

TOP

WORLD TOP



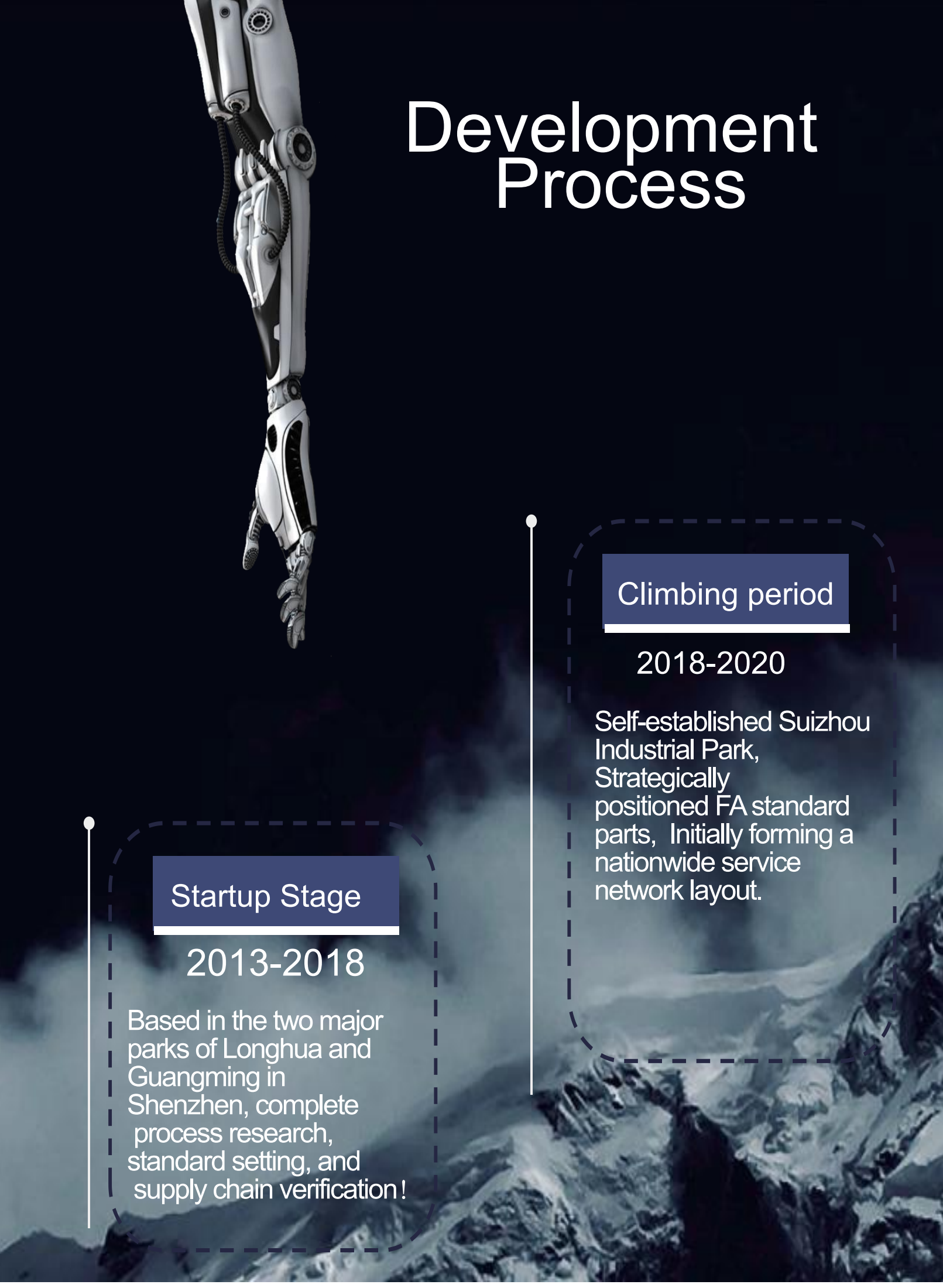
Module Catalog

Company Profile





Shenzhen Tianyi Intelligent Technology Co., Ltd. was established in December 2013. It mainly engages in the research and development, production, sales and service of FA (Factory Automation) precision parts (such as pneumatic components, rolling functional components, high-precision adjustment platforms, four-axis robots, aluminum profiles, industrial robots, industrial control modules, transmitters and sensors), fixtures and automated equipment (lines) for tooling and inspection. By integrating technological innovation, the company's FA (Factory Automation) precision standard parts business helps customers achieve value through its products, making industries more automated and production sites more pleasant. Based on application scenarios, the company's current focus in the tooling and inspection fixtures and automated equipment business is on two major application fields: consumer electronics such as smart phones and wearable devices, and automotive electronics. The company plans to gradually expand its capabilities and serve more application fields in FA factory automation. With a strategic focus on FA precision standard parts and intelligent equipment, it aims to achieve scale through speed and become a leading brand in the industry, contributing to the upgrading of China's industry and the realization of the "Made in China 2025" and "Industry 4.0" blueprints.



Development Process

Startup Stage

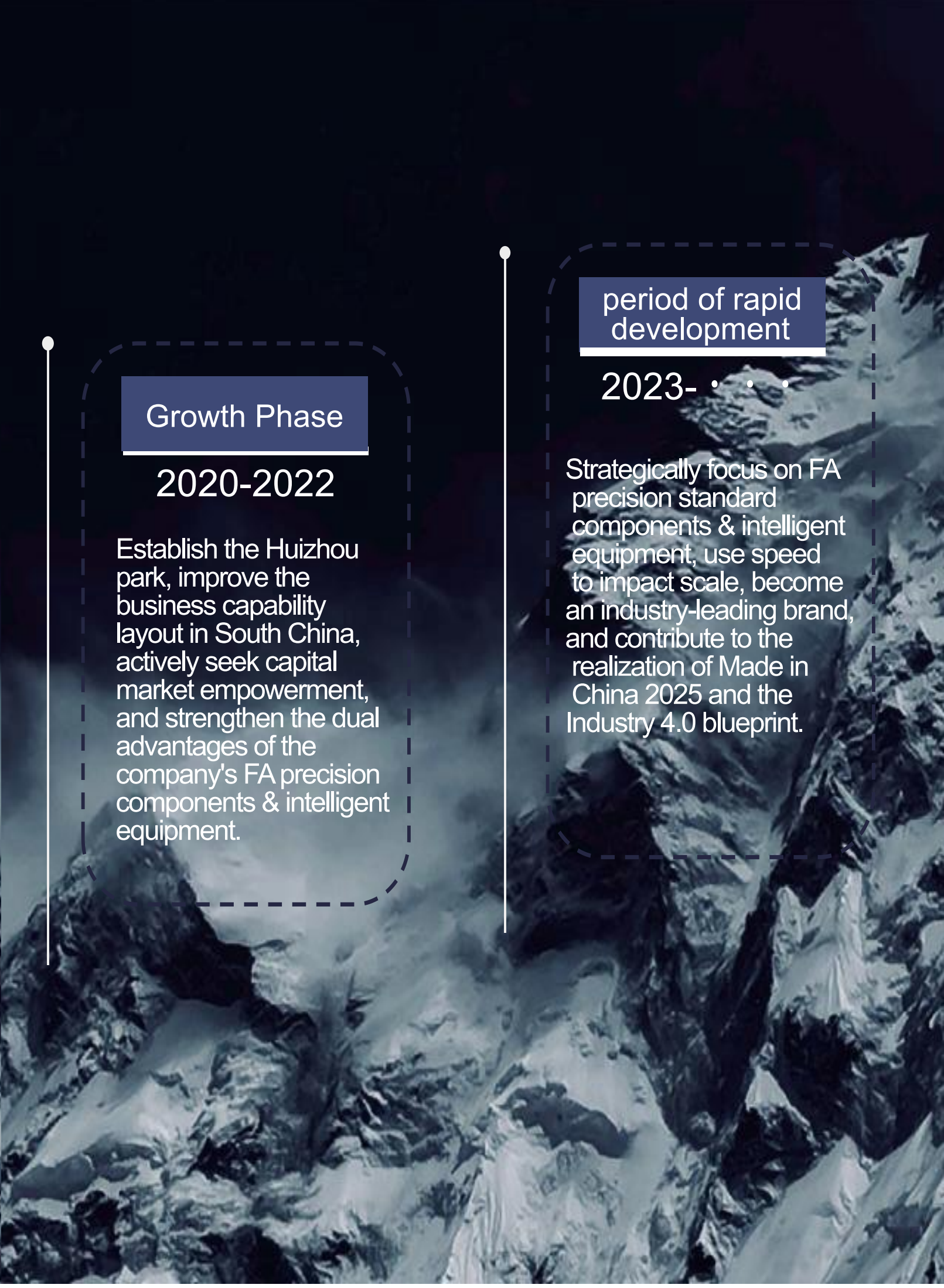
2013-2018

Based in the two major parks of Longhua and Guangming in Shenzhen, complete process research, standard setting, and supply chain verification!

Climbing period

2018-2020

Self-established Suizhou Industrial Park, Strategically positioned FA standard parts, Initially forming a nationwide service network layout.



Growth Phase

2020-2022

Establish the Huizhou park, improve the business capability layout in South China, actively seek capital market empowerment, and strengthen the dual advantages of the company's FA precision components & intelligent equipment.

period of rapid
development

2023- . . .

Strategically focus on FA precision standard components & intelligent equipment, use speed to impact scale, become an industry-leading brand, and contribute to the realization of Made in China 2025 and the Industry 4.0 blueprint.

Product Introduction - Track Inset Type

Products Introduce-Built-in Guide Electric Actuator

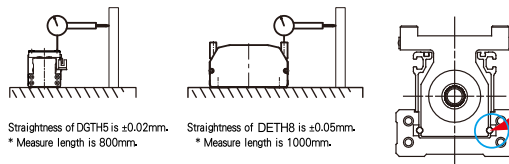
Embedded screw slide rail system The embedded track design significantly improves the straightness at the same height.

Built-in Linear Guide, Flatness and Straightness are Highly Improved



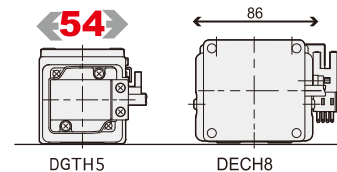
Flat straightness

Built in linear rail design, Straightness and Flatness are highly improved to $\pm 0.02\text{mm}$.



Smaller size

Reduced width that can be fitted in the compact environments



Compare with DECH8 series at same condition(30kg payload.)

Maximum stroke: 1050mm

Repeatability: $\pm 0.01\text{mm}$

Easy assembly

High rigidness

NEW PRODUCT

Rigid reinforcement

Actuator body and carriage are made from steel that can improve the rigidity of body and carriage

Special design with dust prevention function.

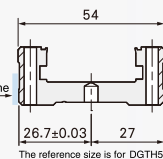
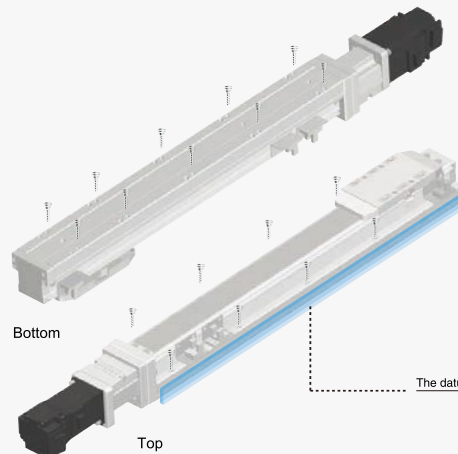
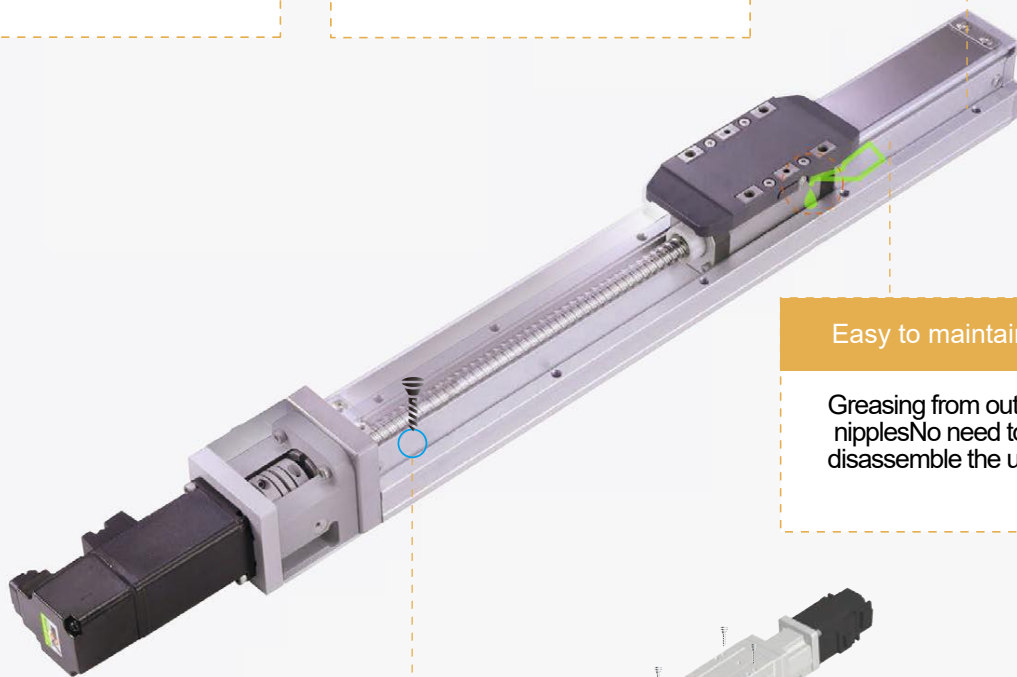
Special steel strip cover sealing design can prevent dirt and foreign objects from penetrating inside.

Easy to maintain

Greasing from outer nipples. No need to disassemble the unit.

Easy assemble

- ① Can be fixed from the top and bottom without removing the cover.
- ② An installation reference surface support is added to the side of the main body.
- ③ There are positioning PIN holes at the bottom of the main body.



Various carriage options

Double Carriage
(Dual Drive Control)Double Carriage
(Single Control)

Extended Carriage

Alignment

Patented greasing hole(optional)

(Industry only) Patented single grease fitting on the slide to lubricate multiple areas which can reduce maintenance overhead and time. Grease fitting can also be tailored to customer specified orientation.



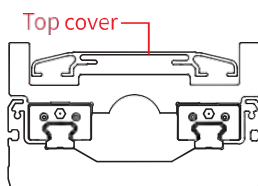
Patented grease fitting design

Copy right ©



High rigidity body and cover

High rigidity mainframe and cover : one piece extruded aluminum structure for optimal rigidity and weight ratio.

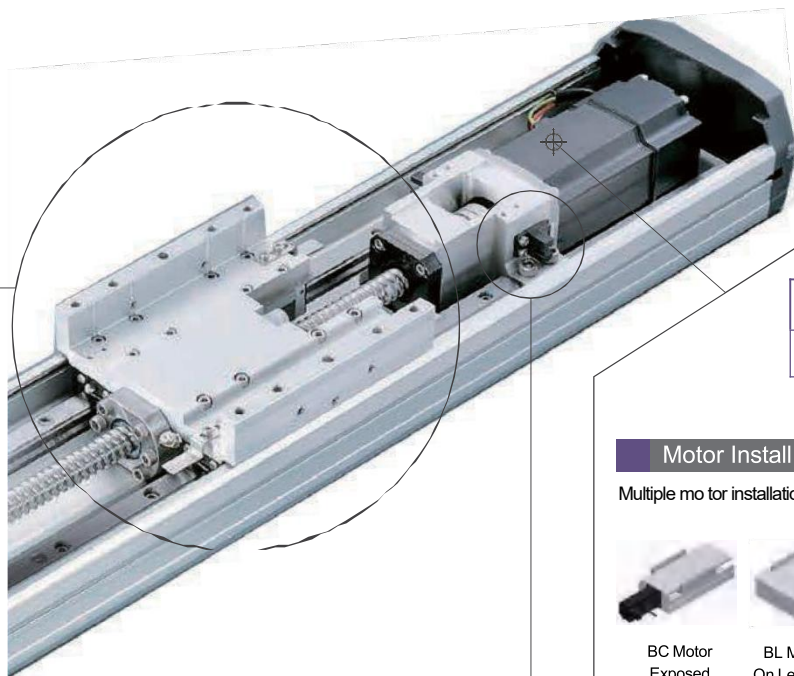


Torsion resist top lid :
Special torsion-resistant top lid design to prevent deformation during long stroke.

Clean room type

CLASS10~1000

Vacuum connector for clean room use.

**Motor brand**

Customer specified servo motor

Motor brand

Standard suitable motor brands

Mitsubishi	Panasonic	Yaskawa	Delta
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Please consult with our sales personnel for other motor specifications.

Motor Install options

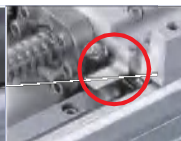
Multiple motor installation positions provides the flexibility for machine design

BC Motor
ExposedBL Motor
On Left SideBR Motor
On Right SideBM Motor
On Lower SideM Motor Hidden
In the Structure**Sensor location**

Optional internal or external SENSOR locations



Internal SENSOR

Internal SENSOR
trigger device

External SENSOR

External SENSOR
trigger device**Ball screw lead**

Can customize screw specification and lead to match different payload and speed requirements

Screw lead pitch	
2	2mm
5	5mm
10	10mm
16	16mm
20	20mm
25	25mm
32	32mm
40	40mm

Various carriage options

Double Carriage
(Dual Drive Control)Double Carriage
(Single Control)

Extended Carriage



Alignment

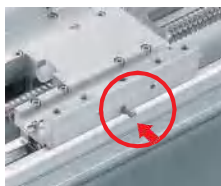
Belt adjusting mechanism

Proprietary dual side adjustment limiter to prevent loosening of belt fixture



Patented greasing hole(optional)

(Industry only) Patented single grease fitting on the slide to lubricate multiple areas which can reduce maintenance overhead and time. Grease fitting can also be tailored to customer specified orientation.

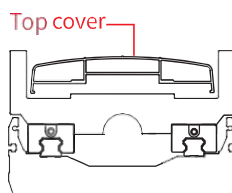


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Patented grease fitting design

High rigidity body and cover

High rigidity mainframe and cover : one piece extruded aluminum structure for optimal rigidity and weight ratio.

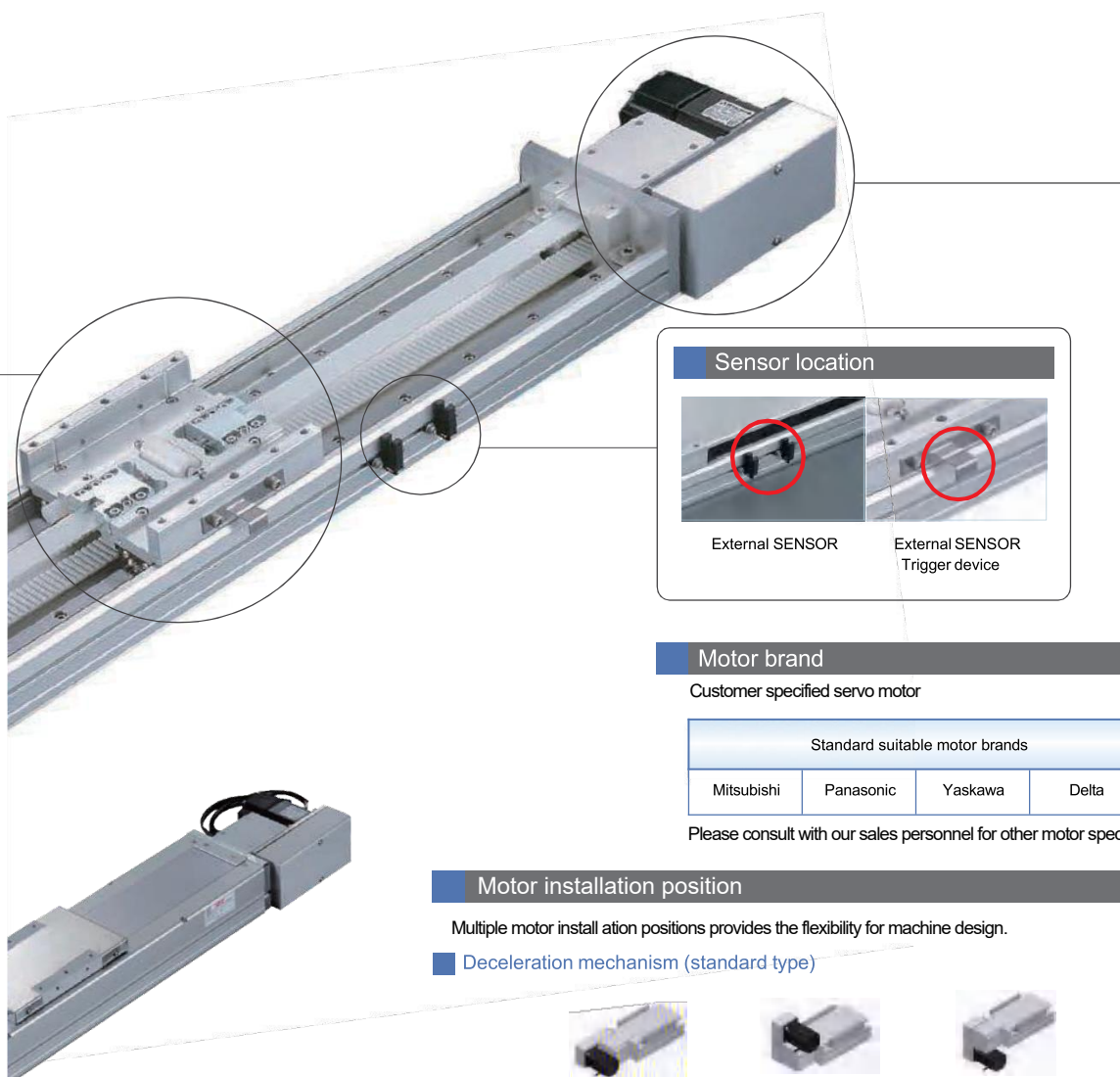


Torsion resist top cover:

Special torsion-resistant top cover design to prevent deformation during long stroke.

Cleanroom type

Vacuum connector for clean room use



Sensor location



External SENSOR

External SENSOR
Trigger device

Motor brand

Customer specified servo motor

Standard suitable motor brands			
Mitsubishi	Panasonic	Yaskawa	Delta

Please consult with our sales personnel for other motor specifications.

Motor installation position

Multiple motor installation positions provides the flexibility for machine design.

Deceleration mechanism (standard type)



L Motor Left



LU Motor Upper Left



LD Motor Lower Left



R Motor Right



RU Motor Upper Right



RD Motor Lower Right

According to the different applications to select the most suitable belt.

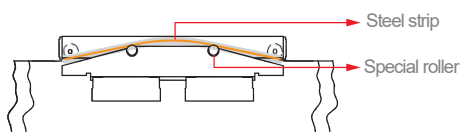
PU belt

Rubber belt

Comparison Table	PU belt	Rubber belt
Specifications	AT5,With steel medh	Rubber belt
Application	Clean room	Normal environment
Advantage	Low dust	Low noise
Drawback	Noisy	Dusty

Steel stripe cover support roller can reduce the particle

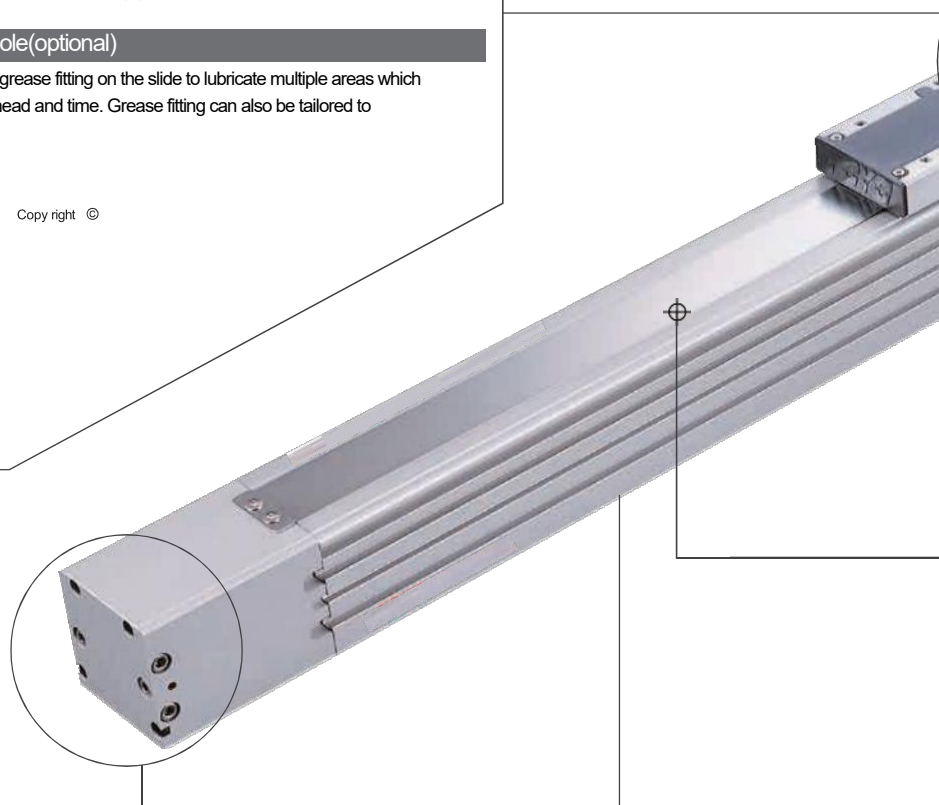
Special support roller design can reduce the particle caused from the steel stripe cover and carriage.

**Patented greasing hole(optional)**

(Industry only) Patented single grease fitting on the slide to lubricate multiple areas which can reduce maintenance overhead and time. Grease fitting can also be tailored to customer specified orientation.



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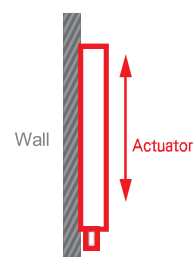
**Adjustable belt tension**

Adjust the belt tension without disassemble the unit.

**Vertical application**

Able to use in vertical application.

Fixed method:
able to mount the unit from top
and bottom side.





Dust-proof steel stripe cover

All series with dust-proof steel stripe cover.

Sensor location

Optional internal or external SENSOR locations



External SENSOR

External SENSOR
Trigger Device

Motor brand

Customer specified servo motor,

Standard suitable motor brands

Mitsubishi	Panasonic	Yaskawa	Delta
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Please consult with our sales personnel for other motor specifications

Motor installation position

Multiple motor installation positions provides the flexibility for machine design



MEMO

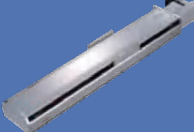
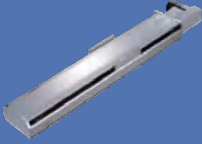
WETB Series

Standard/Belt Type



CONTENTS

Standard/Belt Type

SMAL		The body width is 50mm. Maximum stroke: 8mm13 Maximum load capacity: 10kg			The body width is:170mm. Maximum stroke: 3050mm.....43 Maximum load capacity: 45kg
SMAL		The body width is 60mm. Maximum stroke: 8mm19 Maximum load capacity: 15kg			The body width is:220mm. Maximum stroke: 3500mm.....47 Maximum load capacity: 85kg
MEDIUM		The body width is:102mm. Maximum stroke: 2550mm.....27 Maximum load capacity: 10kg			
MEDIUM		The body width is:102mm. Maximum stroke: 1750mm.....31 Maximum load capacity: 22kg			
MEDIUM		The body width is:135mm. Maximum stroke: 3050mm.....38 Maximum load capacity: 25kg			

WETB Belt Actuator

Environment	Driven Mode	Specification	Reducer Mechanism	Motor Output (w)	Width(mm)	Repeatability(mm)	Belt Spec		Maximum Payload(kg)		Maximum Speed *1 (mm/s)	
							Belt Width(mm)	Lead(mm)	Horizontal	Vertical		
Standard	Timing Belt	WETB5	No	42M (Stepping Motor)	50	±0.04	9	32	10		267	
				100W				40	3		800	
		WETB6		57M (Stepping Motor)	65		40	15		333		
				100W			40	3		1000		
		WETB10	Yes	100W	102		15	32	10		1200	
		WETB12		200W	102		15	40	22		1400	
		WETB14M		200W	135		22	40	25		2000	
		WETB17M		400W	170		30	40	45		2000	
		WETB22M		750W	220		50	40	85		2000	

*1 The highest speed is based on the maximum servo motor's rpm (3000).
The highest speed is based on the maximum stepping motor's rpm (500).

Stroke(mm) & Maximum Speed(mm/s)																									Speed	Page	
Stroke 50	300	450	600	800	900	1050	1200	1350	1500	1650	1800	1950	2100	2150	2300	2550	2600	2750	3050	3150	3300	3500	3600	3750	3900		4050
267																											59
800																											
333																											65
1000																											
1200																											71
1400																											76
2000																											
2000																											81
2000																											86



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **267mm/s**

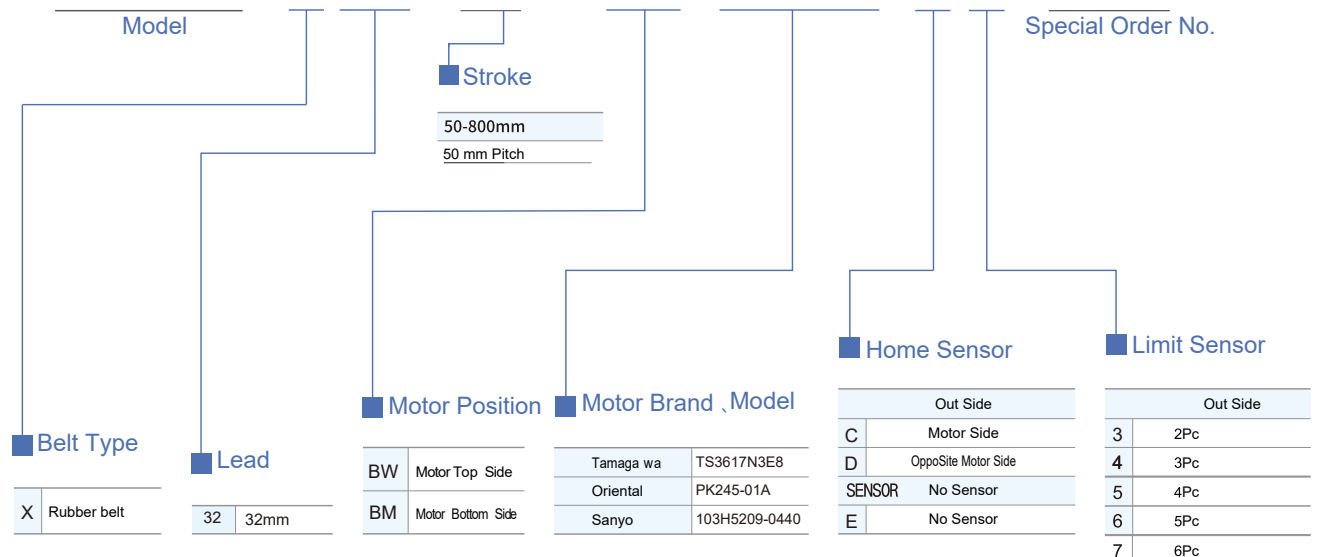
Maximum Static Torque **0.32 N.m.**

Belt Width **9 mm**

Linear Guide **24X8,5 -1 piece**

Ordering Method

WETB5- X32- 50 - BM- 42-MC4- 0001



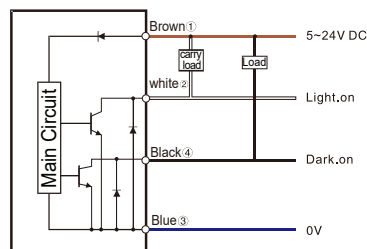
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		32
	Maximum Speed (mm/s)		267
	Maximum Payload	Horizontal (kg)	10
		Vertical (kg)	
	Rated Thrust (N)		42
Parts	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch
	Maximum Static Torque (N.m.)		0.32
	Belt Width		9
	High Rigidity Linear Guide (mm)		W24XH8.5
	Home Sensor	Outside	672(NPN/PNP)

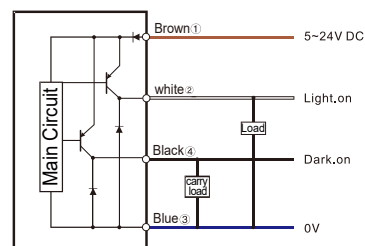
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

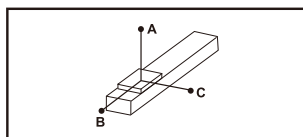
DC four-wire NPN output



DC four-wire PNP output

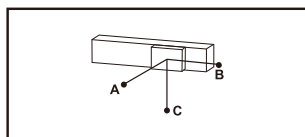


Allowable Overhang



(Unit : N.m)

Horizontal Installation	A	B	C
5kg	323	23	52
7kg	208	15	34
10kg	121	9	20



(Unit : N.m)

Wall Installation	A	B	C
5kg	47	21	299
7kg	31	13	191
10kg	18	8	109

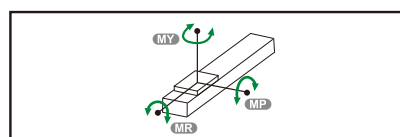
*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions.

*Data information is not for ceiling-mount inverse use.

*Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit : N.m)

MY	16
MP	20
MR	19

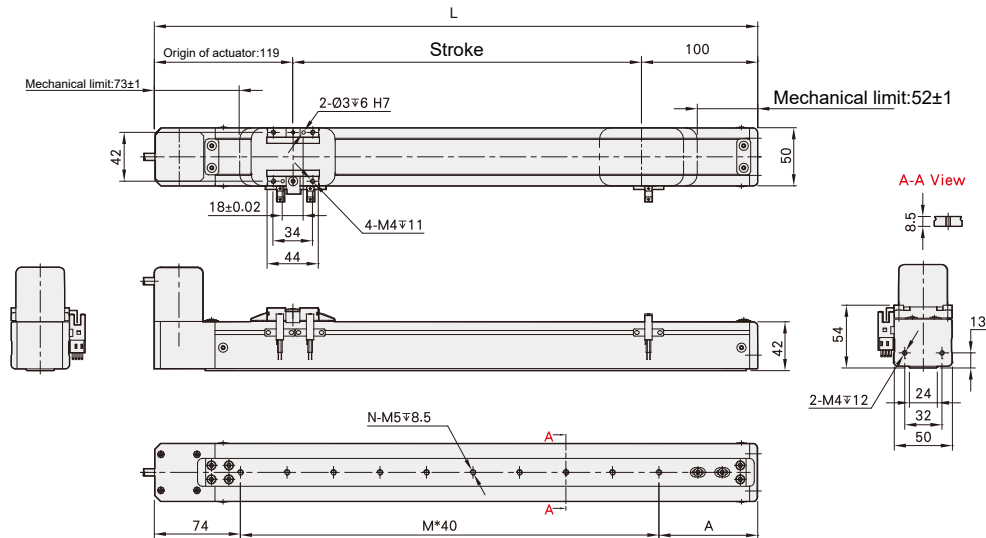
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.32	DC24V	2-phase-TS3617N3E8	CD-2D34M Resolution200/400/800/1600
Oriental	0.32	Single-phase 100V	2-phase-PK245-01A	UDK2112 Resolution200/400/800/1600/3200
Sanyo	0.32	DC24V	2-phase-103H5209-0440	US1D200P10 Resolution200/400/800/1600/3200

Motor Top Side / Motor Bottom Side

BW Motor Top Side

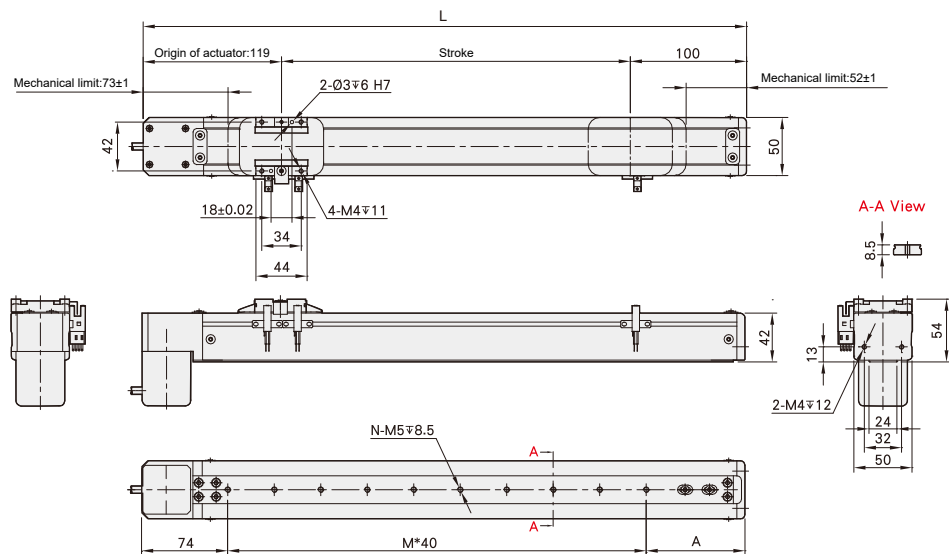
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **2000mm/s**

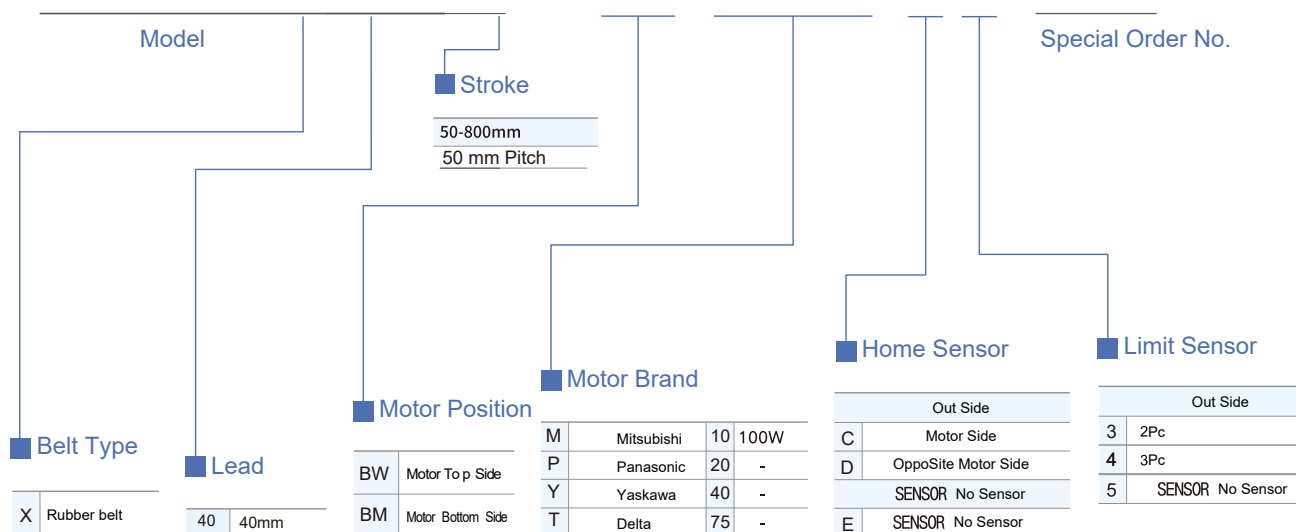
Motor Output **100W**

Belt Width **9 mm**

Linear Guide **24X8.5
~1 piece**

Ordering Method

WETB5-X40-50-BM-M-10 C4-0001



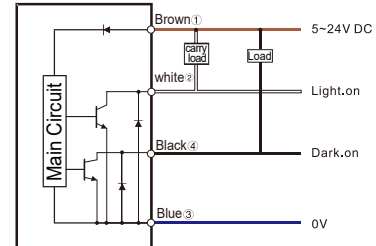
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		800
	Maximum Payload	Horizontal (kg)	3
		Vertical (kg)	
	Rated Thrust (N)		42
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch
Parts	AC Servo Motor Output (W)		100
	Belt Width		9
	High Rigidity Linear Guide (mm)		W24XH8.5
	Home Sensor	Outside	672(NPN/PNP)

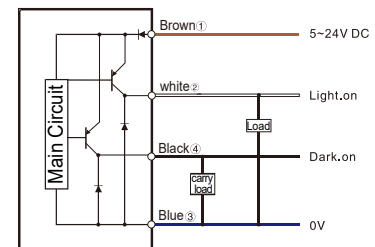
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

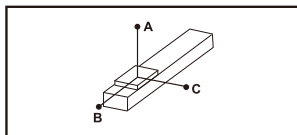
DC four-wire NPN output



DC four-wire PNP output

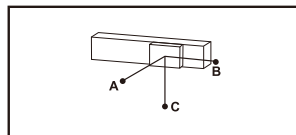


Allowable Overhang



(Unit : mm)

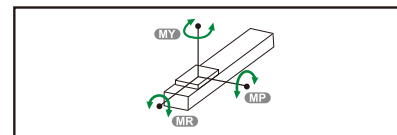
Horizontal Installation	A	B	C
2kg	323	61	112
3kg	209	39	72



(Unit : mm)

Wall Installation	A	B	C
2kg	105	57	303
3kg	67	36	195

Static Loading Moment



(Unit : mm)

MY	16
MP	20
MR	19

*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions

*Data information is not for ceiling-mount inverse use.

*Contact us for the details if you want to apply ceiling-mount inverse usage.

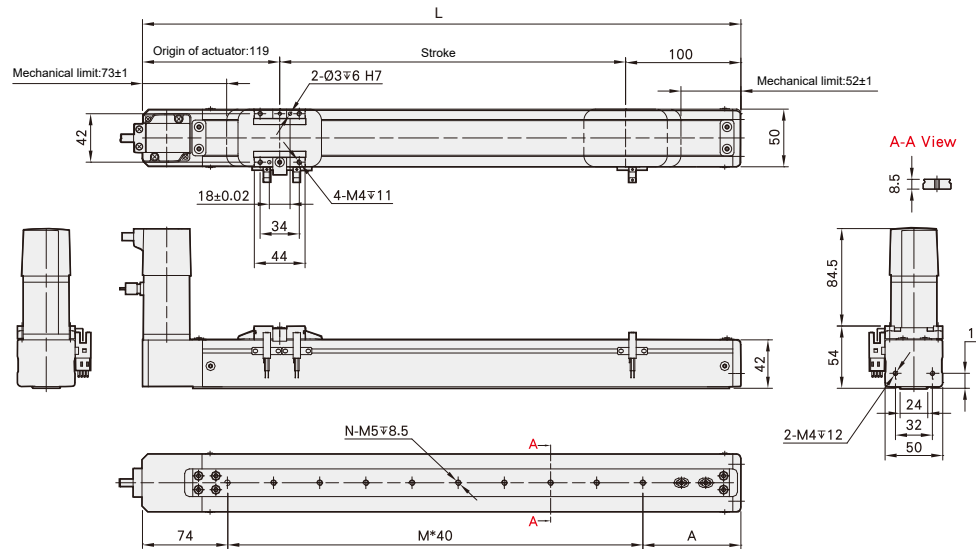
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Top Side / Motor Bottom Side

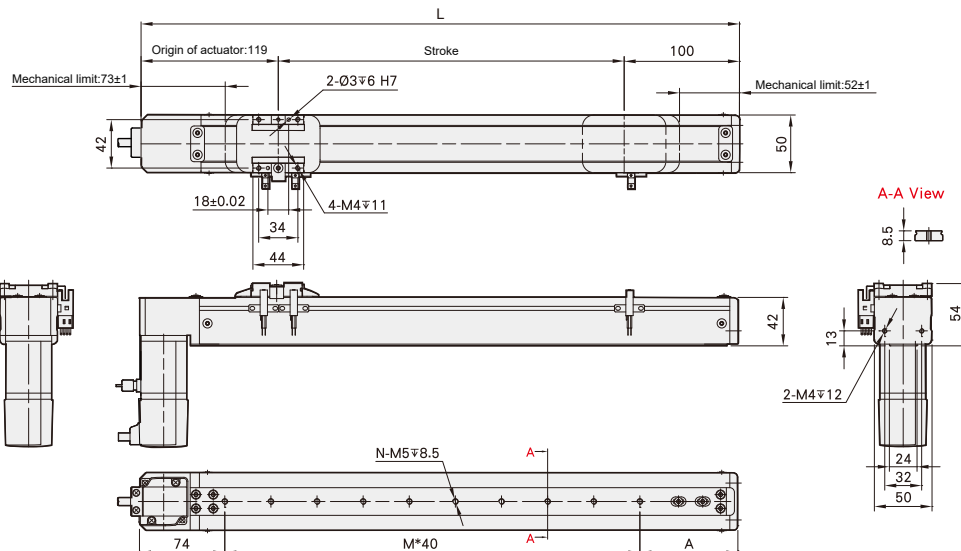
BW Motor Top Side

Unit : mm



BM Motor Bottom Side

Unit : mm





The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **333mm/s**

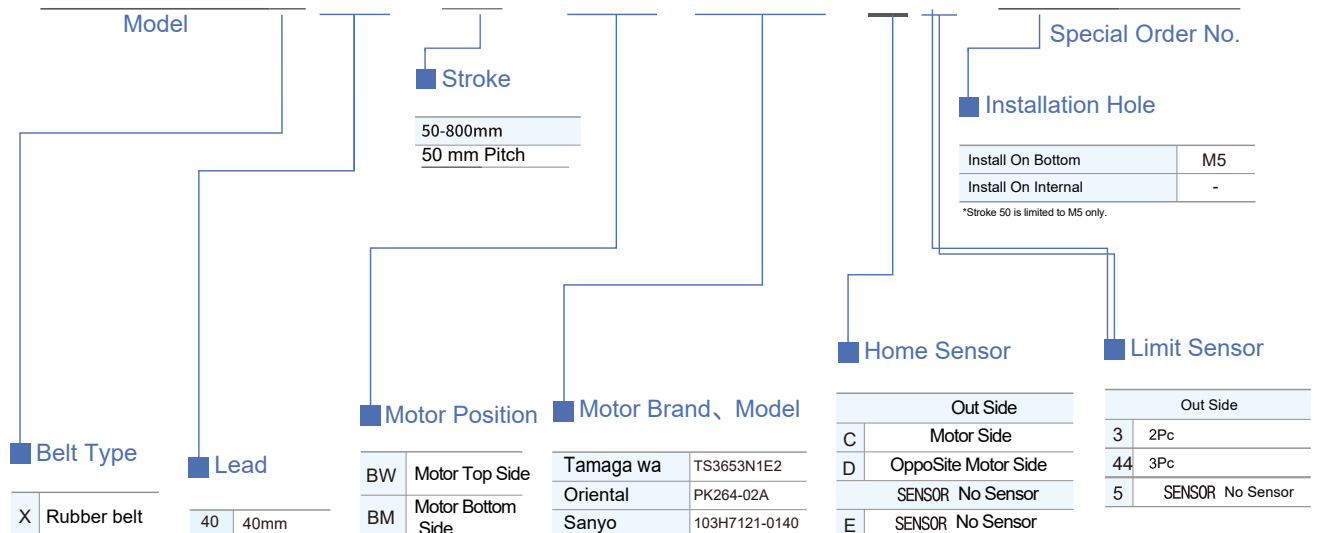
Maximum Static Torque **0.39 N.m.**

Belt Width **12 mm**

Linear Guide **42X9.5 -1 piece**

Ordering Method

WETB6-X40-50-BM-57-MC4-M5-0001



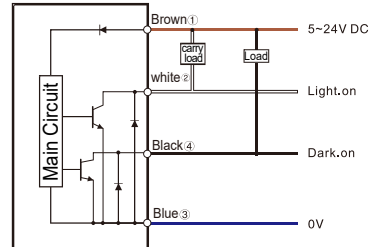
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		333
	Maximum Payload	Horizontal (kg)	15
		Vertical (kg)	51
	Rated Thrust (N)		51
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch
Parts	Maximum Static Torque (N.m.)		0.39
	Belt Width		12
	High Rigidity Linear Guide (mm)		W42XH9.5
	Home Sensor	Outside	672(NPN/PNP)

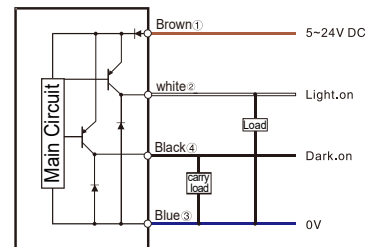
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

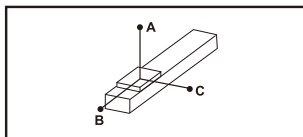
DC four-wire NPN output



DC four-wire PNP output

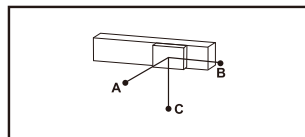


Allowable Overhang



(Unit : N.m)

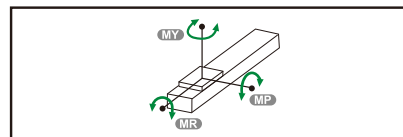
Horizontal Installation	A	B	C
5kg	620	65	165
10kg	253	29	73
15kg	126	16	42



(Unit : N.m)

Wall Installation	A	B	C
5kg	151	59	582
10kg	66	26	532
15kg	38	15	111

Static Loading Moment



(Unit : N.m)

MY	70
MP	80
MR	75

*The torque value in the chart indicate the center of gravity.
 *Operation life is 5,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

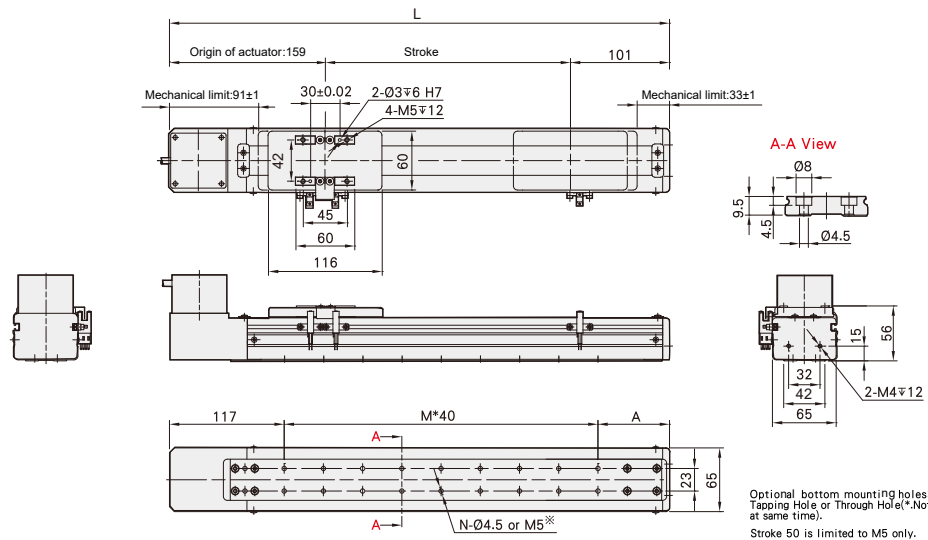
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.39	DC24V	2-phase-TS3653N1E2	CD-2D34M Resolution200/400/800/1600
Oriental	0.39	DC24V	2-phase-PK264-02A	CMD2120P Resolution200/400/800/1600/3200
Sanyo	0.39	DC24V	2-phase-103H7121-0140	US1D200P10 Resolution200/400/800/1600/3200

Motor Top Side / Motor Bottom Side

BW Motor Top Side

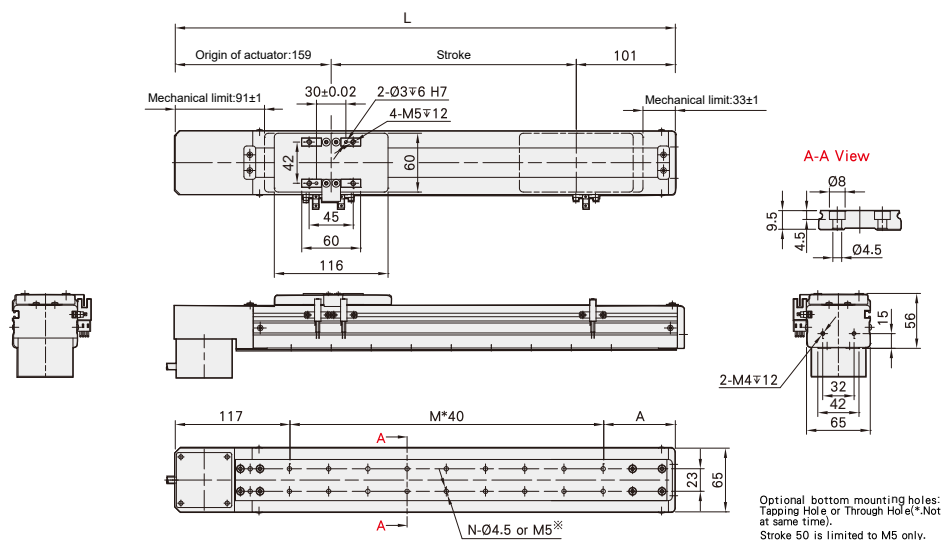
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.5	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.5	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **2000mm/s**

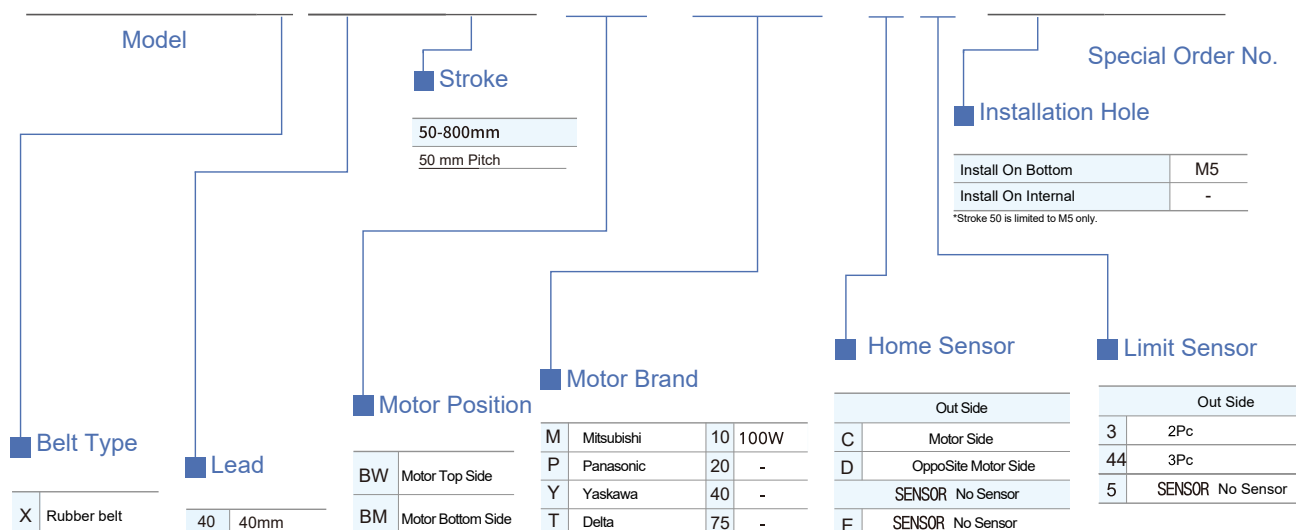
Motor Output **100W**

Belt Width **12 mm**

Linear Guide **42X9.5
-1 piece**

Ordering Method

WETB6-X 40-100-BM-M-10C4-M5-0001



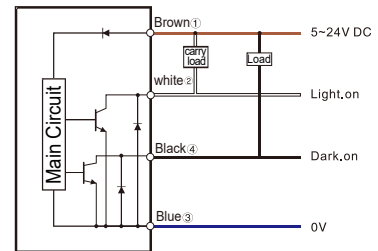
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		1000
	Maximum Payload	Horizontal (kg)	3
		Vertical (kg)	
	Rated Thrust (N)		42
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch
Parts	AC Sevo Motor Output (W)		100
	Belt Width		12
	High Rigidity Linear Guide (mm)		W42XH9.5
	Home Sensor	Outside	672(NPN/PNP)

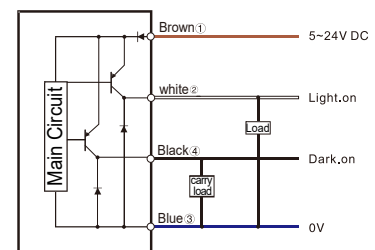
*Acceleration and deacceleration value is set 0.4 second.

Sensor Layout

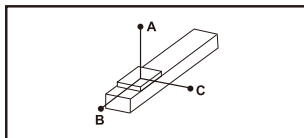
DC four-wire NPN output



DC four-wire PNP output

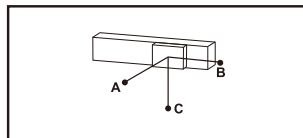


Allowable Overhang



(Unit : mm)

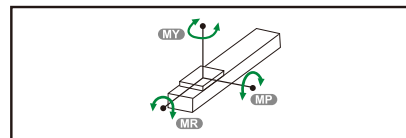
Horizontal Installation	A	B	C
2kg	520	150	254
3kg	340	97	165



(Unit : mm)

Wall Installation	A	B	C
2kg	238	140	488
3kg	155	91	319

Static Loading Moment



(Unit : mm)

MY	70
MP	80
MR	75

*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions

*Data information is not for ceiling-mount inverse use.

*Contact us for the details if you want to apply ceiling-mount inverse usage.

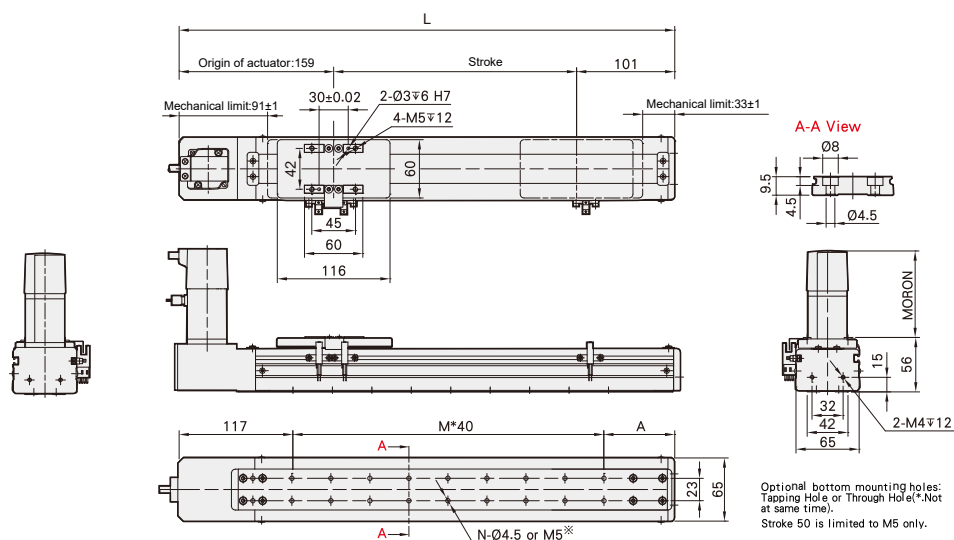
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Top Side / Motor Bottom Side

BW Motor Top Side

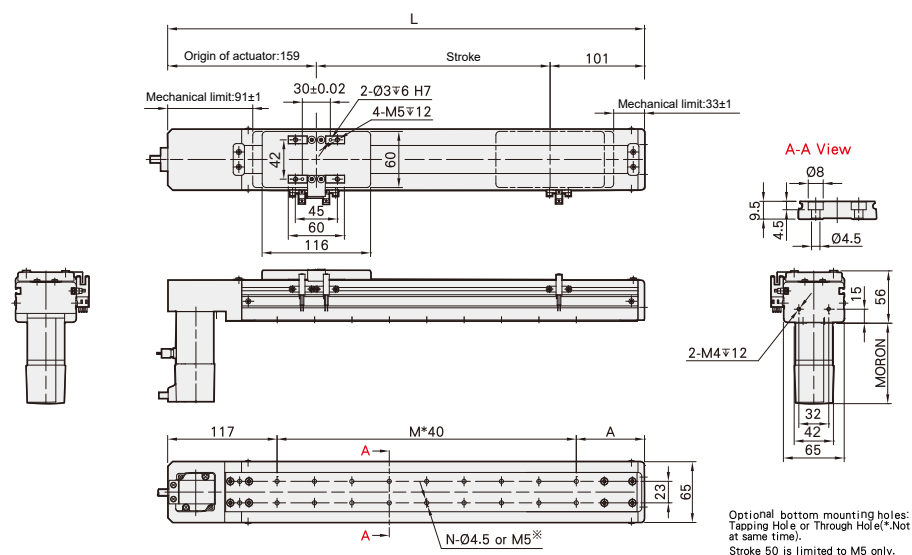
Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.5	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

BM Motor Bottom Side

Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.5	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **2550mm**

Maximum Speed **1600mm/s**

Motor Output **100W**

Belt Width **15 mm**

Linear Guide **20X18**
-1 piece

Ordering Method

WETB10 - L 32-100-L - M-10C 4 -0001

Model

Special Order No.

Stroke

50-2550mm
50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	100W
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

Limit Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
SENSOR No Sensor	
E	SENSOR No Sensor

Out Side	
3	2Pc
44	3Pc
5	SENSOR No Sensor

Belt Type

L	Clean belt
X	Rubber belt

Lead

32 32mm

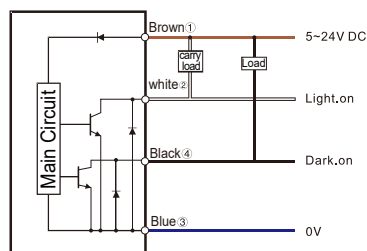
Specification

Spec	Repeatability (mm)	± 0.04	
	Lead (mm)	32	
	Maximum Speed (mm/s)	1400	
	Maximum Payload	Horizontal (kg)	10
		Vertical (kg)	
	Rated Thrust (N)	61	
	Stroke Pitch (mm)	50-2550mm/5050 mm Pitch	
Parts	AC Servo Motor Output (W)	100	
	Belt Width	15	
	High Rigidity Linear Guide (mm)	W20XH18	
	Home Sensor	Outside	672(NPN)

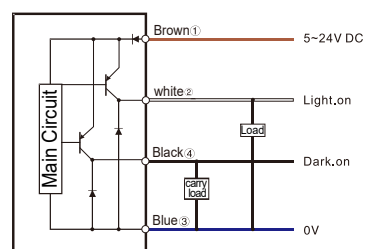
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

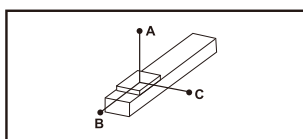
DC four-wire NPN output



DC four-wire PNP output

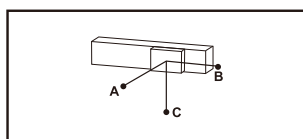


Allowable Overhang



(Unit : mm)

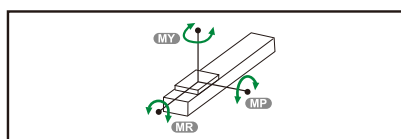
Horizontal Installation	A	B	C
5kg	495	152	128
8kg	301	91	77
10kg	236	71	60



(Unit : mm)

Wall Installation	A	B	C
4kg	162	192	625
7kg	89	106	347
10kg	60	71	236

Static Loading Moment



(Unit : mm)

MY	110
MP	110
MR	120

*The torque value in the chart indicate the center of gravity.

*Operation life is 10,000km when the product is using under the specified conditions.

*Data information is not for ceiling-mount inverse use.

*Contact us for the details if you want to apply ceiling-mount inverse usage.

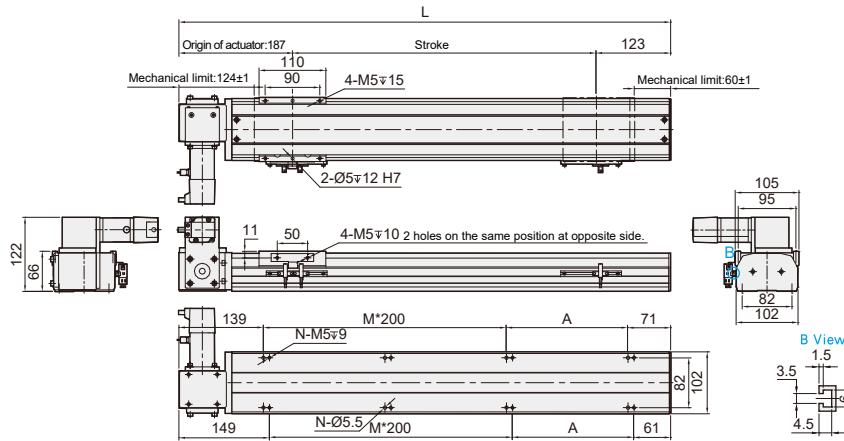
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

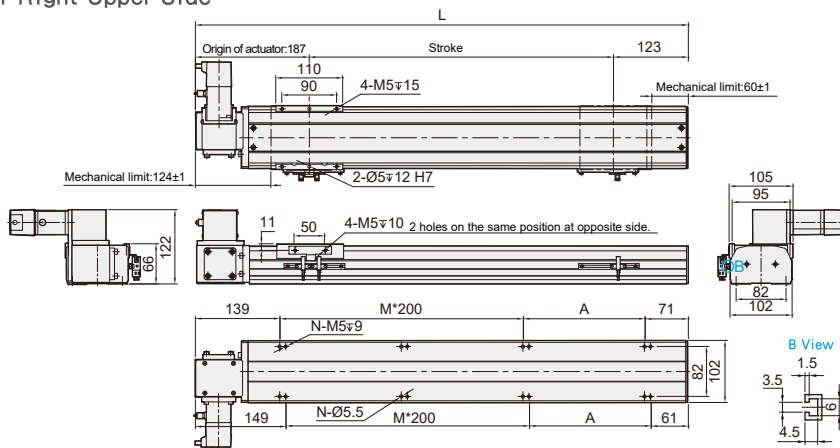


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	6.37	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94

stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360	2410	2460	2510	2560	2610	2660	2710	2760	2810	2860
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72	21.14	21.56	21.98	22.4	22.82	23.24	23.66	24.08	24.5	24.92	25.34	25.76	26.18	26.6	27.02	27.44

RU Motor Right Upper Side

Unit : mm



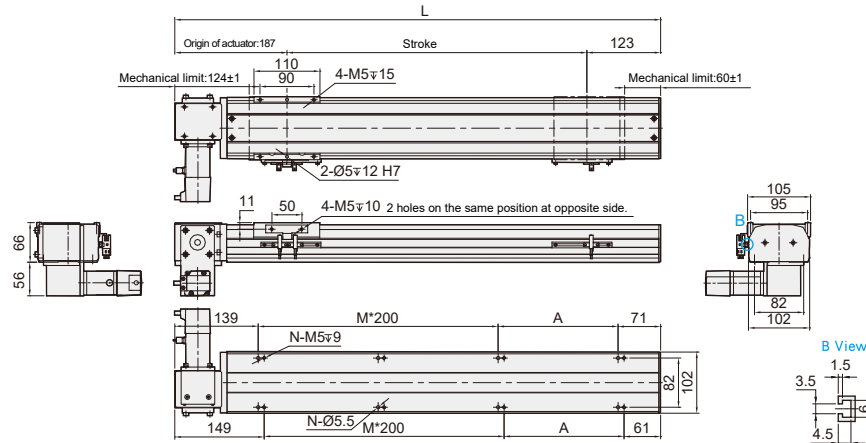
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	6.37	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94

stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360	2410	2460	2510	2560	2610	2660	2710	2760	2810	2860
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72	21.14	21.56	21.98	22.4	22.82	23.24	23.66	24.08	24.5	24.92	25.34	25.76	26.18	26.6	27.02	27.44

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

單位 Unit : mm

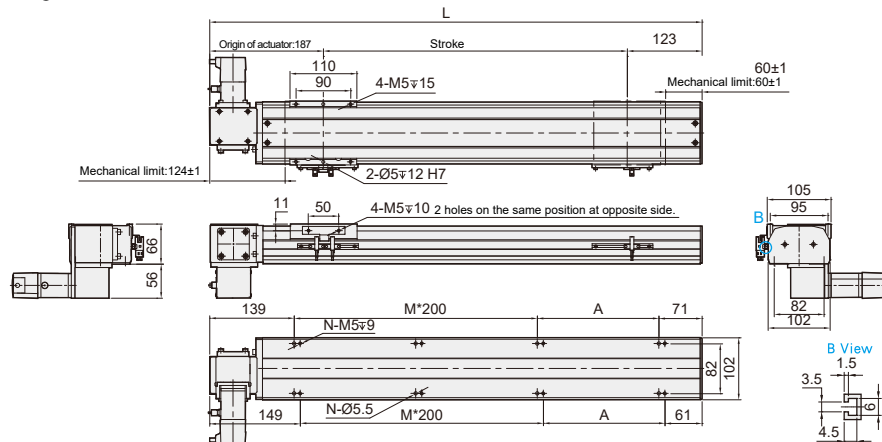


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	6.37	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94

stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360	2410	2460	2510	2560	2610	2660	2710	2760	2810	2860
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72	21.14	21.56	21.98	22.4	22.82	23.24	23.66	24.08	24.5	24.92	25.34	25.76	26.18	26.6	27.02	27.44

RU Motor Right Lower Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	6.37	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94

stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360	2410	2460	2510	2560	2610	2660	2710	2760	2810	2860
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72	21.14	21.56	21.98	22.4	22.82	23.24	23.66	24.08	24.5	24.92	25.34	25.76	26.18	26.6	27.02	27.44

MEMO

Maximum Stroke **1750mm**Maximum Speed **4000mm/s**Maximum Output **200W**Belt Width **16mm**Linear Guide **15x12.5
-2piece**

Ordering Method

WETB12 - L 40 - 100 - L - P20 - C 4 - 0001

Model

Special Order No.

Stroke

50-3050mm

50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	200W
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
SENSOR No Sensor	
E	SENSOR No Sensor

Limit Sensor

Out Side	
3	2Pc
44	3Pc
5	SENSOR No Sensor

Belt Type

L	Clean belt
X	Rubber belt

Lead

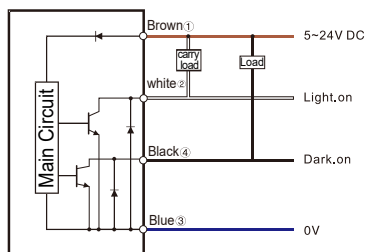
40 40mm

Specification

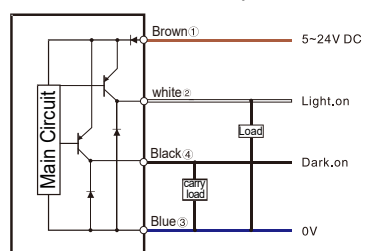
Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		1600
	Maximum Payload	Horizontal (kg)	22
		Vertical (kg)	
	Rated Thrust (N)		105
Parts	Stroke Pitch (mm)		100-1750mm/50pitch
	AC Servo Motor Output (w)		200W
	Belt Width		16
	High Rigidity Linear Guide (mm)		15×12.5
	Home Sensor	Outside	672(NPN/PNP)

Sensor Layout

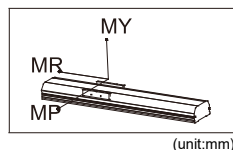
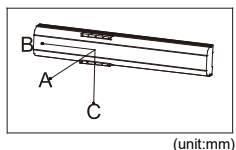
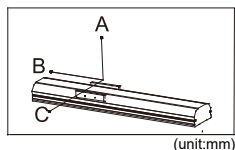
DC four-wire NPN output



DC four-wire PNP output



Allowable Overhang



Horizontal Installation	A	B	C	Wall Installation	A	B	C
5kg	905	325	285	5kg	285	325	905
13kg	375	145	125	13kg	125	145	375
22kg	205	75	60	22kg	60	75	205

Static Loading Moment	
MY	150
MP	150
MR	130

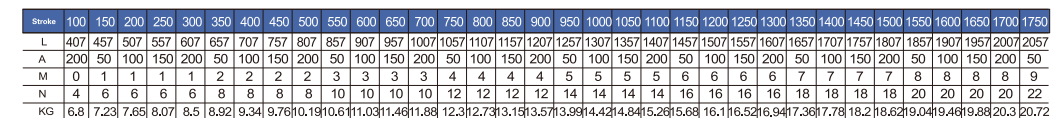
* The torque value in the chart indicate the center of gravity.

* Operation life is 10,000km when the product is using under the specified conditions.

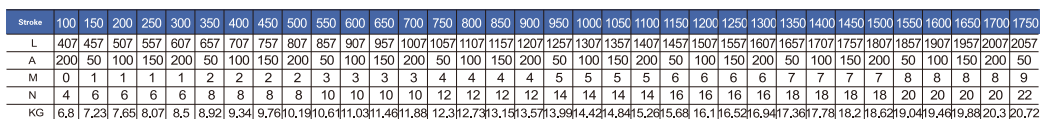
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage AC-V	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MSMD022G1U	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B

(Unit : mm)

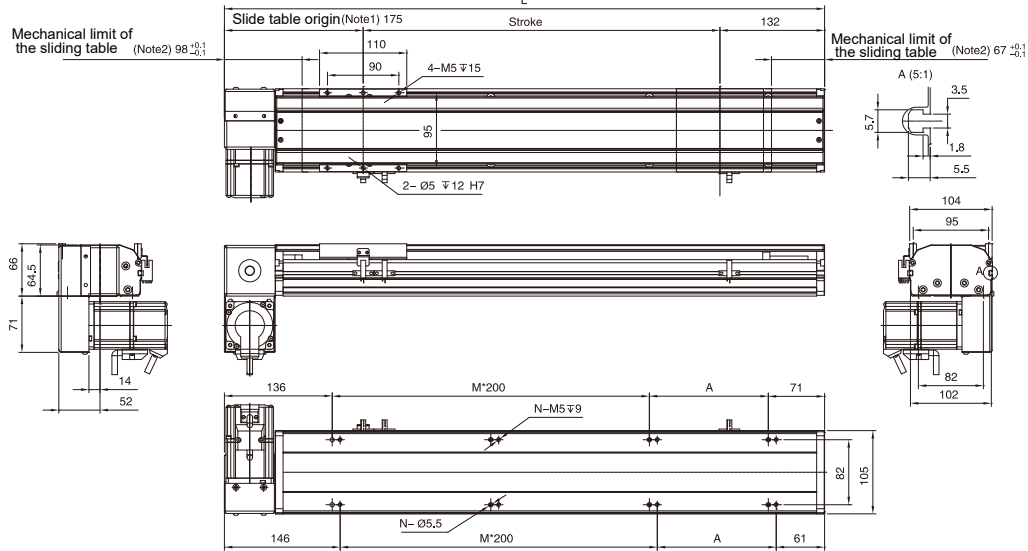


(Unit : mm)



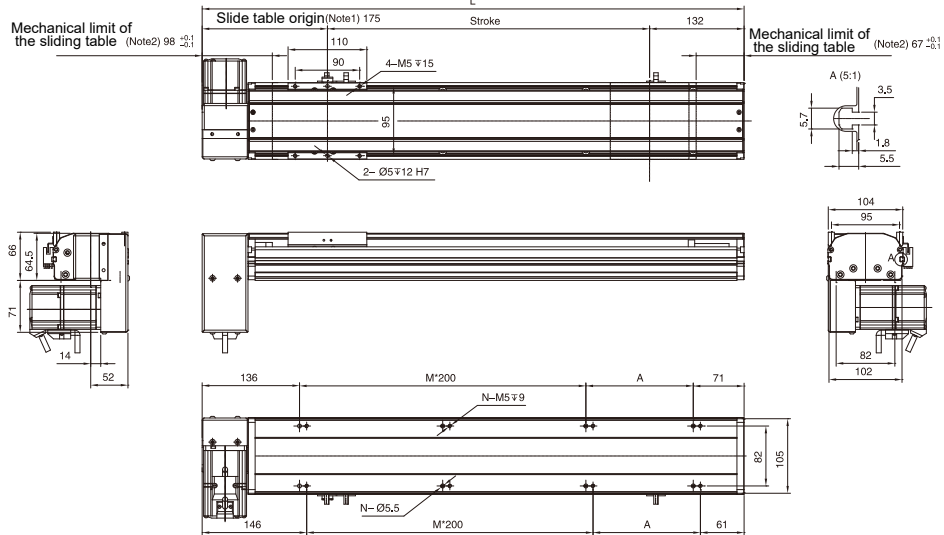
LD Motor Lower Left

(Unit : mm)



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

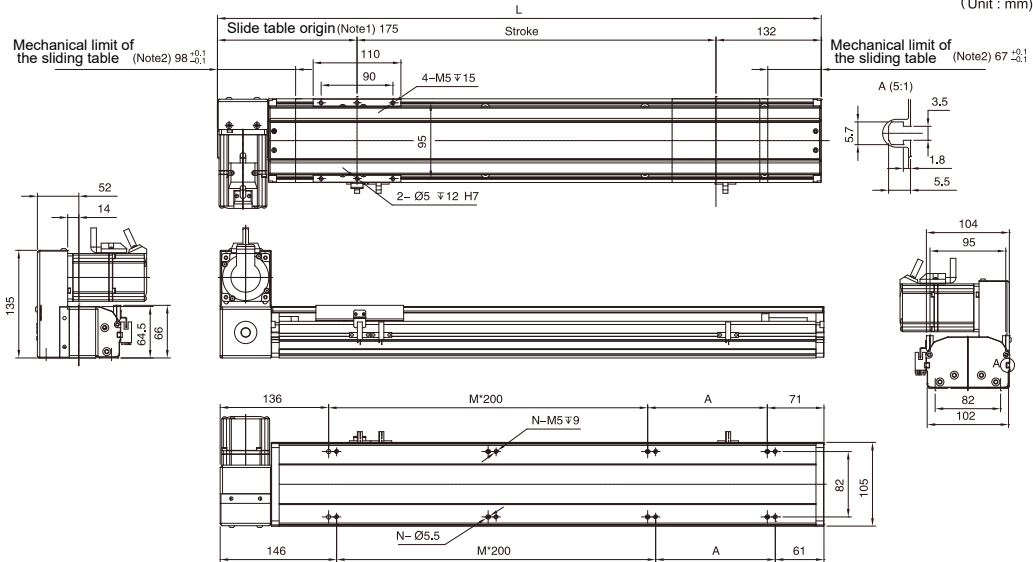
RD Motor Lower Right



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	8	8	8	8	9
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

LU Motor Upper Left

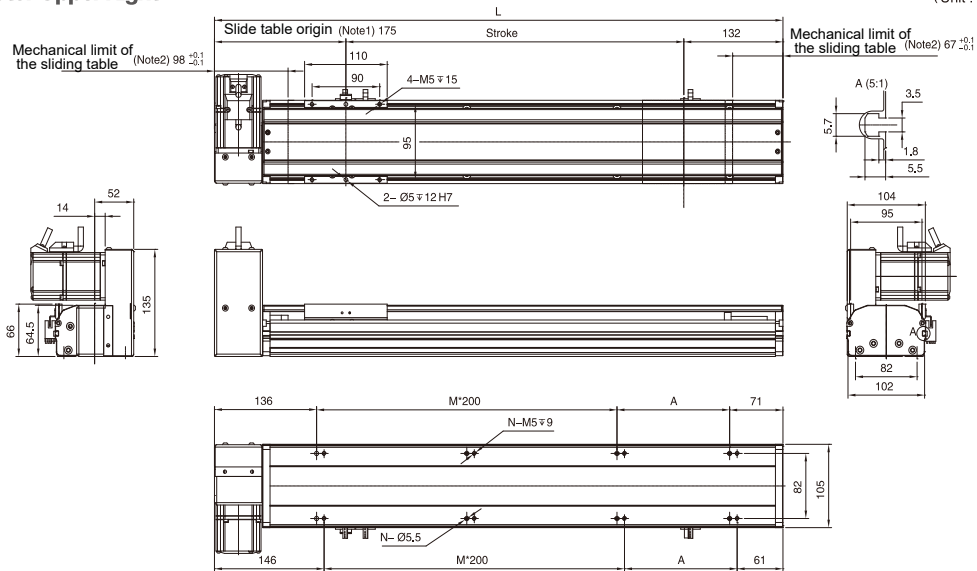
(Unit : mm)



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8	9	9
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

RU Motor Upper Right

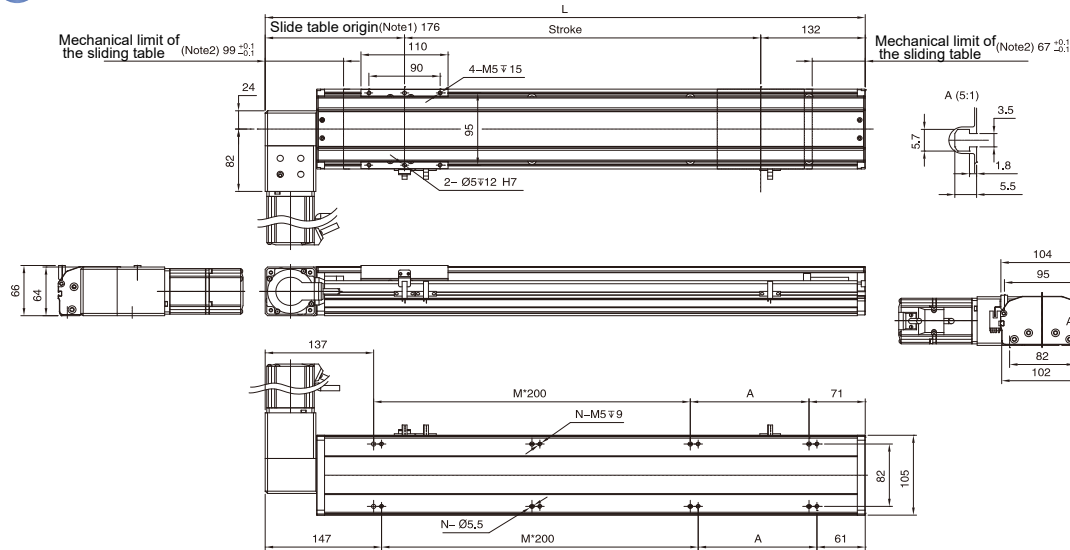
(Unit : mm)



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8	9	9
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

CL Motor Mounted To The Left

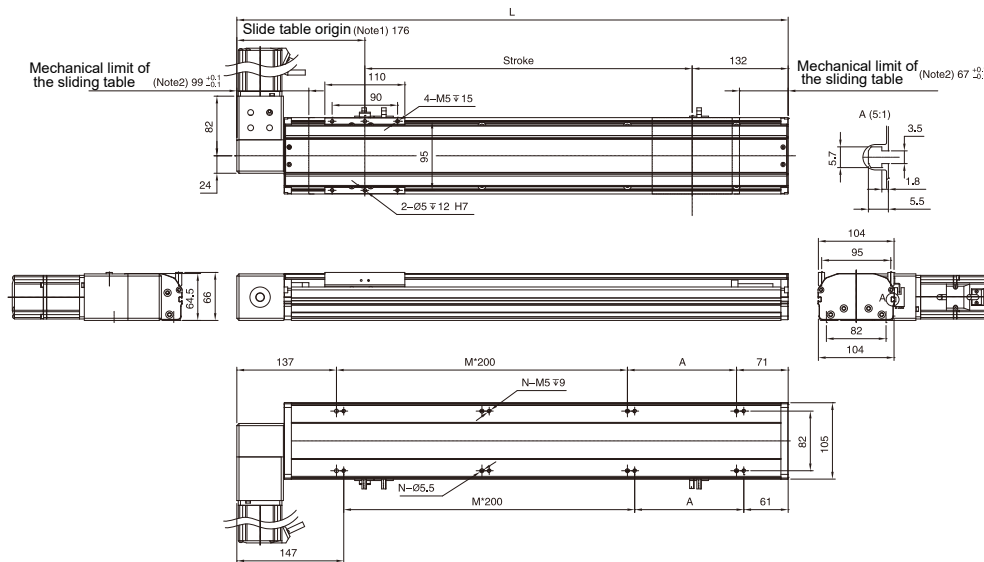
(Unit : mm)



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008	2058
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

CR Motor Mounted To The Right

(Unit : mm)



Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008	2058
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22
KG	6.8	7.23	7.65	8.07	8.5	8.92	9.34	9.76	10.19	10.61	11.03	11.46	11.88	12.3	12.73	13.15	13.57	13.99	14.42	14.84	15.26	15.68	16.1	16.52	16.94	17.36	17.78	18.2	18.62	19.04	19.46	19.88	20.3	20.72

MEMO



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3050mm**

Maximum Speed **2000mm/s**

Motor Output **200W**

Belt Width **22 mm**

Linear Guide **15X12.5
-2 piece**

Ordering Method

WETB14M-L 40-100-L - M-20C4 - 0001

Model

Special Order No.

Stroke

50-3050mm
50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	200W
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Out Side
3	2Pc
44	3Pc
5	No Sensor

Belt Type

L	Clean belt
X	Rubber belt

Lead

40 40mm

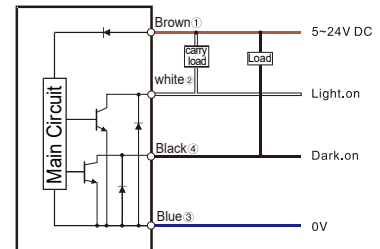
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal (kg)	25
		Vertical (kg)	
	Rated Thrust (N)		100
	Stroke Pitch (mm)		50-3050mm/50 50 mm Pitch
Parts	AC Servo Motor Output (W)		200
	Belt Width		22
	High Rigidity Linear Guide (mm)		W15XH12.5
	Home Sensor	Outside	672(NPN/PNP)

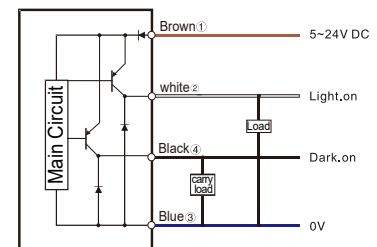
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

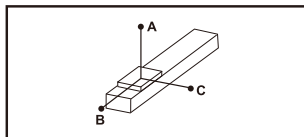
DC four-wire NPN output



DC four-wire PNP output

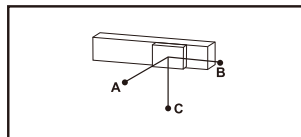


Allowable Overhang



(Unit : N.m)

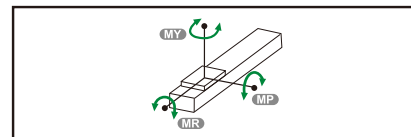
Horizontal Installation	A	B	C
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197



(Unit : N.m)

Wall Installation	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

Static Loading Moment



(Unit : N.m)

MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions
 *Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

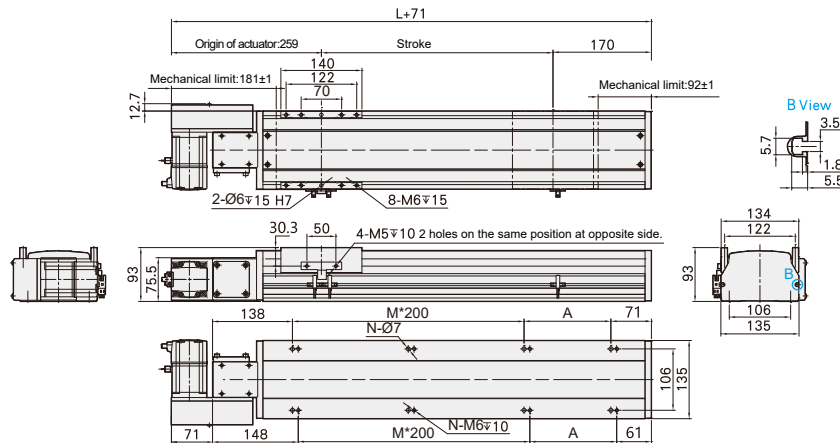
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

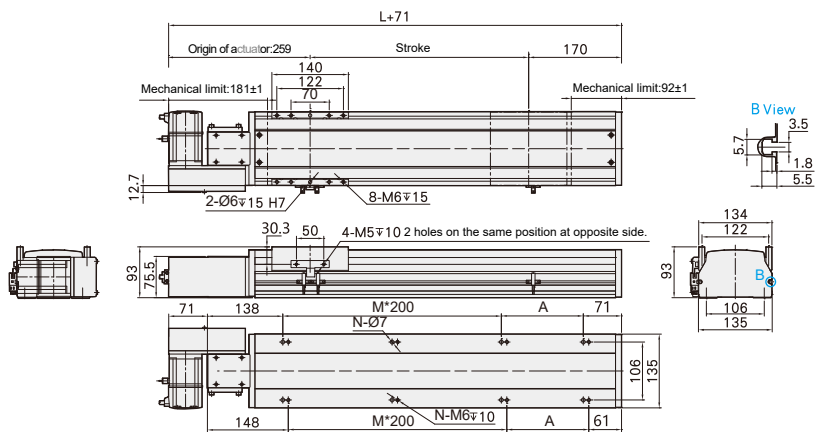


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409							
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	15	15	15	15	15	15	
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	34	34	34	34	34	34	
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9		

R 馬達右折 Motor Right Side

Unit : mm



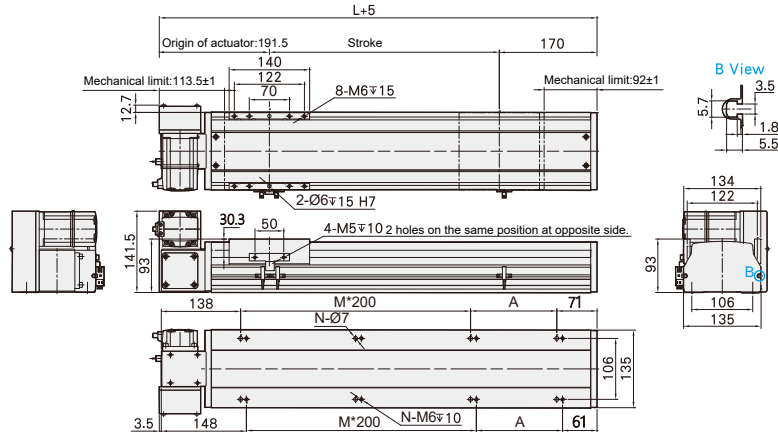
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

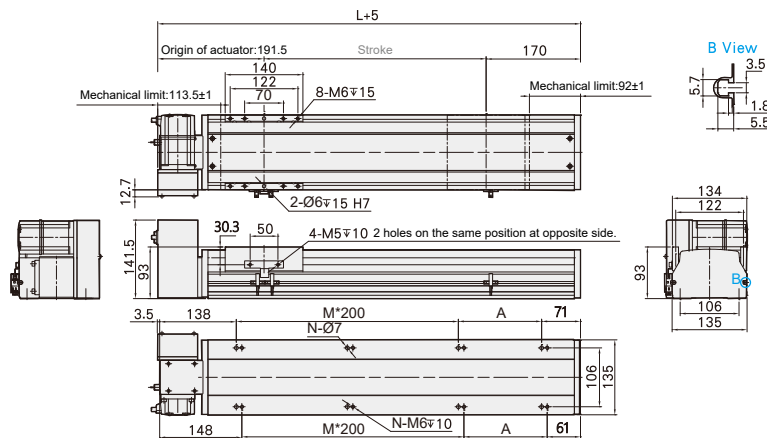
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9
stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409	
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	
N	20	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	32	32	32	32	34	34	34	34	
KG	24.5	25.1	25.7	26.2	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	

RU Motor Right Upper Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	0	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409
A	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9

LD Motor Left Lower Side

Technical drawing of the B View of a mechanical assembly, showing front, side, and end views with dimensions and labels.

Front View (Top):

- Overall length: $L+5$
- Origin of actuator: 191.5
- Stroke: 170
- Mechanical limit: 113.5±1
- Mechanical limit: 92±1
- Dimensions: 140, 122, 70
- Feature: 8-M6 ∇ 15
- Feature: 2- $\varnothing 6 \nabla 15$ H7

Side View (Bottom):

- Overall height: 93
- Dimensions: 65.5, 30.3, 50
- Feature: 4-M5 ∇ 10 2 holes on the same position at opposite side.

End View (Right):

- Dimensions: 134, 122, 106, 135
- Feature: B View
- Dimensions: 5.7, 3.5, 1.8, 5.5

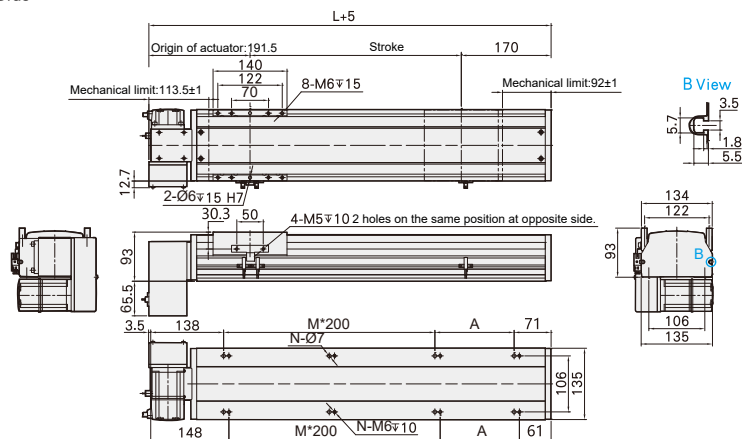
Bottom View (Bottom):

- Dimensions: 138, 71, 148, 61
- Feature: N- $\varnothing 7$
- Feature: M*200
- Feature: A
- Feature: N-M6 ∇ 10
- Dimensions: 106, 135

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	17	17	16	16	18	18	18	18	20	20	
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9	

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409	
A	150	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	
N	20	25	22	22	22	22	24	24	24	24	26	26	26	28	28	28	30	30	30	30	30	30	32	32	32	32	32	34	34	34	
KG	24.5	25.1	26.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	409	459	509	559	609	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609	1659	1709	1759	1809	1859	1909
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	14	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209	3259	3309	3359	3409
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3050mm**

Maximum Speed **2000mm/s**

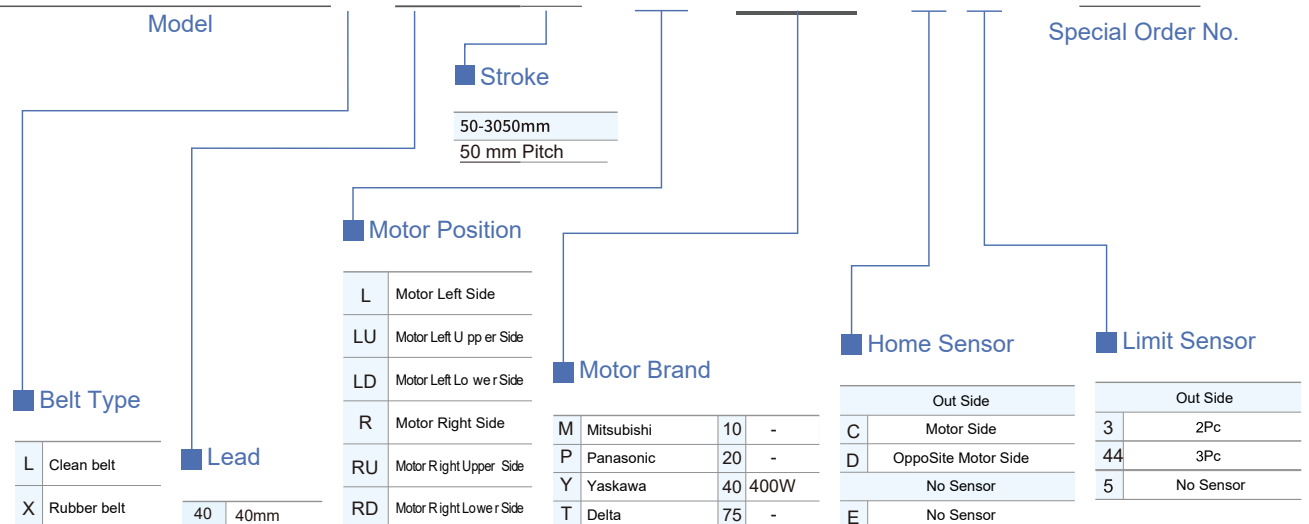
Motor Output **400W**

Belt Width **30 mm**

Linear Guide **20X15
-2 piece**

Ordering Method

WETB17M L-40-50- L- M 40C-4 - 0001



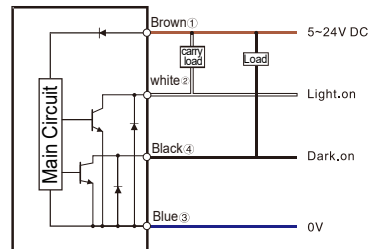
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal (kg)	45
		Vertical (kg)	
	Rated Thrust (N)		204
	Stroke Pitch (mm)		50-3050mm/50 50 mm Pitch
Parts	AC Servo Motor Output (W)		400
	Belt Width		30
	High Rigidity Linear Guide (mm)		W20XH15
	Home Sensor	Outside	672(NPN/PNP)

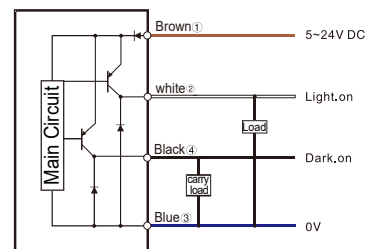
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

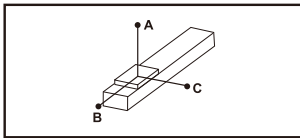
DC four-wire NPN output



DC four-wire PNP output

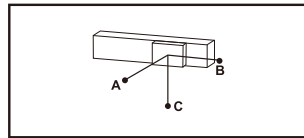


Allowable Overhang



(Unit : mm)

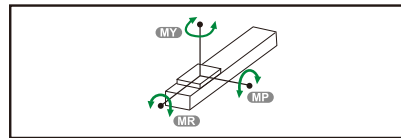
Horizontal Installation	A	B	C
10kg	2942	1133	1033
20kg	1430	547	498
30kg	926	350	320
45kg	588	291	201



(Unit : mm)

Wall Installation	A	B	C
15kg	676	742	1933
25kg	390	428	1127
35kg	269	294	781
45kg	201	219	588

Static Loading Moment



(Unit : mm)

MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.

*Operation life is 10,000km when the product is using under the specified conditions

*Data information is not for ceiling-mount inverse use.

Contact us for the details if you want to apply ceiling-mount inverse usage.

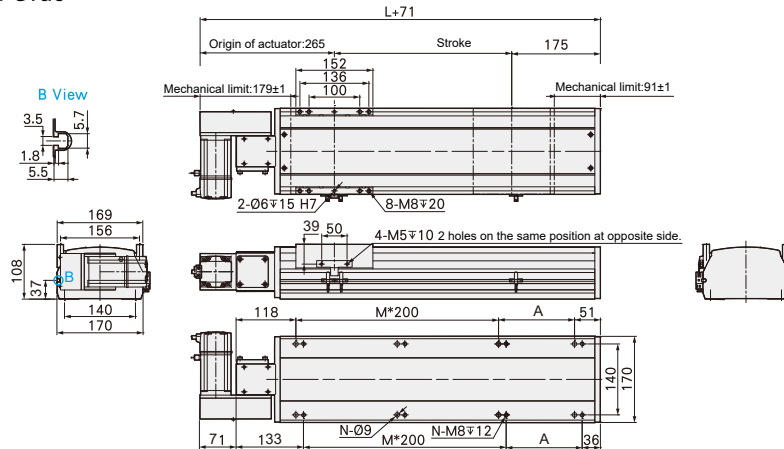
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit: mm

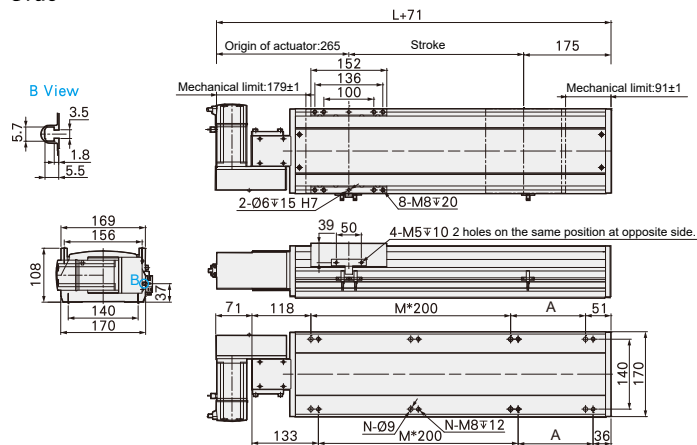


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

R Motor Right Side

Unit: mm



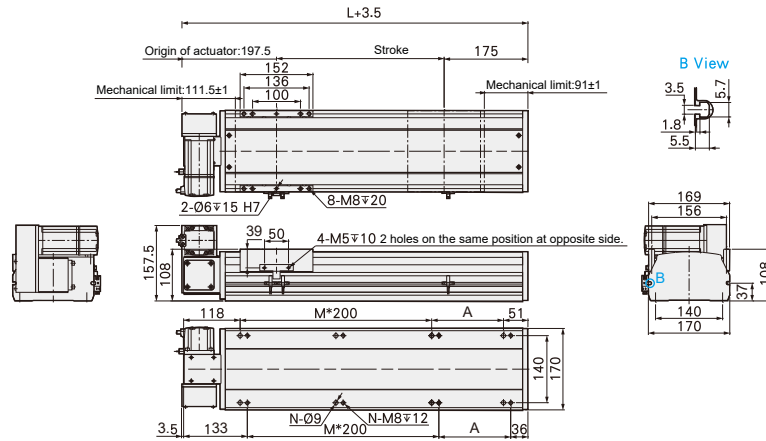
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

單位 Unit : mm

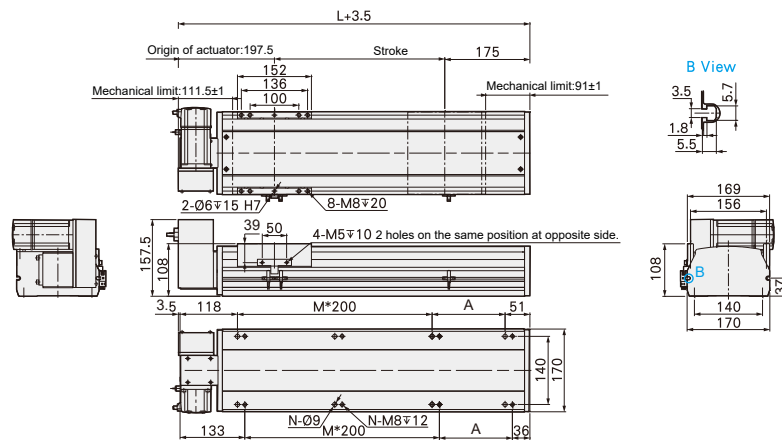


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

RU Motor Right Upper Side

Unit : mm



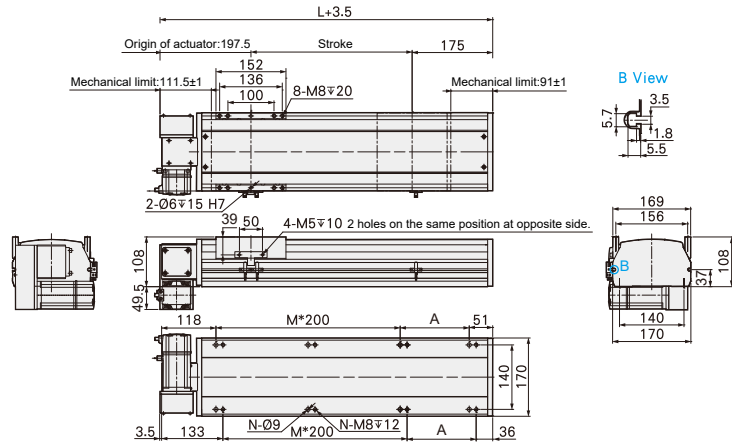
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L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



Motor Left Lower Side

Unit : mm



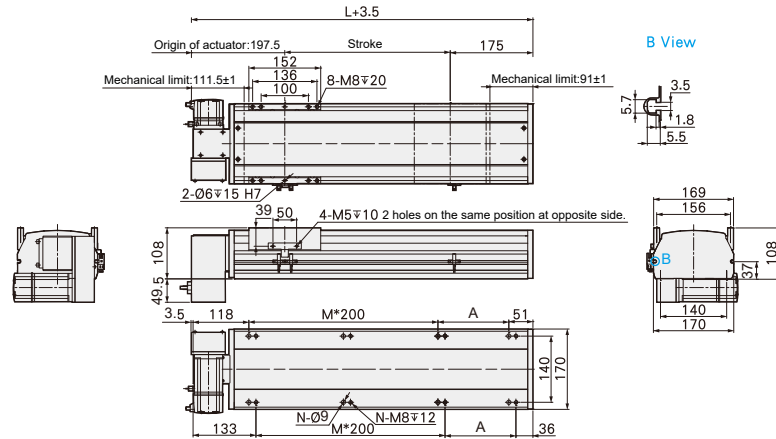
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



Motor Right Lower Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1969	2019	2069	2119	2169	2219	2269	2319	2369	2419	2469	2519	2569	2619	2669	2719	2769	2819	2869	2919	2969	3019	3069	3119	3169	3219	3269	3319	3369	3419
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8



Ordering Method

WETB22M L-40 - 100 - L - M 75 - C4 - 0001

Model

Stroke

50-3500mm
50 mm Pitch

Special Order No.

Belt Type

L	Clean belt
X	Rubber belt

Lead

40 40mm

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	750W

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
44	3Pc
5	No Sensor

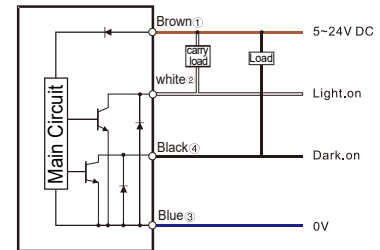
Specification

Spec	Repeatability (mm)		±0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal (kg)	85
		Vertical (kg)	
	Rated Thrust (N)		367
	Stroke Pitch (mm)		50-3500mm/5050 mm Pitch
Parts	AC Servo Motor Output (W)		750
	Belt Width		50
	High Rigidity Linear Guide (mm)		W23XH18
	Home Sensor	Outside	672(NPN/PNP)

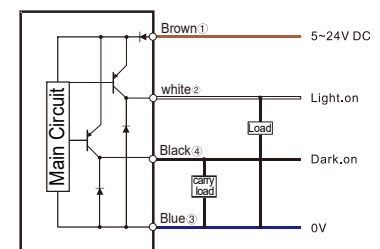
*Acceleration and deceleration value is set 0.4 second.

Sensor Layout

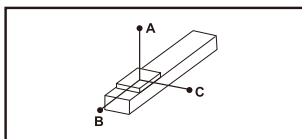
DC four-wire NPN output



DC four-wire PNP output

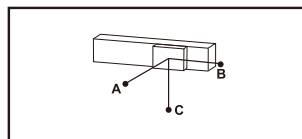


Allowable Overhang



(Unit : mm)

Horizontal Installation	A	B	C
45kg	1588	600	349
65kg	1052	328	285
85kg	768	281	206



(Unit : mm)

Wall Installation	A	B	C
40kg	500	685	1805
60kg	315	430	1152
85kg	206	281	768

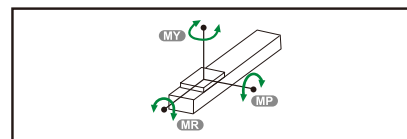
*The torque value in the chart indicate the center of gravity.

*Operation life is 10,000km when the product is using under the specified conditions

*Data information is not for ceiling-mount inverse use.

Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit : mm)

MY	2052
MP	2052
MR	1810

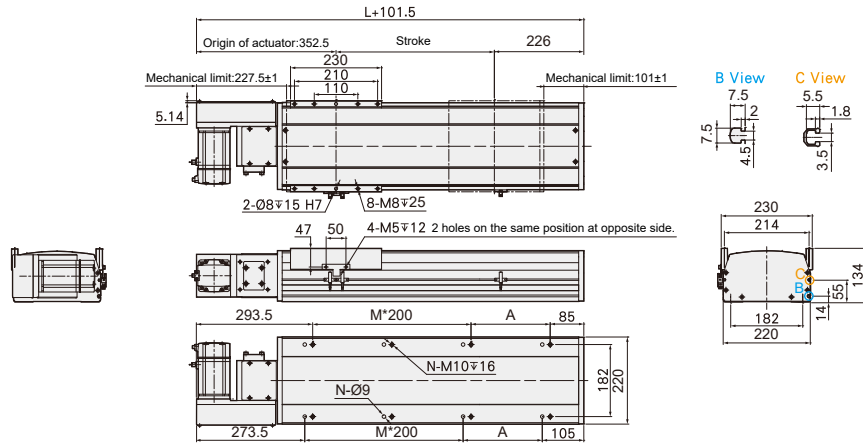
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B

Motor Left Side / Motor Right Side

L Motor Left Side

單位 Unit : mm

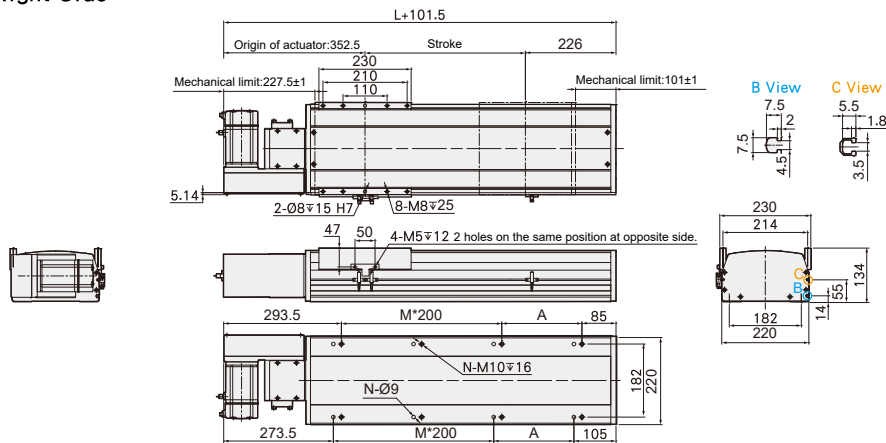


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	3	3	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	60	61.2	62.4	63.6	64.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

R Motor Right Side

Unit : mm



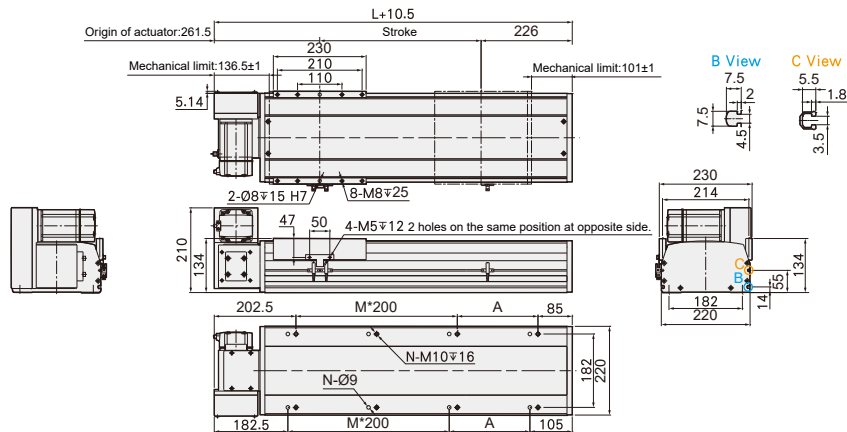
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	3	3	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	60	61.2	62.4	63.6	64.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

單位 Unit: mm

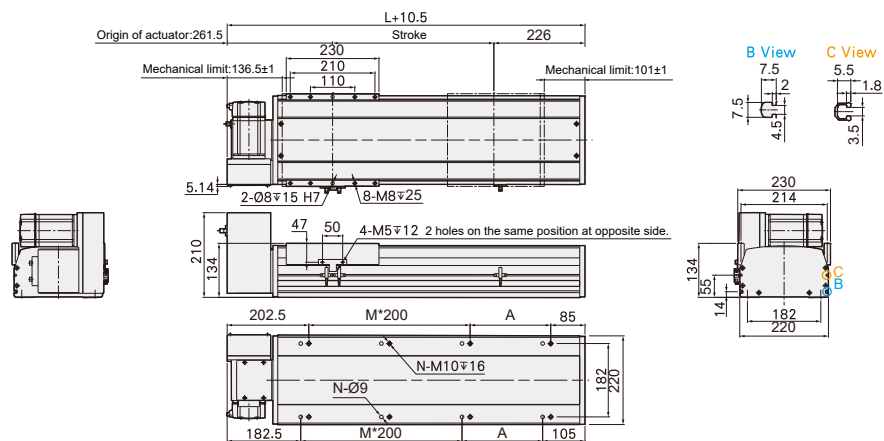


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2		3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	60	61.2	62.4	63.6	64.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

RU Motor Right Upper Side

Unit: mm

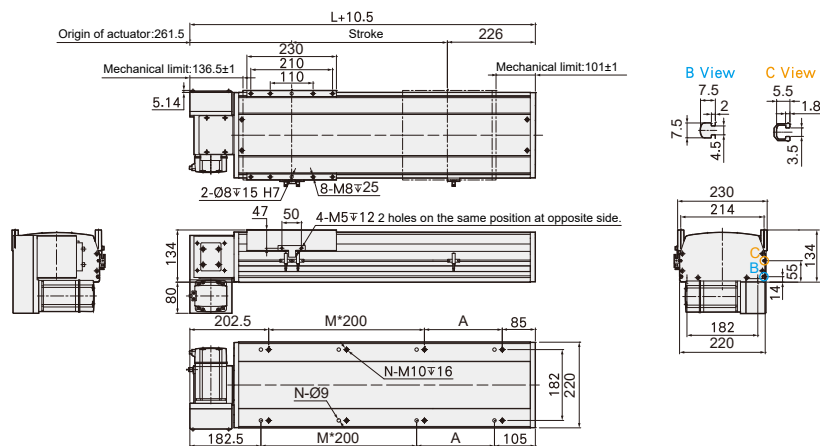


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	60	61.2	62.4	63.6	64.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	24	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

LD Motor Left Lower Side

單位 Unit: mm

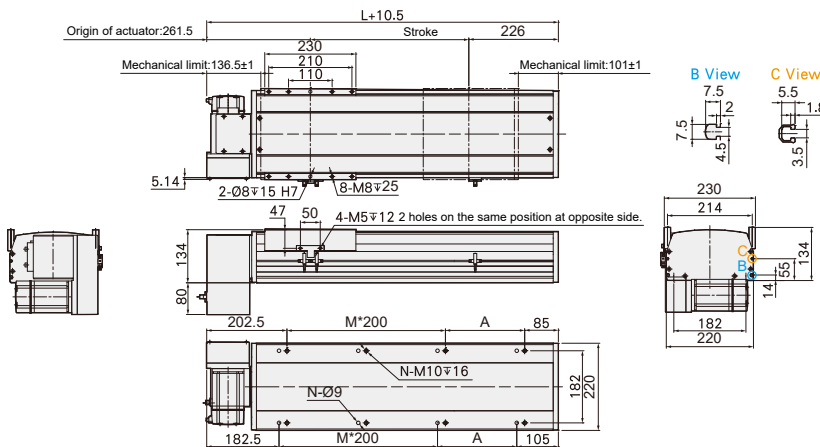


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027	
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
M	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	18	18	20	
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	59.8	60	61.2	62.4	63.6	64.8

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
M	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100

RD Motor Right Lower Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	18	18	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	57.6	58.8	59.8	60	61.2	62.4	63.6

stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100

MEMO

Module

WMK Series

Standard/Belt Type (Europe Type)



Standard/Belt Type

SMALL



Body width:65mm
Maximum travel:5000mm...57
Maximum load:60kg

MEDIUM



Body width:85mm
Maximum travel:5000mm...64
Maximum load:100kg

LARGE



Body width:110mm
Maximum travel:4800mm...64
Maximum load:200kg

European standard belt sliding module

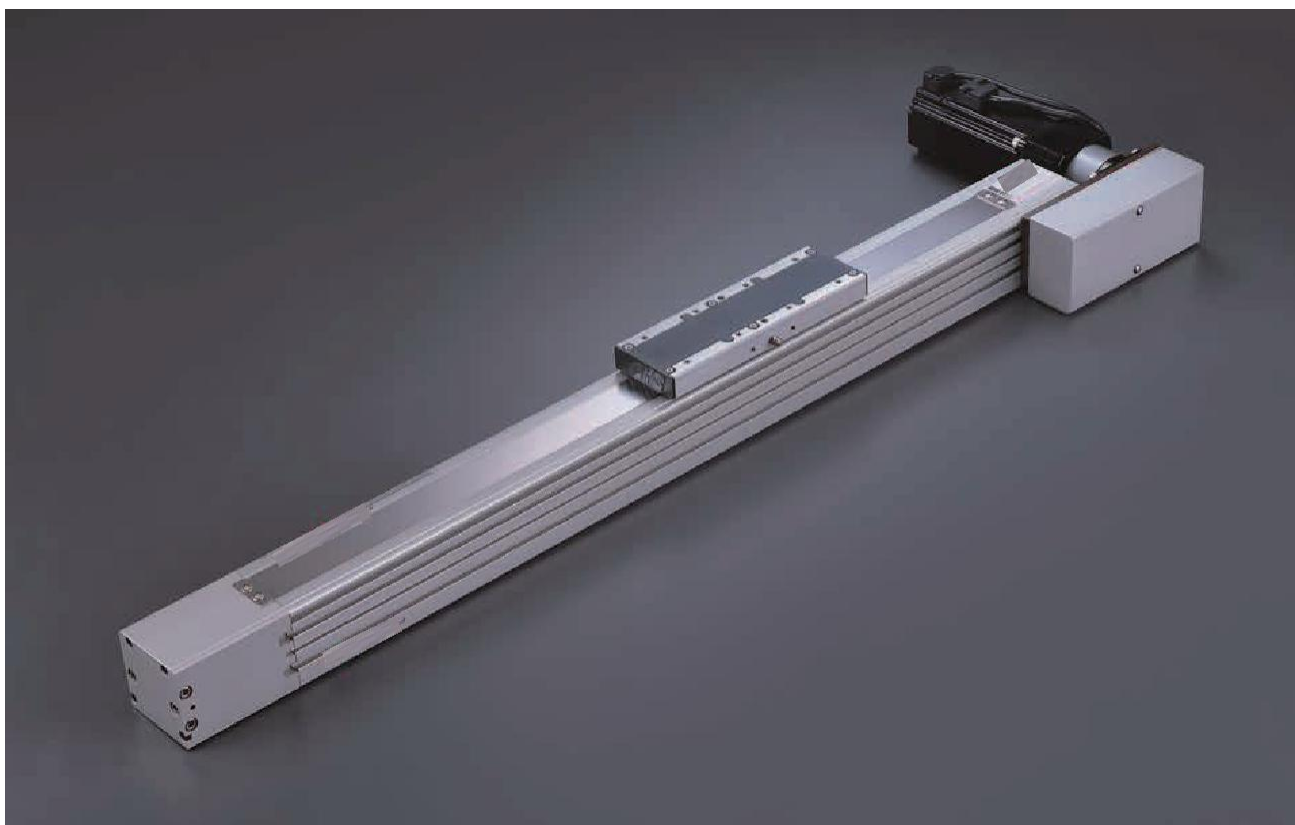
WM Europe Type Belt Actuator

Environment	Driven Mode	Specification	Reducer Mechanism	Motor Output (w)	Width(mm)	Repeatability(mm)	Belt Spec		Maximum Payload(kg)		Maximum Speed (mm/s) ^{*1}
							Belt Width(mm)	Lead	Horizontal	Vertical	
Standard	Timing Belt										
		WMK65	Yes	400W	65	±0.1	32	110 ^{*3}	60	17	5000 ^{*3}
		WMK85		750W	85		46	200 ^{*3}	100	24	5000 ^{*3}
		WMK110		750W	110		50	250 ^{*3}	200	50	5000 ^{*3}

*1The highest speed is based on the maximum servo motor's rpm (3000).

*2Lead - the maximum speed depends on different gear ratio.

Stroke(mm) & Maximum Speed(mm/s)																									Speed		Page	
Stroke	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	3000	3100	3300	3500	3700	3900	1400	4300	4500	4800	5000					



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 3000mm

Maximum
Speed 2000mm/s

Motor Output 400w

Belt Width 25mm

Linear Guide 15X12.5
1 piece

Ordering Method

WMK65-L110-2000-L-M 40-C4 - 0001

Model

Special Order No.

Stroke

100-3000mm
50 mm Pitch

Lead

L110 110mm

Motor Position

L	Motor Left Side
R	Motor Right Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	-
Y	Yaskawa	40	400W
T	Delta	75	-

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

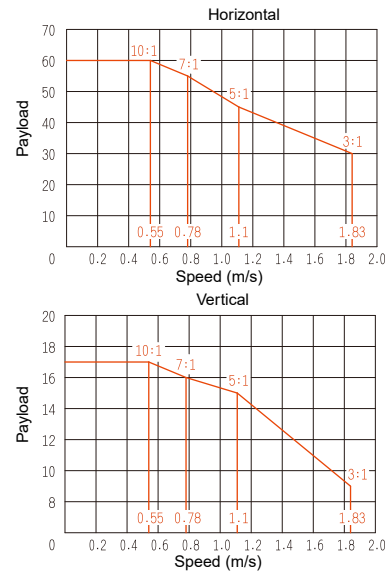
Limit Sensor

	Out Side
33	1Pc
4	2Pc
5	No Sensor

Spec	Gearbox Ratio		3:1	5:1	7:1	10:1
	Maximum Speed (mm/s)		1833	1100	785	550
	Maximum Payload	Horizontal (kg)	30	45	55	60
		Vertical (kg)	9	15	16	17
	Repeatability (mm)		±0.1			
	Rated Thrust (N)		220			
Parts	Stroke Pitch (mm)		100-5000mm/100 100 mm Pitch			
	AC Servo Motor Output (W)		400			
	Belt Width		25			
	High Rigidity Linear Guide (mm)		W15XH12.5			
Home Sensor		Outside	672(NPN/PNP)			

*Notice, if the belt breaks, the moving parts will fall when the application is vertical. *Lead is 110mm without gearbox.
*Acceleration and deceleration value is set 0.4 second.

Acceleration-Payload Relationship

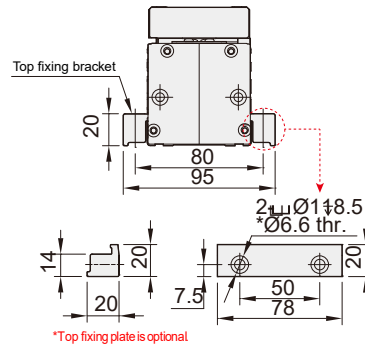


Numbers of fixing screws

M5 nuts Qty.(by stroke)			
Stroke	Quantity	Stroke	Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~5000	22

*Standard mounting method is fix from the bottom, using the M5 bolt and nut.

Installation Instructions&Dimensions



Allowable Overhang

(Unit : mm)			
Horizontal installation	A	B	C
3:1	10kg	950	42
	20kg	420	105
	30kg	250	55
5:1	25kg	950	140
	35kg	625	90
	45kg	450	55
7:1	28kg	1300	145
	40kg	850	90
	55kg	550	50
10:1	30kg	1850	145
	45kg	1250	90
	60kg	800	50

(Unit : mm)			
Wall Installation	A	B	C
3:1	10kg	42	250
	20kg	19	110
	30kg	10	60
5:1	25kg	25	140
	35kg	15	90
	45kg	10	60
7:1	28kg	25	145
	40kg	15	90
	55kg	10	60
10:1	30kg	25	140
	45kg	15	90
	60kg	10	60

(Unit : mm)		
Vertical Installation	A	C
3:1	3kg	900
	6kg	450
	9kg	300
5:1	5kg	900
	10kg	450
	15kg	300
7:1	6kg	900
	12kg	450
	16kg	300
10:1	6kg	900
	13kg	450
	17kg	330

Static Loading Moment

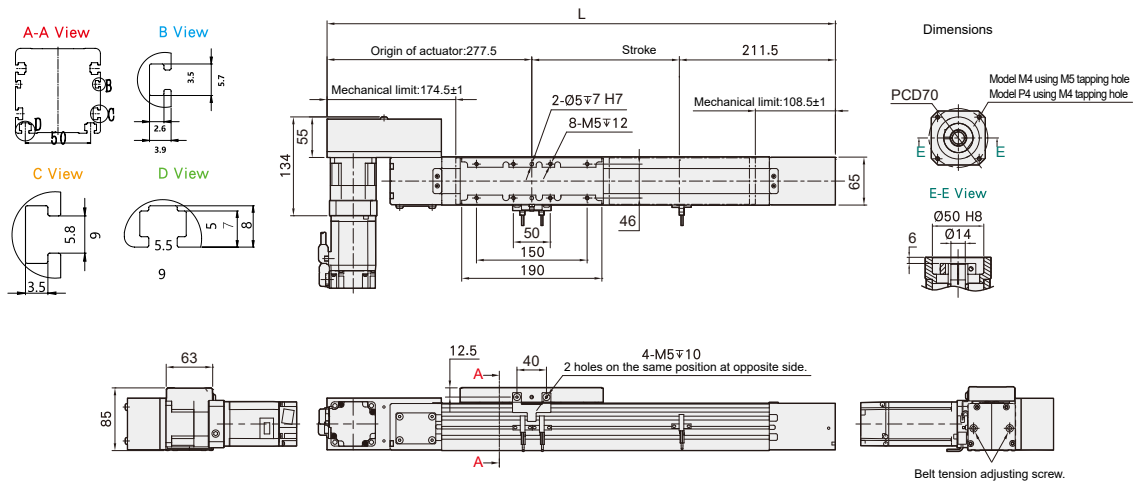
(Unit : mm)	
MY	338
MP	338
MR	59

*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*The steel stripe cover may deformed when the actuator length is over 1000mm. Horizontal application is recommend.
*Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

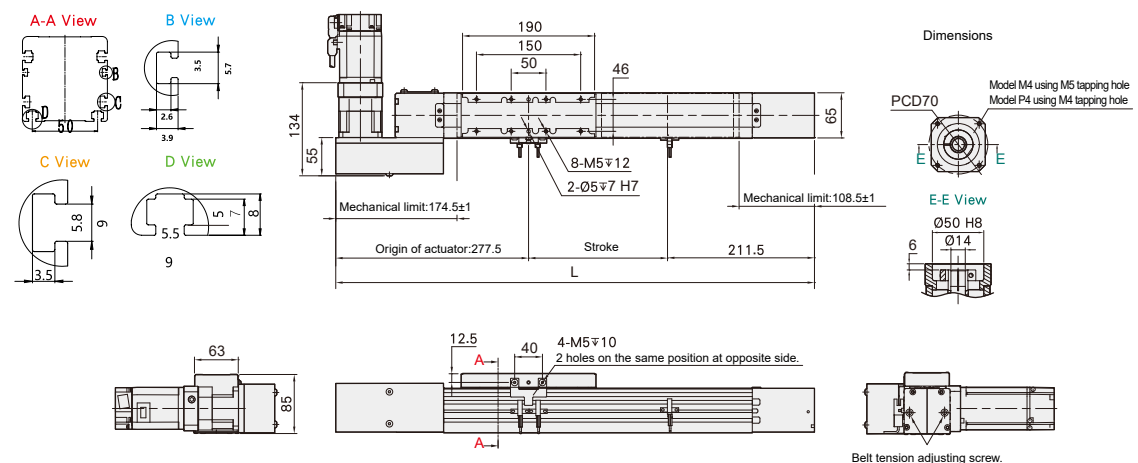


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3089	3189	3289	3389	3489	3589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

R Motor Right Side

Unit : mm



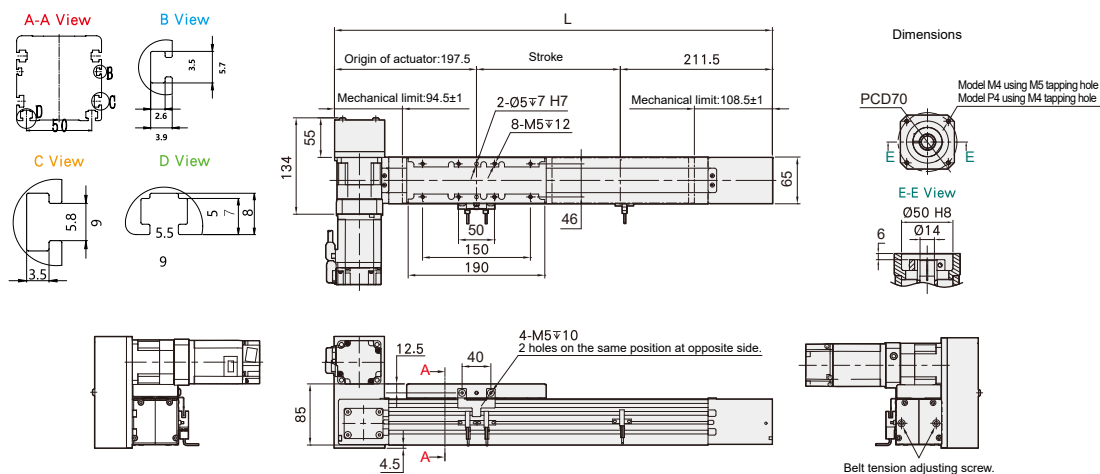
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3089	3189	3289	3389	3489	3589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

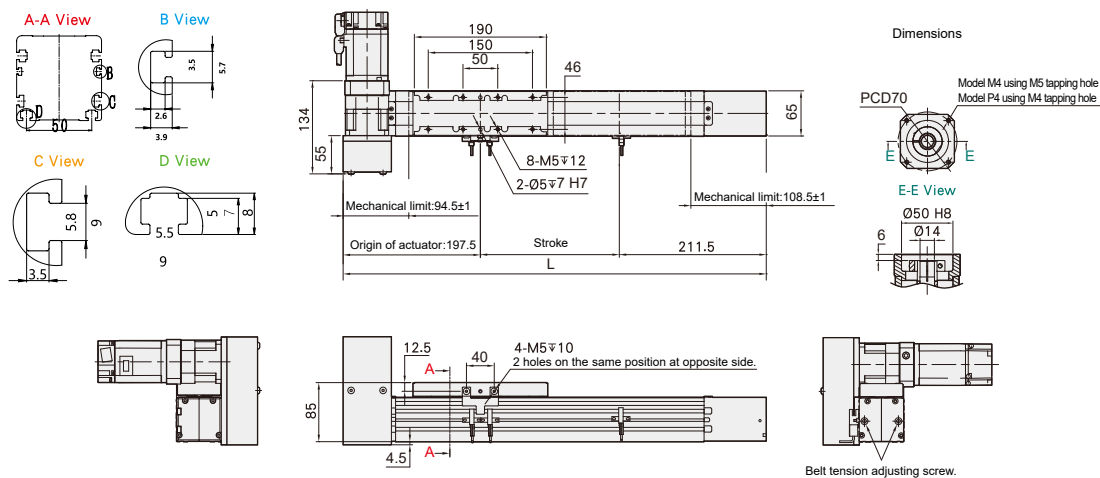


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

RU Motor Right Upper Side

Unit : mm



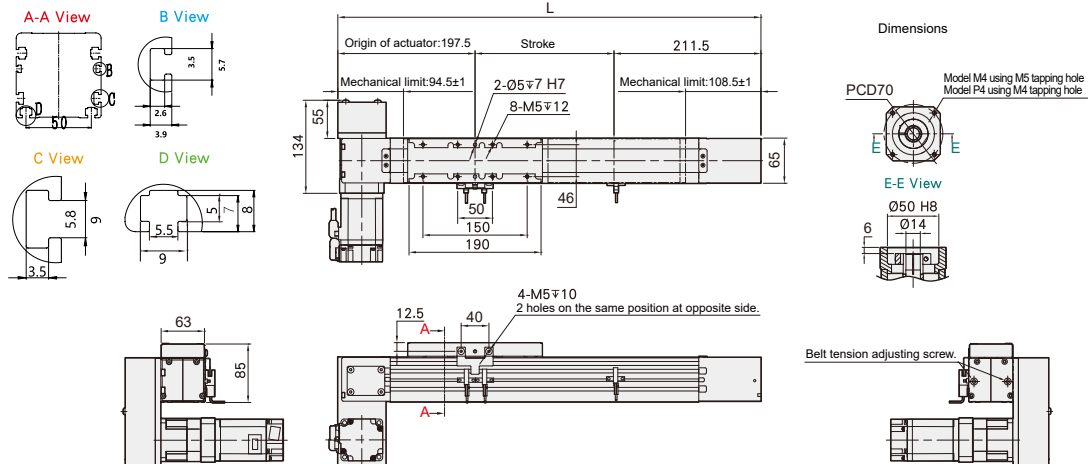
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

Unit : mm

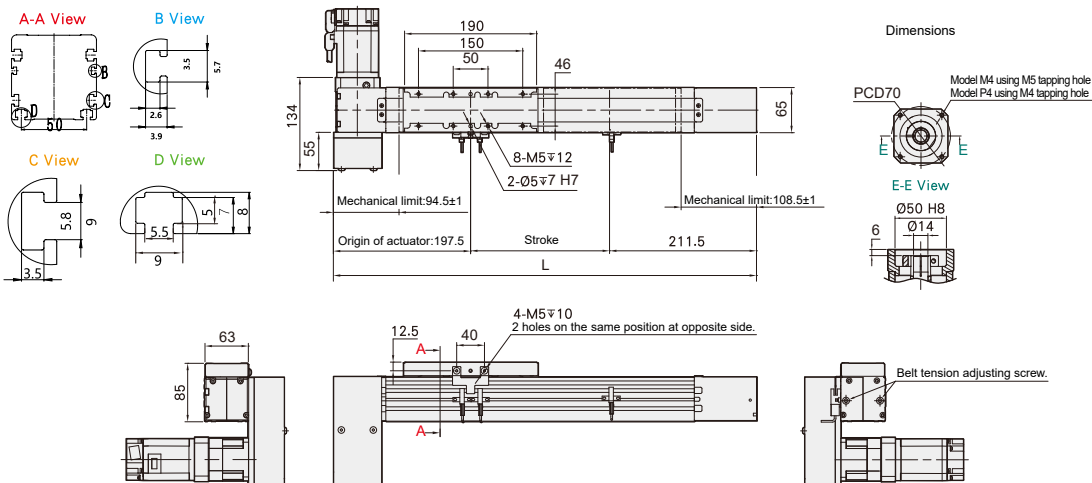


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

RD Motor Right Lower Side

Unit : mm



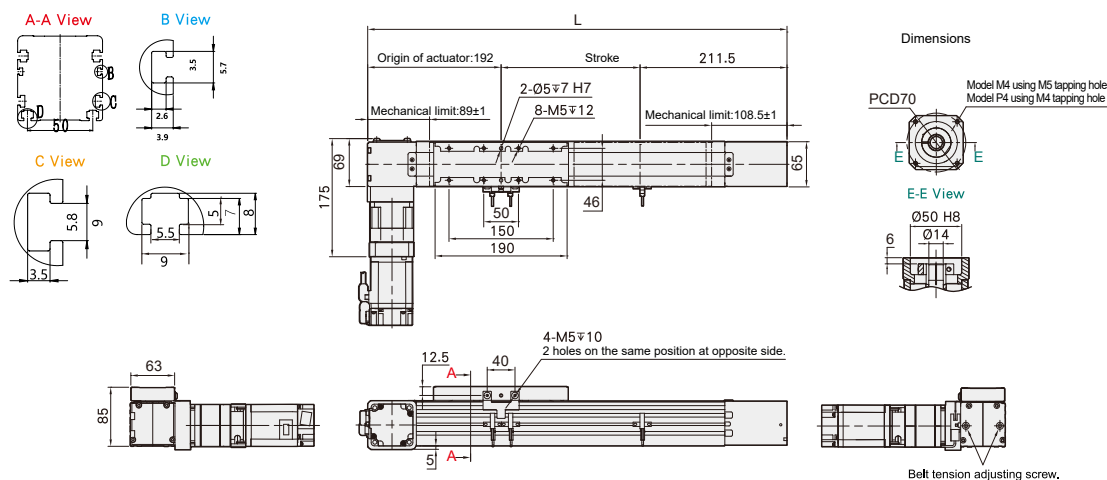
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Reducer With Motor Left Side / Reducer With Motor Right Side

LT Reducer With Motor Left Side

Unit: mm

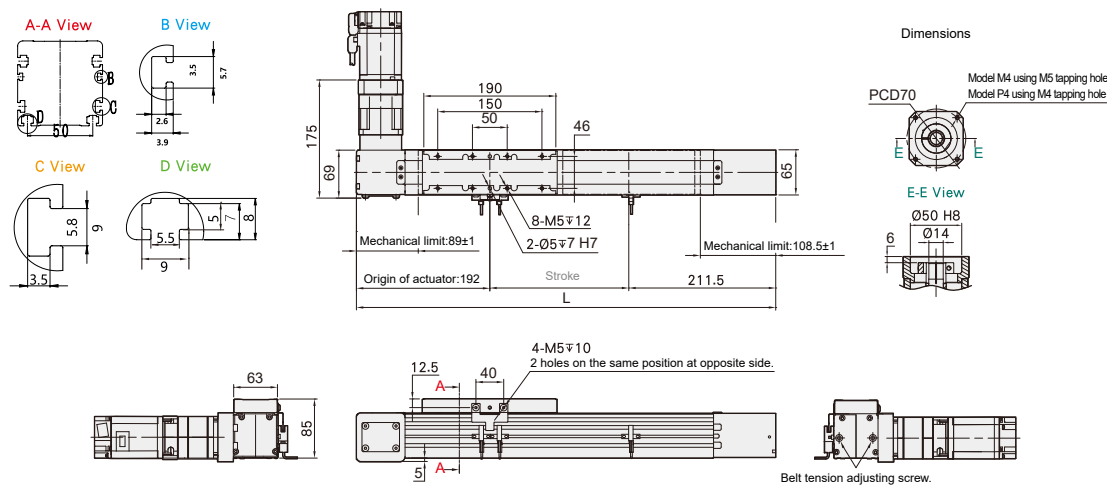


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	6.87	7.39	7.91	8.43	8.95	9.47	9.99	10.51	11.03	11.55	12.07	12.59	13.11	13.63	14.15	14.67	15.19	15.71	16.23	16.75	17.27	17.79	18.31	18.83	19.35

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	19.87	20.39	20.91	21.43	21.95	22.47	22.99	23.51	24.03	24.55	25.07	25.59	26.11	26.63	27.15	27.67	28.19	28.71	29.23	29.75	30.27	30.79	31.31	31.83	32.35

RT Reducer With Motor Right Side

Unit: mm



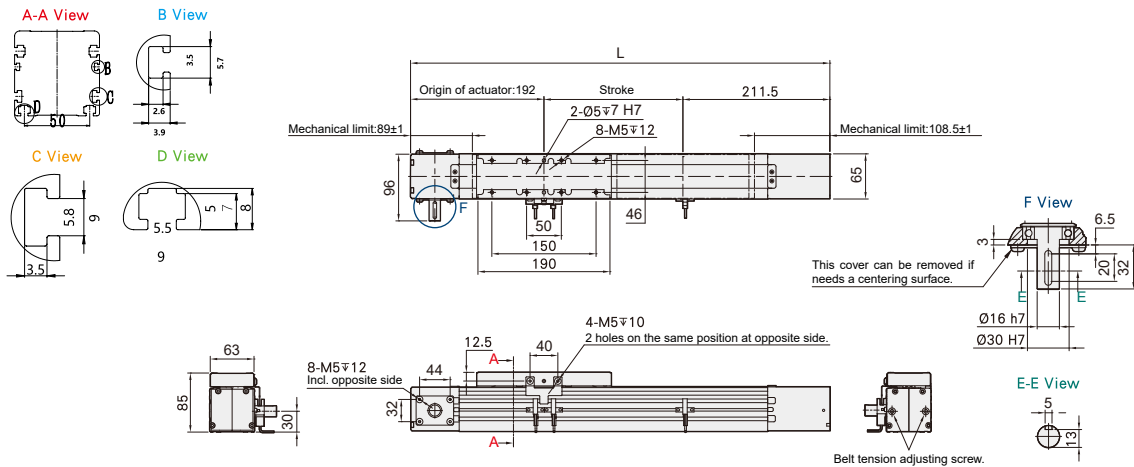
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	6.87	7.39	7.91	8.43	8.95	9.47	9.99	10.51	11.03	11.55	12.07	12.59	13.11	13.63	14.15	14.67	15.19	15.71	16.23	16.75	17.27	17.79	18.31	18.83	19.35

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	19.87	20.39	20.91	21.43	21.95	22.47	22.99	23.51	24.03	24.55	25.07	25.59	26.11	26.63	27.15	27.67	28.19	28.71	29.23	29.75	30.27	30.79	31.31	31.83	32.35

Motor Shaft Left Side / Motor Shaft Right Side

LL Motor Shaft Left Side

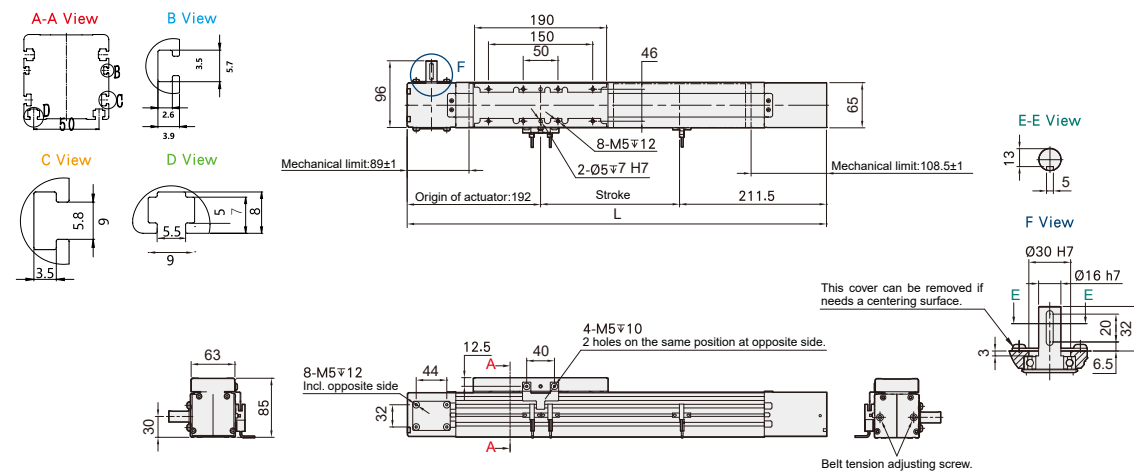
Unit : mm



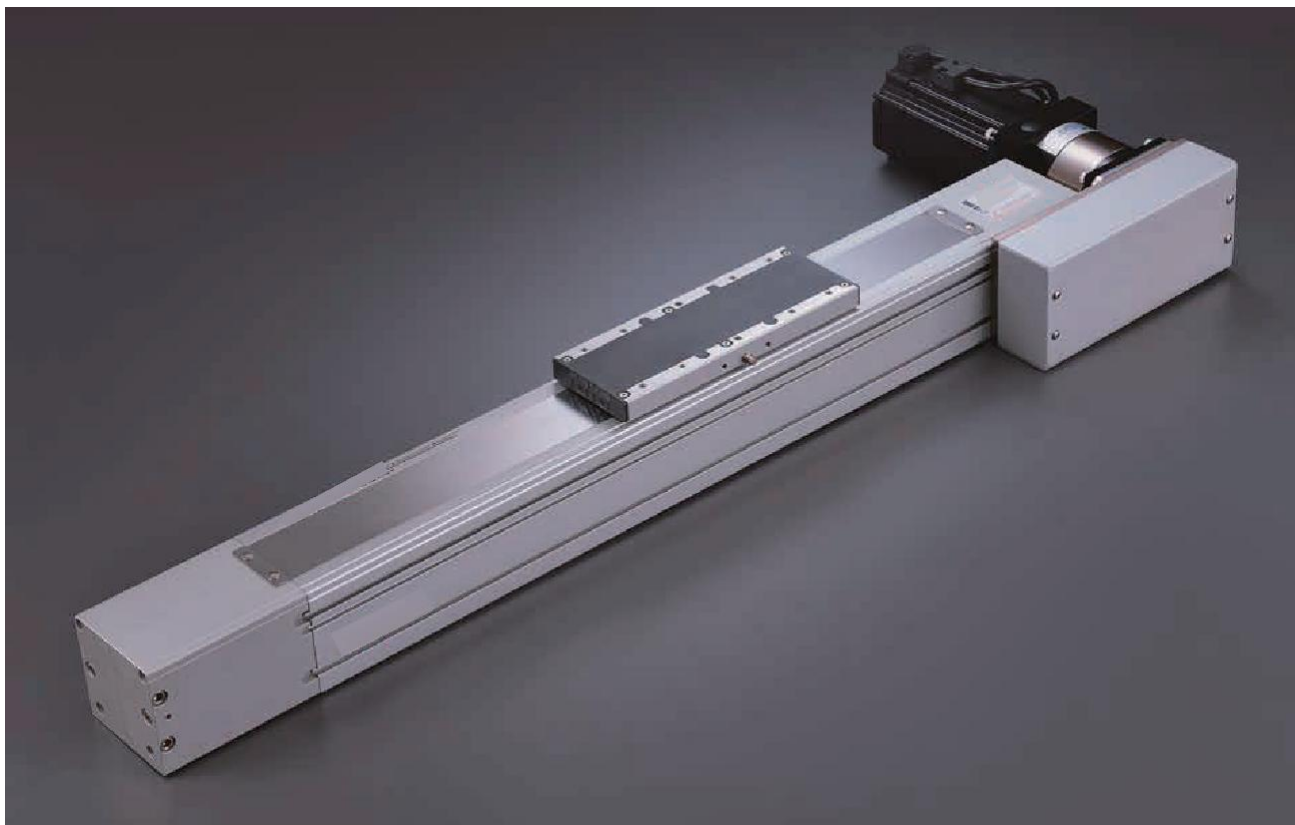
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	4.36	4.9	5.44	5.98	6.52	7.06	7.6	8.14	8.68	9.22	9.76	10.3	10.84	11.38	11.92	12.46	13	13.54	14.08	14.62	15.16	15.7	16.24	16.78	17.32
stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	17.86	18.4	18.94	19.48	20.02	20.56	21.1	21.64	22.18	22.72	23.26	23.8	24.34	24.88	25.42	25.96	26.5	27.04	27.58	28.12	28.66	29.2	29.74	30.28	30.82

RR Motor Shaft Right Side

Unit : mm



stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	4.36	4.9	5.44	5.98	6.52	7.06	7.6	8.14	8.68	9.22	9.76	10.3	10.84	11.38	11.92	12.46	13	13.54	14.08	14.62	15.16	15.7	16.24	16.78	17.32
stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	17.86	18.4	18.94	19.48	20.02	20.56	21.1	21.64	22.18	22.72	23.26	23.8	24.34	24.88	25.42	25.96	26.5	27.04	27.58	28.12	28.66	29.2	29.74	30.28	30.82



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 5000mm

Maximum Speed 2000mm/s

Motor Output 750w

Belt Width 35mm

Linear Guide 20X17.5
1 piece

※ The maximum speed depends on different gear ratio.

Ordering Method

WMK85-2000-L-M7B-C4-NL-10-A001

Model

Stroke

100-5000mm
100 mm Pitch

Special Order No.

Grease Fitting Position

NL On The Left of The Slider
NR On The Right of The Slider

Motor Position

L	Motor Left Side	R	Motor Right Side
LU	Motor Left Upper Side	RU	Motor Right Upper Side
LD	Motor Left Lower Side	RD	Motor Right Lower Side
LT	Reducer With Motor Left Side	RT	Reducer With Motor Right Side
LL	Motor Shaft Left Side	RR	Motor Shaft Right Side

Dimensions

M7	Servo motor: PC D90-M6-shift $\phi 19$ mm	B	
P7	Servo motor: PC D90-M5-shift $\phi 19$ mm		

※ If No Brake, No Description.

Home Sensor

C	Out Side
D	Motor Side
	Opposite Motor Side
E	No Sensor
	No Sensor

Limit Sensor

	Out Side
33	1Pc
4	2Pc
5	No Sensor

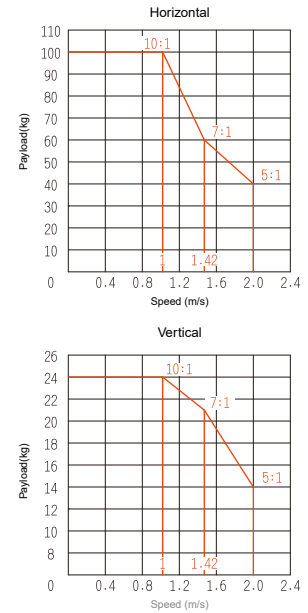
Gearbox Ratio

5	5:1
7	7:1
10	10:1
N	None Gearbox Type

Spec	Gearbox Ratio		5:1	7:1	10:1
	Maximum Speed (mm/s)		2000	1428	1000
	Maximum Payload	Horizontal (kg)	40	60	100
		Vertical (kg)	14	21	24
	Repeatability (mm)		±0.1		
	Rated Thrust (N)		340		
Parts	Stroke Pitch (mm)		100-5000mm/100 100 mm Pitch		
	AC Servo Motor Output (W)		750		
	Belt Width		35		
	High Rigidity Linear Guide (mm)		W20XH17.5		
Home Sensor		Outside	672(NPN/PNP)		

*Notice, if the belt breaks, the moving parts will fall when the application is vertical. *Lead is 200mm without gearbox.
*Acceleration and deceleration value is set 0.4 second.

Acceleration-Payload Relationship

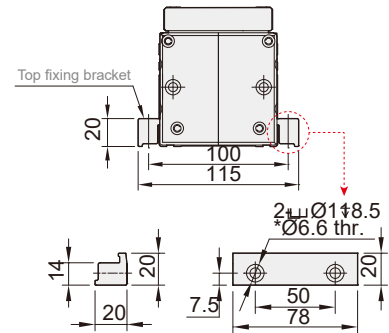


Numbers of fixing screws

M5 nuts Qty.(by stroke)			
Stroke	Quantity	Stroke	Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~5000	22

*Standard mounting method is fix from the bottom, using the M5 bolt and nut.

Installation Instructions&Dimensions



*Top fixing plate is optional.

Allowable Overhang

(Unit : mm)				(Unit : mm)				(Unit : mm)			
Horizontal installation	A	B	C	Wall Installation	A	B	C	Vertical Installation	A	C	
5:1	20kg	900	280	40	20kg	40	280	900	5kg	1250	1250
	30kg	550	160	22	30kg	22	160	600	10kg	650	650
	40kg	400	110	15	40kg	15	110	400	14kg	450	450
7:1	40kg	750	160	22	40kg	22	160	750	15kg	600	600
	50kg	575	115	16	50kg	15	110	575	18kg	480	480
	60kg	420	85	12	60kg	12	80	450	21kg	400	400
10:1	60kg	900	140	20	60kg	20	140	950	18kg	550	550
	80kg	700	105	15	80kg	15	105	750	20kg	450	450
	100kg	550	75	10	100kg	10	75	600	24kg	350	350

Static Loading Moment

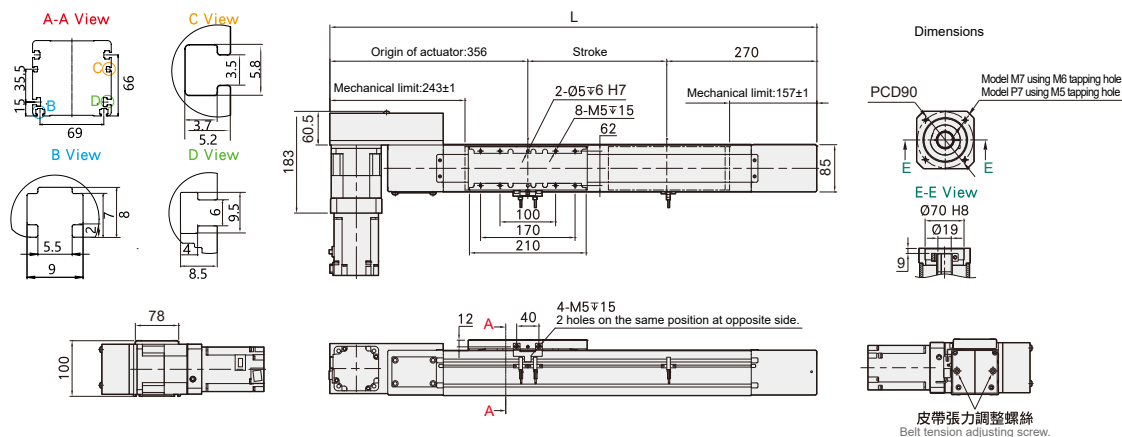
		(Unit : mm)	
MY		868	
MP		868	
MR		123	

*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*The steel stripe cover may deformed when the actuator length is over 1000mm. Horizontal application is recommend.
*Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

Motor Left Side / Motor Right Side

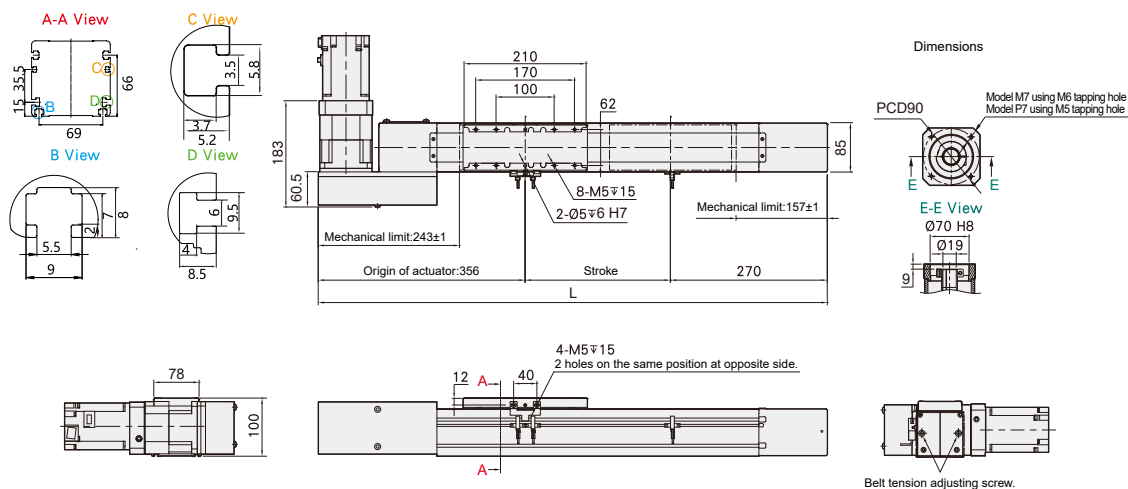
L Motor Left Side

(mm)



R Motor Right Side

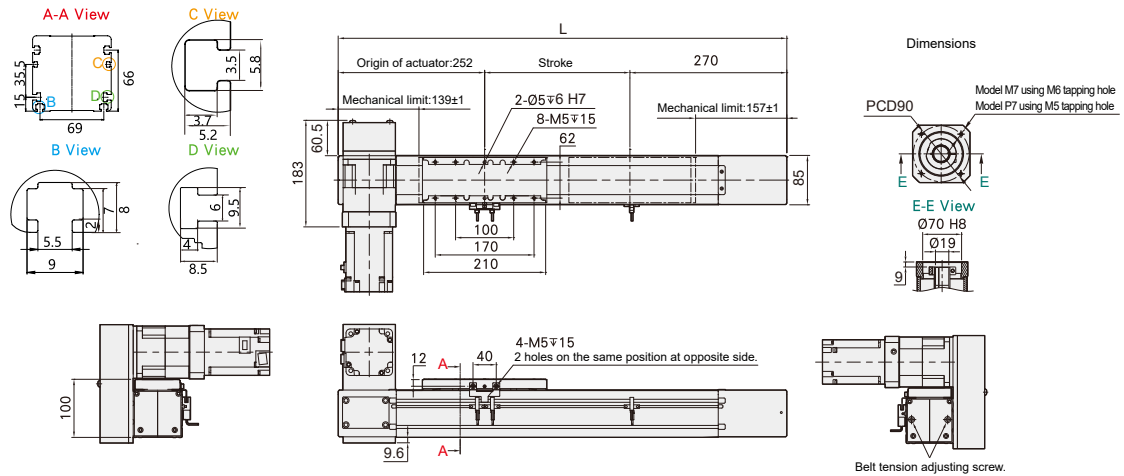
(mm)



Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

(mm)

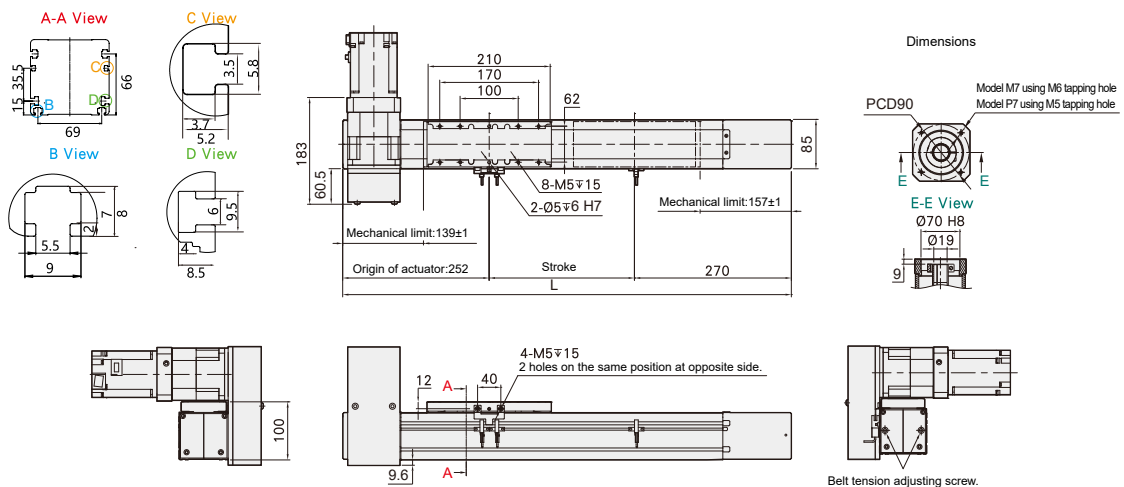


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

RU Motor Right Upper Side

(mm)



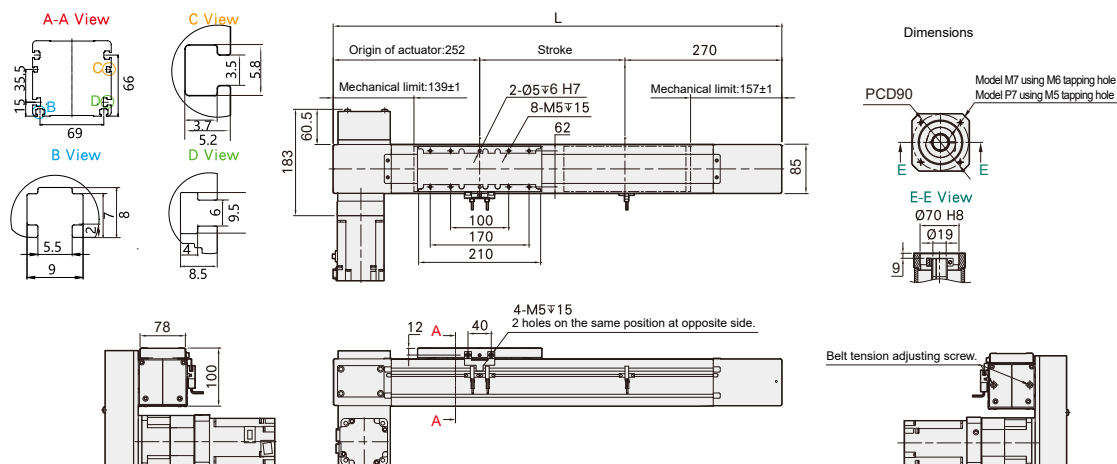
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

(mm)

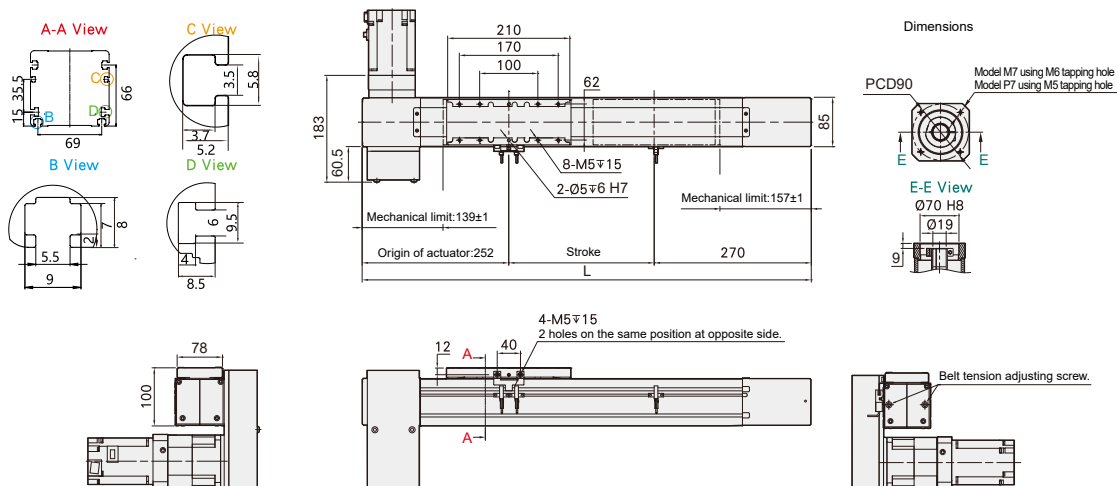


有效行程 stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

有效行程 stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

RD Motor Right Lower Side

(mm)



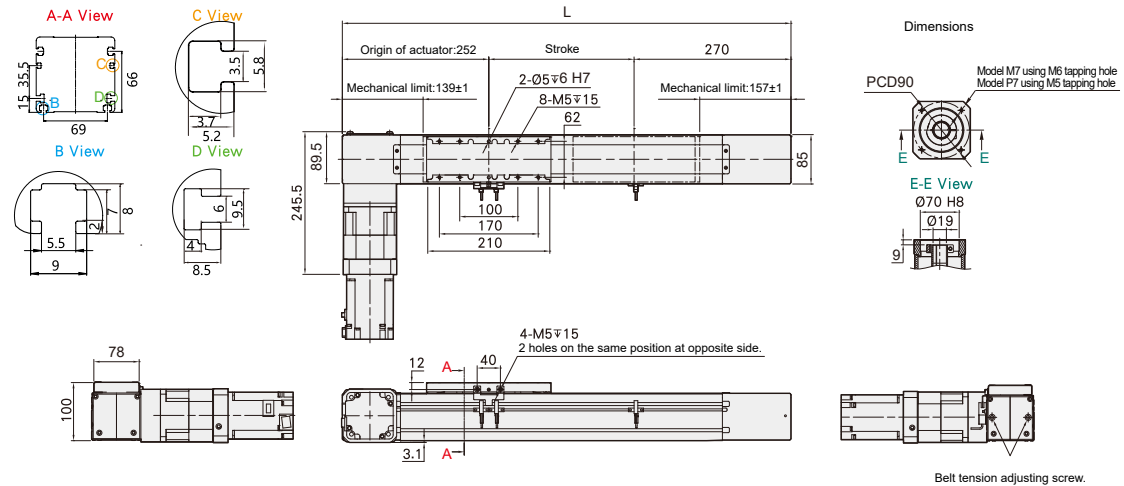
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

Reducer With Motor Left Side / Reducer With Motor Right Side

LT Reducer With Motor Left Side

(mm)

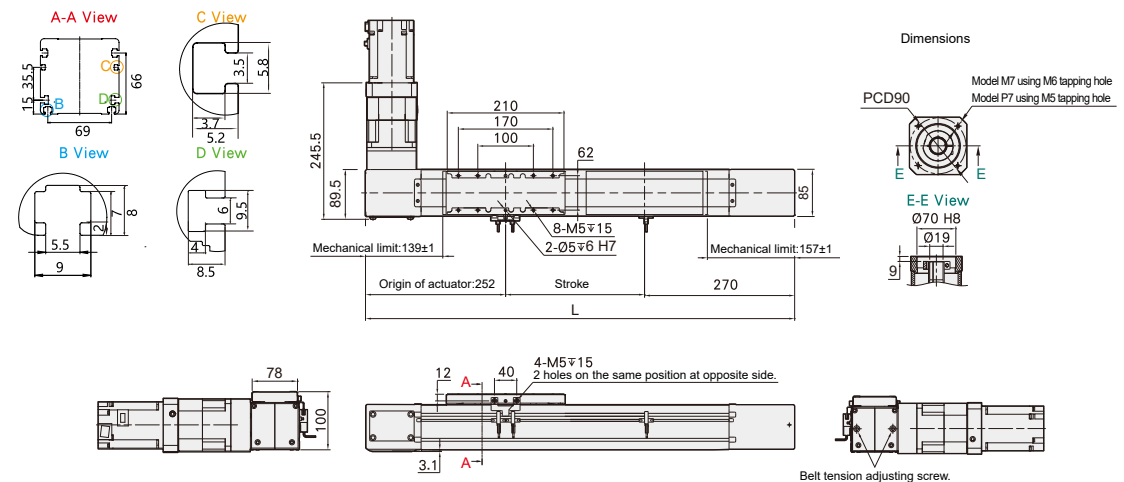


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.74

stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24

RT Reducer With Motor Right Side

(mm)

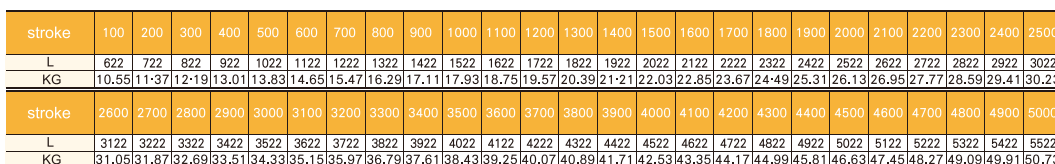


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.74

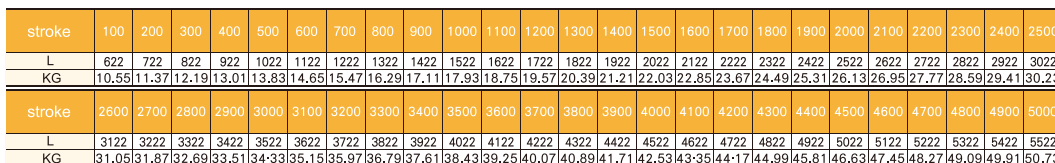
stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24

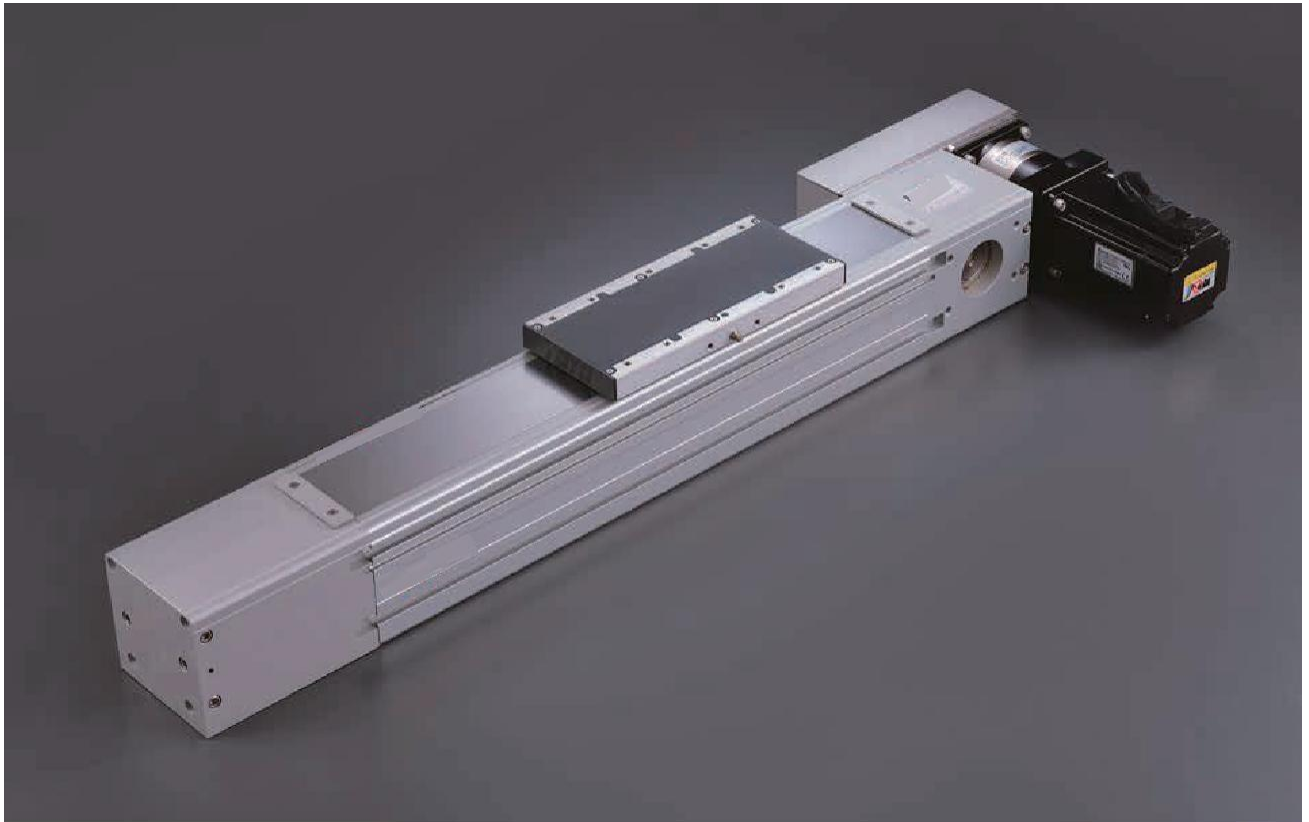
Module

(mm)



(mm)





The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 4800mm

Maximum Speed 1250mm/s

Motor Output 750w

Belt Width 50mm

Linear Guide 23X18
1 piece

※ The maximum speed depends
on different gear ratio.

型號表示方式 Ordering Method

WMK110 - 2000 - L- M7B - C 4 - NL -10 -A001

Model

Stroke

100-4800mm
100 mm Pitch

Special Order No.

Grease Fitting Position

NL On The Left of The Slider
NR On The Right of The Slider

Motor Position

L	Motor Left Side	R	Motor Right Side
LU	Motor Left Upper Side	RU	Motor Right Upper Side
LD	Motor Left Lower Side	RD	Motor Right Lower Side
LT	Reducer With Motor Left Side	RT	Reducer With Motor Right Side
LL	Motor Shaft Left Side	RR	Motor Shaft Right Side

Motor Brand

M7	Servo motor: PC D90-M6-shift Φ19mm	B
P7	Servo motor: PC D90-M5-shift Φ19mm	

※ If No Brake, No Description.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
33	1Pc
4	2Pc
5	No Sensor

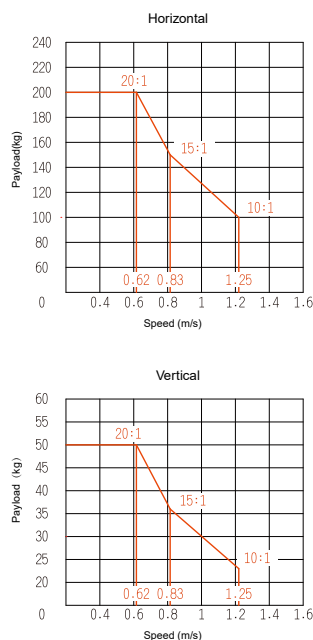
Slide

10	10:1
15	15:1
20	20:1
N	None Gearbox Type

Spec	Gearbox Ratio		10:1	15:1	20:1
	Maximum Speed (mm/s)		1250	833	625
	Maximum Payload	Horizontal (kg)	100	150	200
		Vertical (kg)	23	36	50
	Repeatability (mm)		±0.1		
	Rated Thrust (N)		765		
	Stroke Pitch (mm)		100-4800mm/100 100 mm Pitch		
Parts	AC Servo Motor Output (W)		750W		
	Belt Width		50		
	High Rigidity Linear Guide (mm)		W23XH18		
	Home Sensor	Outside	672(NPN/ PNP)		

*Notice, if the belt breaks, the moving parts will fall when the application is vertical. *Lead is 250mm without gearbox.
 *Acceleration and deceleration value is set 0.4 second.

Acceleration-Payload Relationship

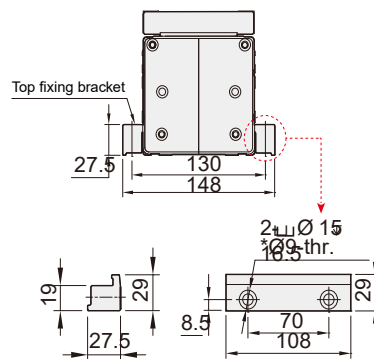


Numbers of fixing screws

M6 nuts Qty.(by stroke)			
有效行程 Stroke	數量 Quantity	有效行程 Stroke	數量 Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~4800	22

*Standard mounting method is fix from the bottom, using the M6 bolt and nut.

Installation Instructions&Dimensions



*Top fixing plate is optional.

Allowable Overhang

(Unit : mm)			
Horizontal Installation	A	B	C
10:1	60kg	1110	25
	80kg	750	16
	100kg	550	11
15:1	90kg	1400	20
	120kg	940	13
	150kg	650	8
20:1	120kg	1400	15
	160kg	900	8
	200kg	550	5

(Unit : mm)			
Wall Installation	A	B	C
10:1	60kg	25	195
	80kg	16	126
	100kg	11	85
15:1	90kg	20	160
	120kg	13	100
	150kg	8	63
20:1	120kg	15	115
	160kg	8	65
	200kg	5	35

(Unit : mm)		
Vertical Installation	A	C
10:1	12kg	1300
	18kg	870
	23kg	680
15:1	14kg	1480
	25kg	830
	36kg	575
20:1	30kg	750
	40kg	560
	50kg	450

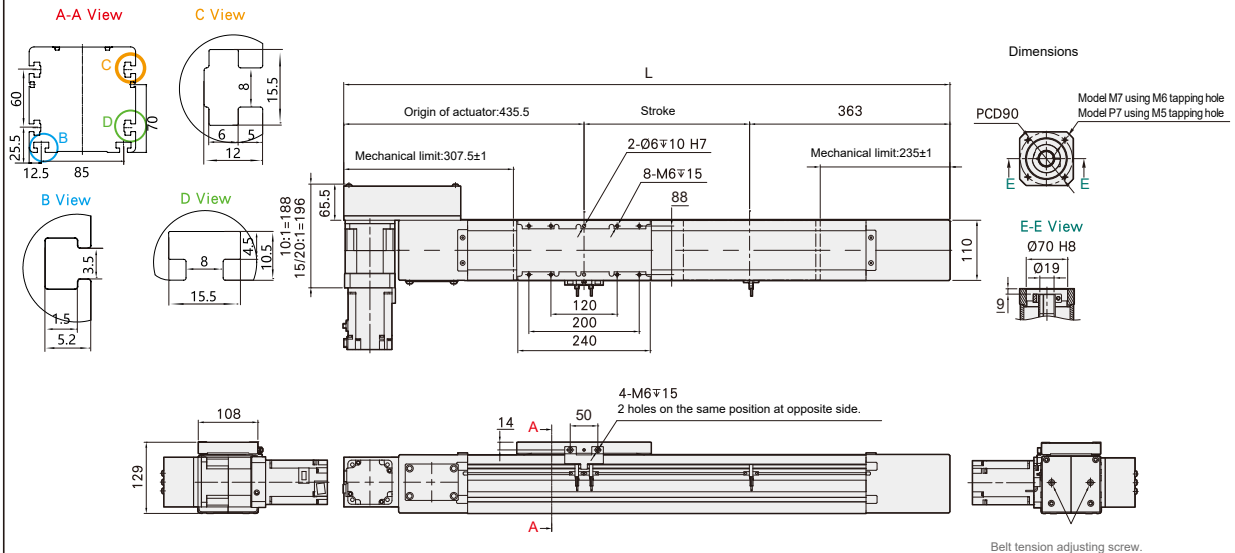
Static Loading Moment

(Unit : mm)	
MY	1479
MP	1479
MR	190

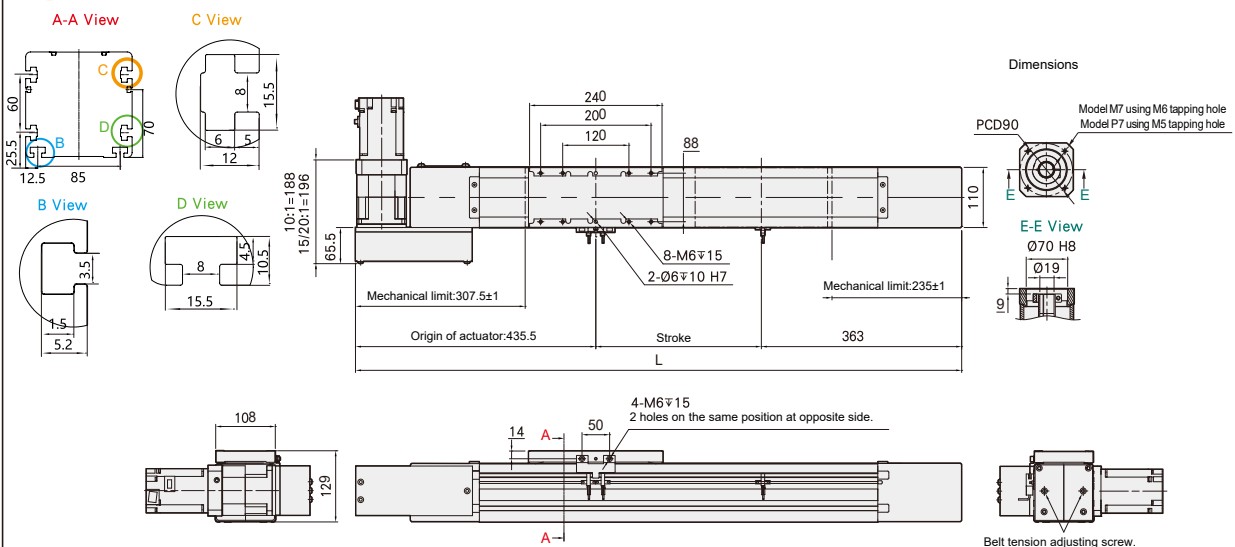
*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *The steel stipe cover may deformed when the actuator length is over 1000mm. Horizontal application is recommend.
 *Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

Motor Left Side / Motor Right Side

L Motor Left Side

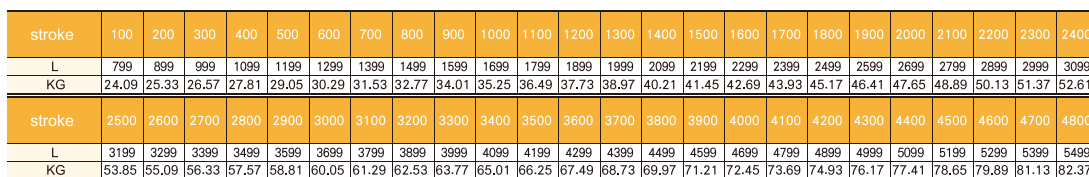


R Motor Right Side

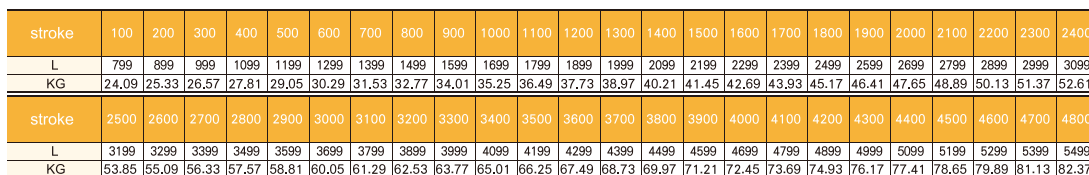


Module

(mm)



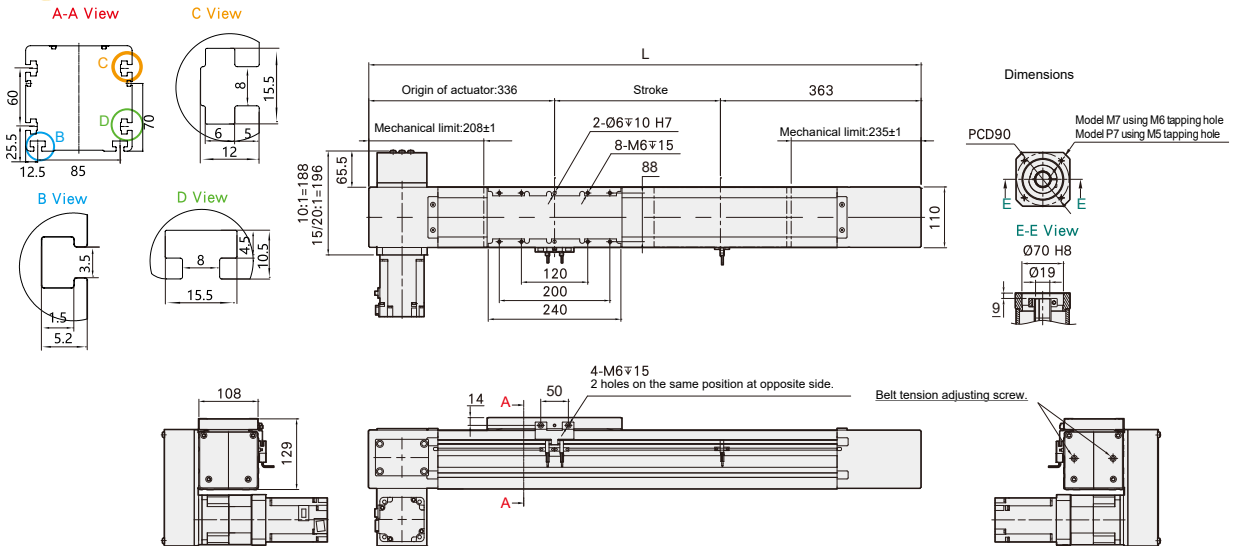
(mm)



Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

(mm)

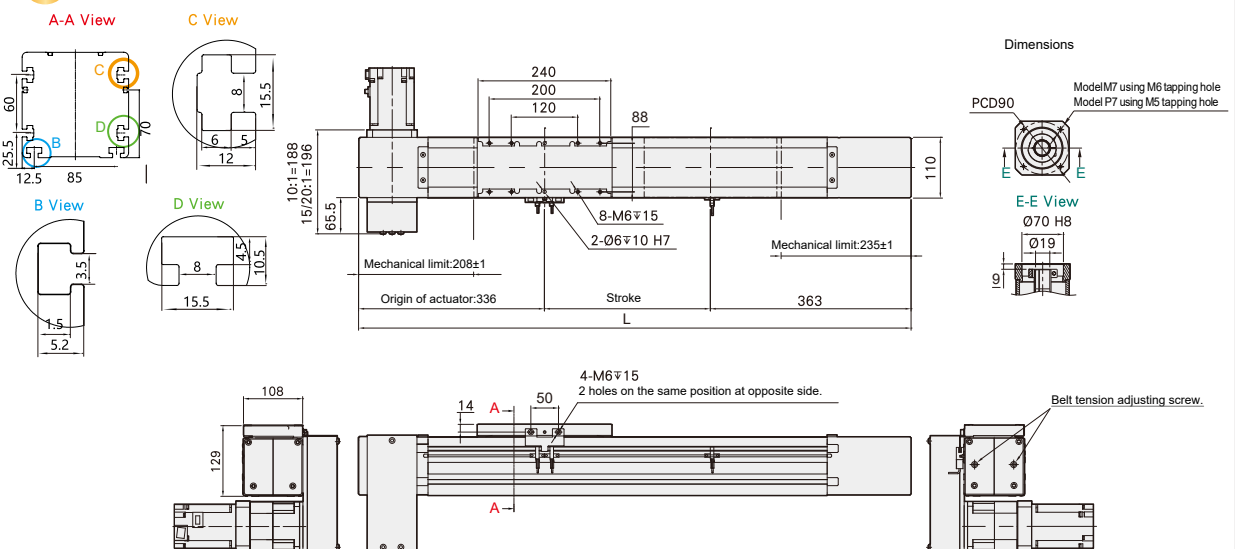


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

RD Motor Right Lower Side

(mm)



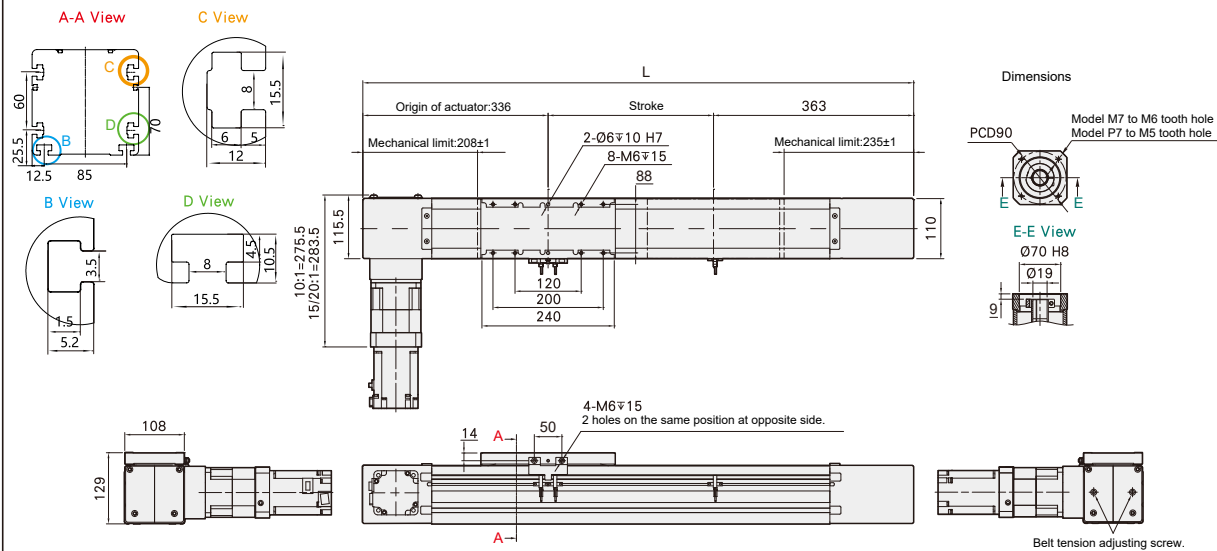
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Reducer With Motor Left Side / Reducer With Motor Right Side

LT Reducer With Motor Left Side

(mm)

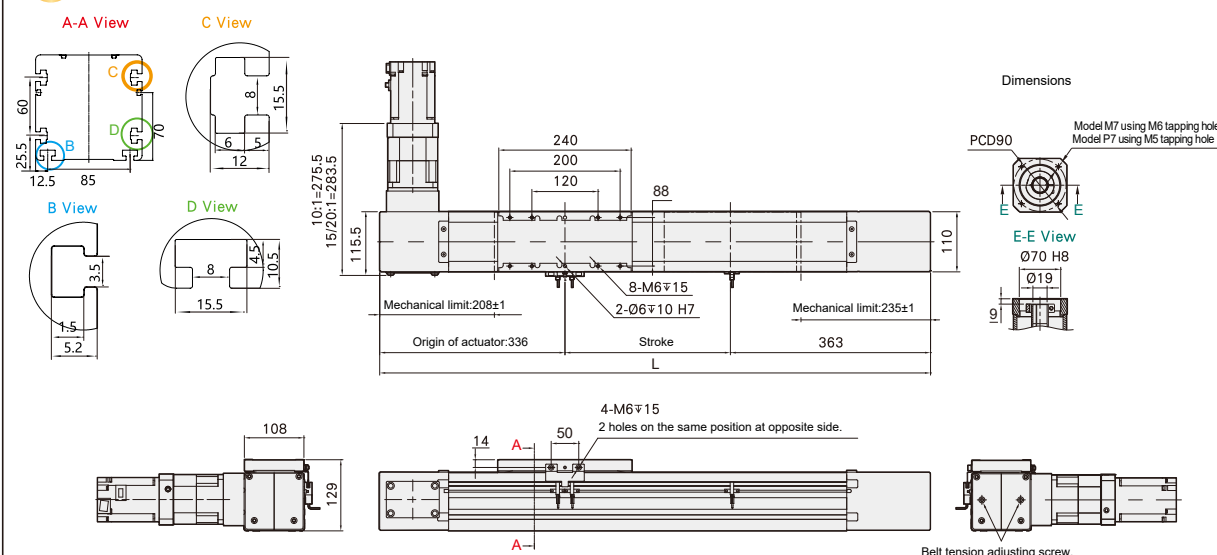


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

RT Reducer With Motor Right Side

(mm)



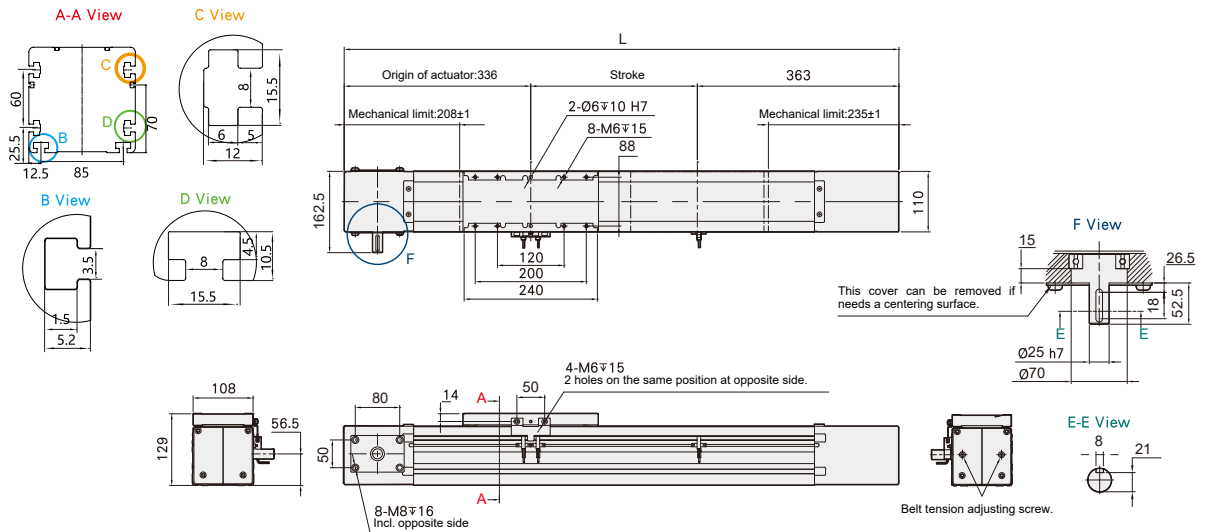
stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

Motor Shaft Left Side / Motor Shaft Right Side

LL Motor Shaft Left Side

(mm)

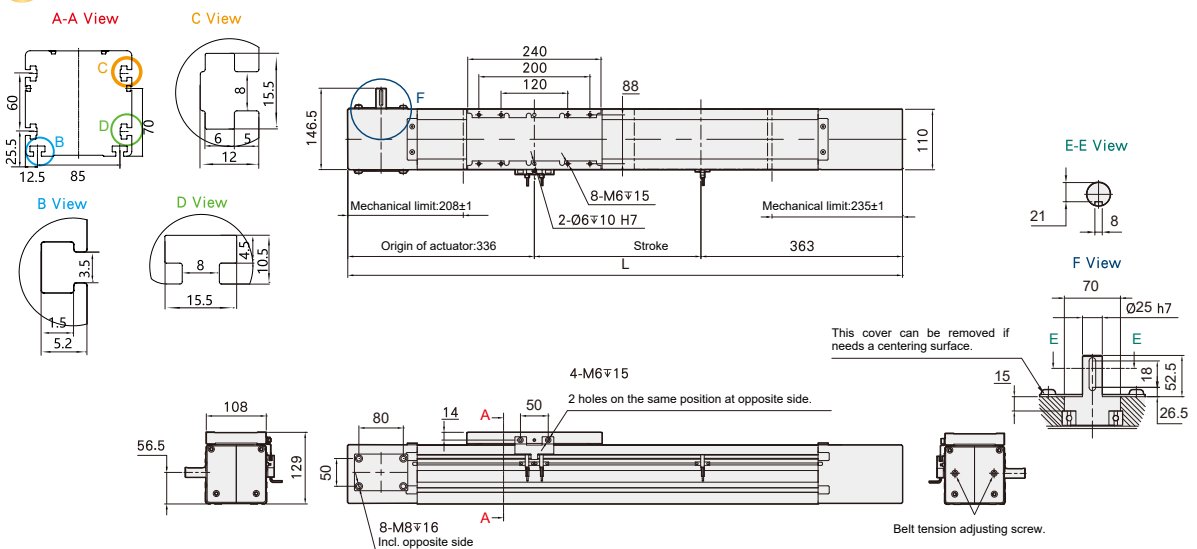


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14

RR Motor Shaft Right Side

(mm)

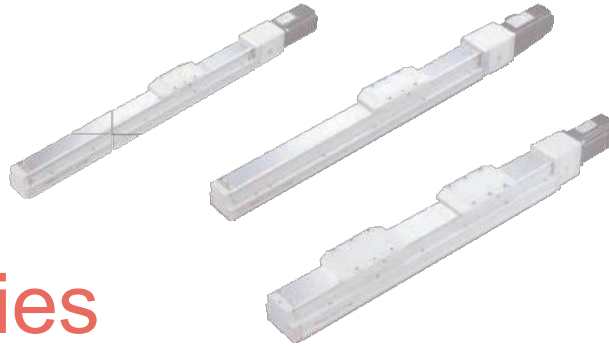


stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38

stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14

MEMO

MEMO



WGTH Series

Standard/Built-in Linear Motion Guide Ball Screw Actuator

CONTENTS

Standard/Ball Screw

SMAL

WGTH4



Body width: 44mm

Maximum travel: 800mm.....83

Maximum Load: 25kg

SMAL

WGTH5



Body width: 54mm

Maximum travel: 800mm.....88

Maximum Load: 30kg

MEDIUM

WGTH8



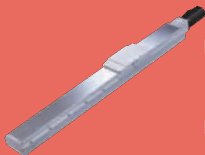
Body width: 82mm

Maximum travel: 1100mm.....91

Maximum Load: 50kg

LARG

WGTH12



Body width: 120mm

Maximum travel: 1250mm.....95

Maximum Load: 110kg

Rail Embedded Slide Table Module

WGTH Built-in Linear Motion Guide Ball Screw Actuator-Slider Type

Environment	Driven Mode	Specification	Motor Output (w)	Width(mm)	Repeatability(mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed (mm/s) ^{*1}
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical	
Standard	Ball screw	WGTH4	50W	44	± 0.02 Turn ± 0.04	10	2	25	8	100
							6	20	5	300
							12	12	2	600
			100W				2	25	8	100
							6	20	8	300
							12	12	3.5	600
		WGTH5	100W	54	± 0.02 Turn ± 0.04	12				
							5	30	10	250
							10	15	5	500
		WGTH8	200W	82	± 0.02 Turn ± 0.04	16	20	10	2.5	1000
							5	50	15	250
							10	30	8	500
		WGTH12	400W	120	± 0.02 Turn ± 0.04	16	20	18	3	1000
							5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600

*The highest speed is based on the maximum servo motor's rpm (3000).

Standard travel and maximum usage record*																									Speed		Page		
Speed	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350		
				100								90	80	70	60	50													121
				300								270	240	210	180	150													
				600								540	480	420	360	300													
				100								90	80	70	60	50													
				300								270	240	210	180	150													
				600								540	480	420	360	300													
																													129
				25								270	200	175	150														
				50								450	400	350	300														
				100								900	800	700	600														
					250												225	200	175	150	125	100	75						133
					500												450	400	350	300	250	200	150						
					00												900	800	700	600	500	400	300						
					25													225	200	175	167	158	150	133	125	117			141
					50													450	400	350	333	317	300	267	250	233			
					100													900	800	700	667	633	600	533	500	467			
					160													1440	1280	1120	1067	1013	900	853	800	747			

*Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious vibration.



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 800mm

Maximum
Speed 600mm/s

Motor output 50W

Ball Screw Φ 10mm

Ordering Method

WGTH4 - L6 - 200 - BC - M05B - C4 - 0001

Model

Stroke

50-800mm
50 mm Pitch

Customization Order No.

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Ball Screw Lead

2	2mm
6	6mm
12	12mm

Motor Brand 、 Power Output

M	Mitsubishi	05	50W	B
P	Panasonic	10	-	
Y	Yaskawa	20	-	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

* When the stroke is 50mm, the sensor installation has the following restrictions:

* Home sensor and limit sensor has to be installed on the different side of body.

* Both sides of slider need to install the sensor trigger device.

Specification

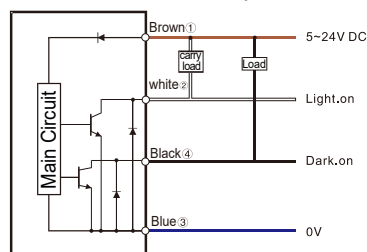
Spec	Repeatability (mm)		± 0.02 (新 ± 0.04)		
	Ball Screw Lead (mm)		2	6	12
	Maximum Speed (mm/s) ※1		100	300	600
	Maximum Payload	Horizontal (kg)	25	20	12
		Vertical (kg)	8	5	2
	Rated Thrust (N)		424	141	71
	Stroke Pitch (mm) ※2		50-800mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		50		
	Ball Screw Ø (mm)		C7Φ 10		
	Coupling (mm)		7X8		
	Home Sensor	Outside	674 (NPN/ PNP)		

※1 Acceleration and deceleration value is set 0.2 second.

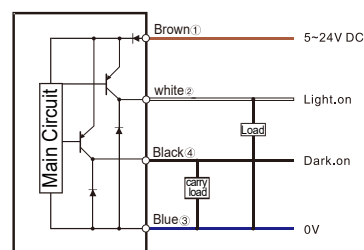
※2 When the stroke is over 550mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. Please refer to P145 for details.

Sensor Layout

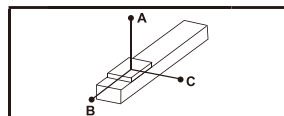
DC four-wire NPN output



DC four-wire PNP output

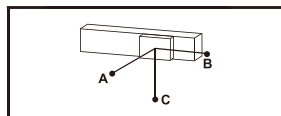


Allowable Overhang



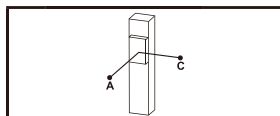
(unit:mm)

Horizontal Installation		A	B	C
2 Lead	12kg	1000	55	80
	18kg	750	35	50
	25kg	500	23	32
6 Lead	10kg	550	53	70
	15kg	350	32	45
	20kg	250	22	31
12 Lead	8kg	305	59	75
	10kg	240	45	57
	12kg	195	37	47



(unit:mm)

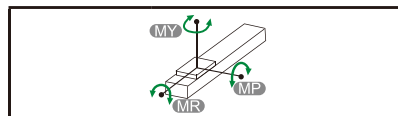
Wall Installation		A	B	C
2 Lead	12kg	80	55	1000
	18kg	50	35	750
	25kg	32	23	500
6 Lead	10kg	72	52	550
	15kg	45	32	345
	20kg	31	22	250
12 Lead	8kg	75	59	300
	10kg	58	45	240
	12kg	47	37	190



(unit:mm)

Vertical installation		A	C
2 Lead	4kg	200	200
	8kg	100	100
	-	-	-
6 Lead	3kg	200	200
	5kg	120	120
	-	-	-
12 Lead	1.5kg	350	350
	2kg	260	260
	-	-	-

Static Loading Moment



(unit:mm)

MY	79
MP	79
MR	116

•The torque value in the chart indicate the center of gravity.
 •Operation life is 10,000km when the product is using under the specified conditions.
 •Data information is not for ceiling-mount inverse use.
 •Contact us for the details if you want to apply ceiling-mount inverse usage.

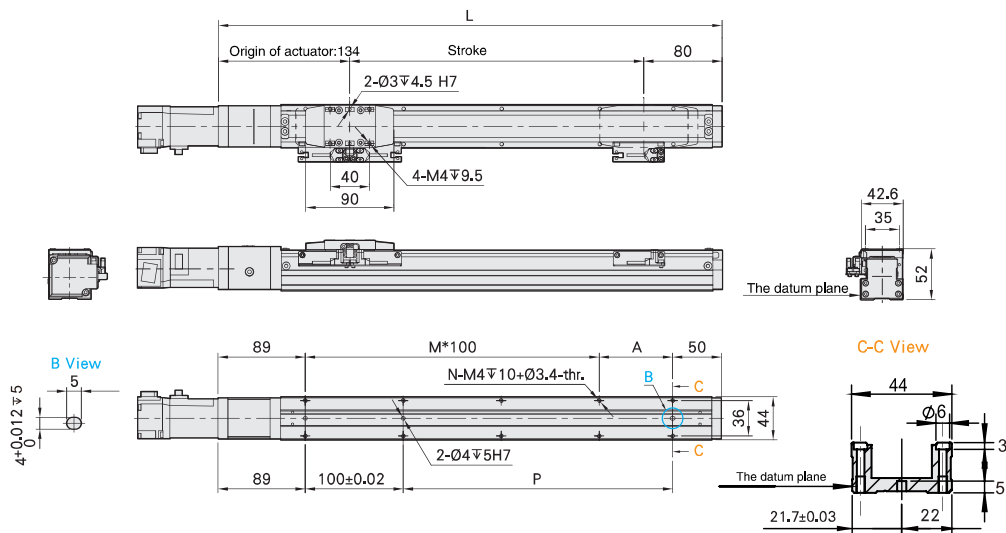
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	50	220	HG-KR053	MR-J4-10A
		With Brake (Vertical Type)	50	220	HG-KR053B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	50	220	MSMD5A2G1U	MADHT1505
		With Brake (Vertical Type)	50	220	MSMD5A2G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	50	220	ECMA-C1040FES	ASD-B20121-B
		With Brake (Vertical Type)	50	220	ECMA-C1040FFS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

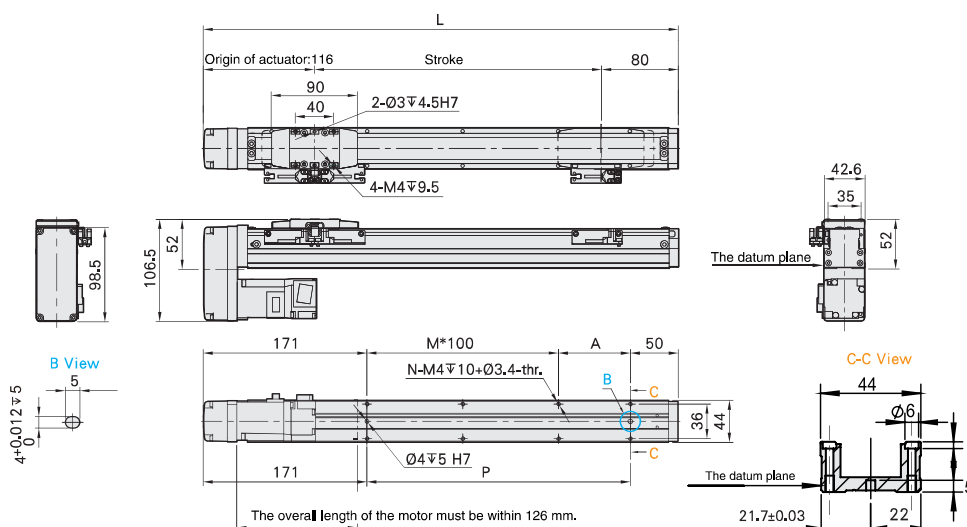


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	0.95	1.12	1.29	1.47	1.65	1.83	20.1	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63

BM Motor Bottom Side

Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

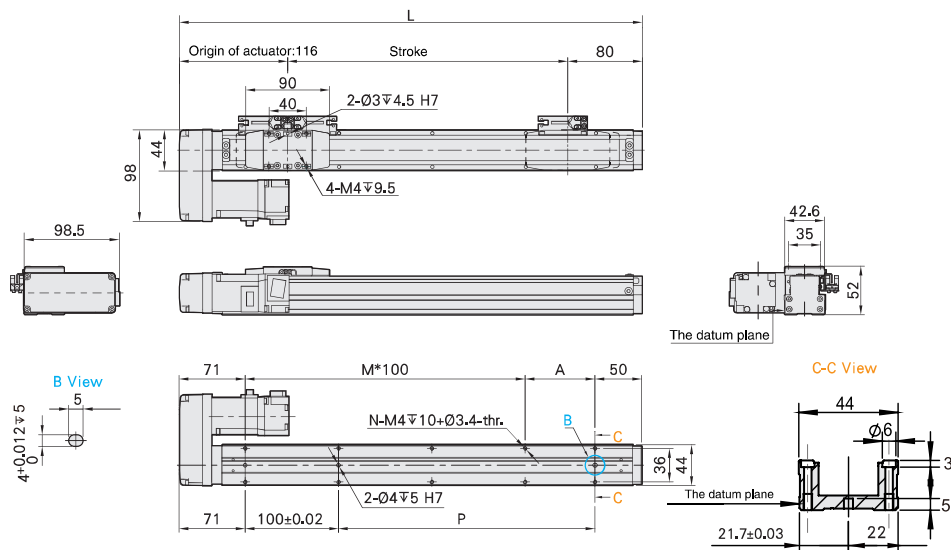
Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

Unit : mm

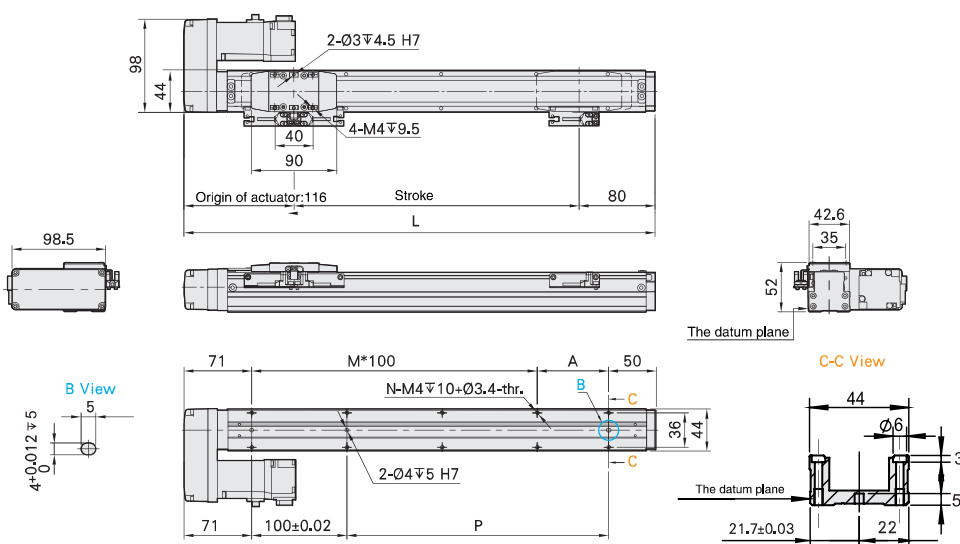


When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

BR Motor Right Side

Unit : mm



When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74



The picture is just for the reference. Please check the the actual dimensions on the d rawing.

Maximum
Stroke 800mm

Maximum
Speed 600mm/s

Motor output 100W

Ball Screw Φ 12mm

Ordering Method

WGTH5 - L5 - 200 - BC - M10B - C4 - 0001

Model

Customization Order No.

Stroke

50-800mm

50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Ball Screw Lead

2	2mm
6	6mm
12	12mm

Motor Brand , Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	100W	
Y	Yaskawa	20	-	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

* When the stroke is 50mm, the sensor installation has the following restrictions:
 * Home sensor and limit sensor has to be installed on the different side of body.
 * Both sides of slider need to install the sensor trigger device.

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Specification

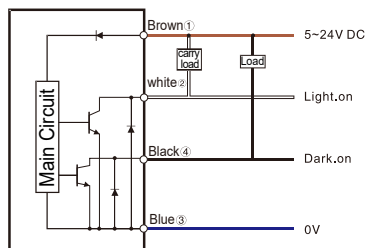
Spec	Repeatability (mm)		±0.005		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)※1		250	500	1000
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm)※2		50-800mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw Ø (mm)		C7Φ 12		
	Coupling (mm)		7X8		
	Home Sensor	Outside	67 4 (NPN / PNP)		

Acceleration and deceleration value is set 0.2 second.

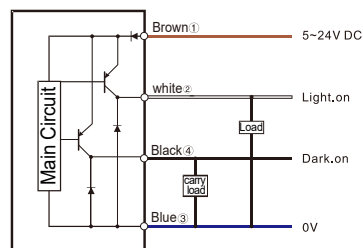
When the stroke is over 550mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. Please refer to P145 for details.

Sensor Layout

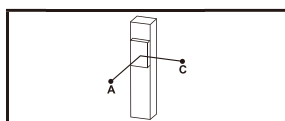
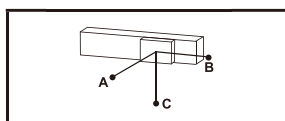
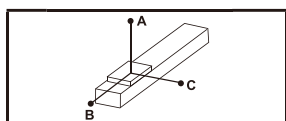
DC four-wire NPN output



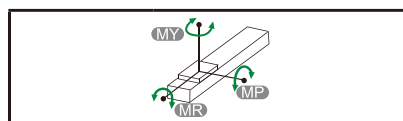
DC four-wire PNP output



Allowable Overhang



Static Loading Moment



(unit:mm)

Horizontal Installation		A	B	C
5 Lead	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
10 Lead	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
20 Lead	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60

(unit:mm)

Wall Installation		A	B	C
5 Lead	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
10 Lead	5 kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
20 Lead	5 kg	130	120	320
	8 kg	75	70	220
	10kg	60	55	170

(unit:mm)

Vertical installation		A	C
5 Lead	6 kg	145	145
	8 kg	110	110
	10kg	90	90
10 Lead	1kg	800	800
	3kg	260	260
	5kg	155	155
20 Lead	1 kg	600	600
	2 kg	300	300
	2.5 kg	250	250

(unit:mm)

MY	79
MP	79
MR	116

• The torque value in the chart indicate the center of gravity.
• Operation life is 10,000km when the product is using under the specified conditions.
• Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

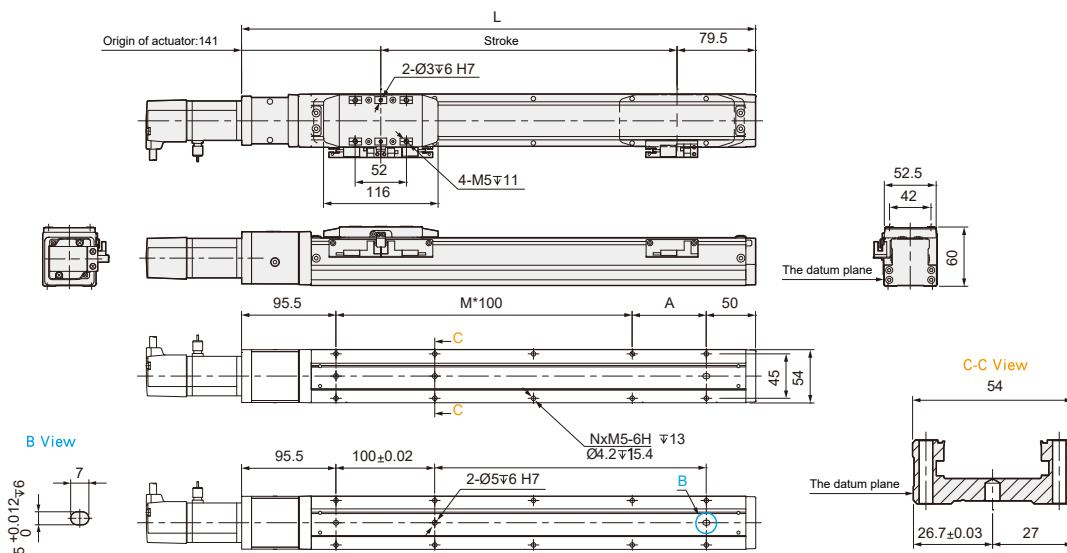
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

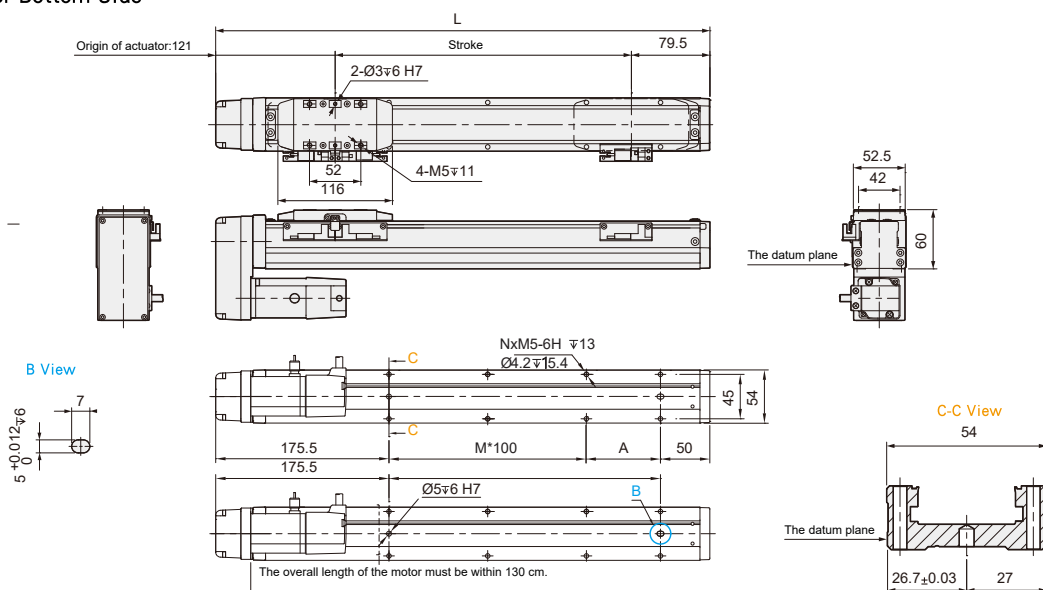
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.23	2.42	2.62	2.82	3.01	3.21	3.41	3.6	3.8	4	4.19	4.39	4.59	4.78	4.98	5.18

BM Motor Bottom Side

Unit : mm



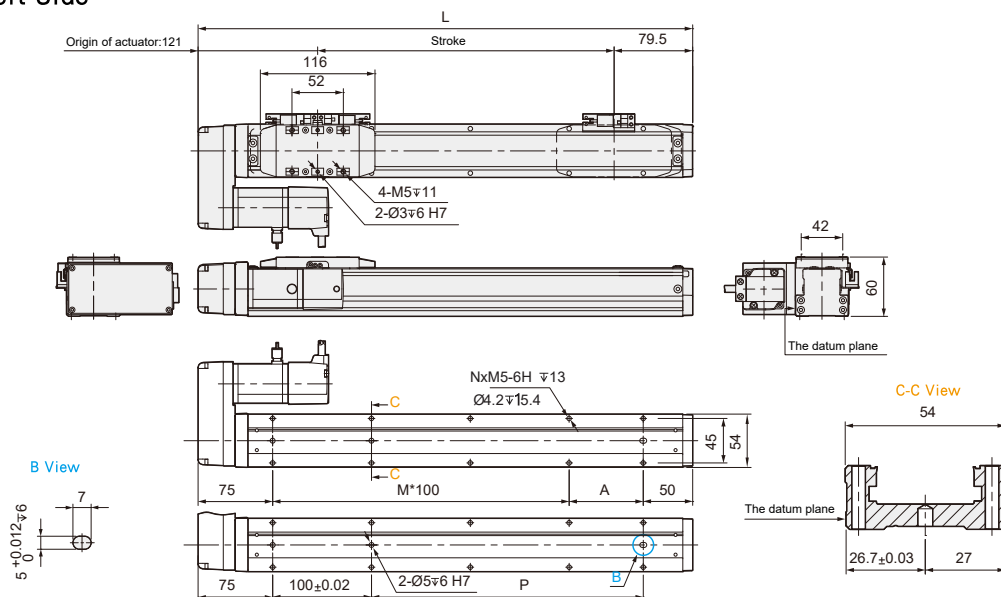
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

Unit : mm

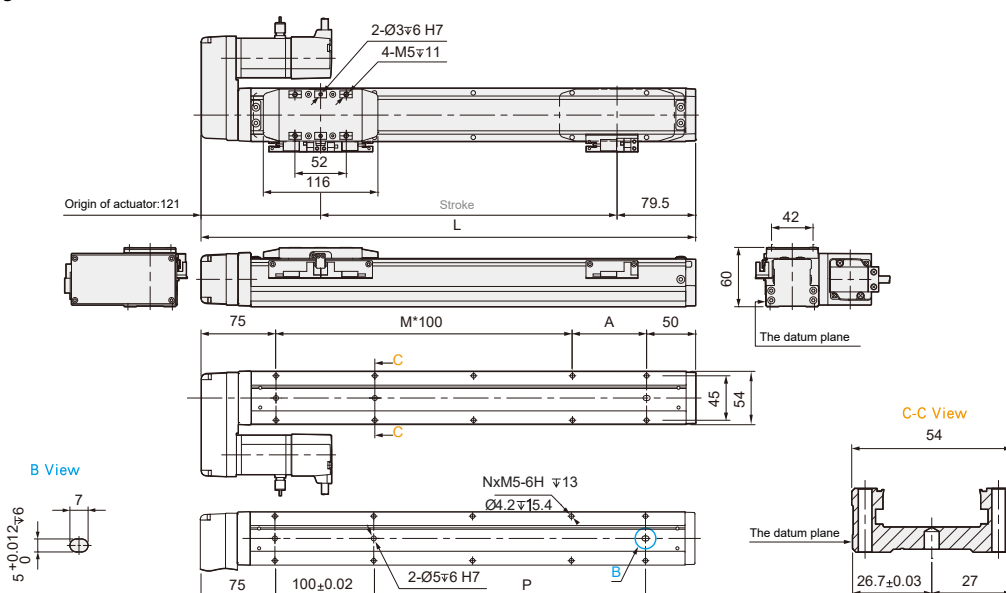
BL Motor Left Side



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

Unit : mm

BR Motor Right Side



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.4	2.59	2.79	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35



The picture is just for the reference. Please check the the actual dimensions on the d rawing.

Maximum
Stroke 1100mm

Maximum
Speed 1000mm/s

Motor output 200W

Ball Screw Φ 16mm

Ordering Method

WGTH8 - L20 - 200 - BC - M20B - C4 - 0001

Model

Customization Order No.

Stroke

50-1100mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand 、 Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	-	
Y	Yaskawa	20	200W	
T	Delta	40	-	

※ If No Brake, No Description.

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

When the stroke is 50mm, the sensor installation has the following restrictions:
C4 & D4 will not be available for installation (order) option.
Home sensor and limit sensor has to be installed on the different side of body.
Both sides of slider need to install the sensor trigger device.

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm

Specification

Spec	Repeatability(mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s) ※1		250	500	1000
	Maximum Payload	Horizontal (kg)	50	30	18
		Vertical (kg)	15	8	3
	Rated Thrust (N)		683	341	174
	Stroke Pitch (mm) ※2		50-1100mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		200		
	Ball Screw Ø (mm)		C7Φ 16		
	Coupling (mm)		10X14/11 [Note]		
	Home Sensor	Outside	674 (NPN/PNP)		

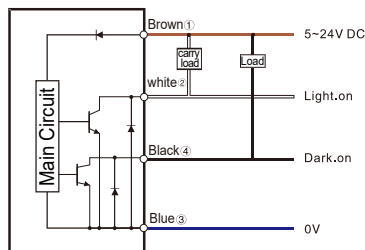
Acceleration and deceleration value is set 0.2 second.

When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. Please refer to P145 for details.

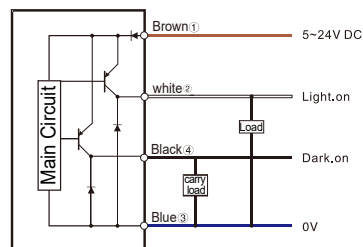
Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

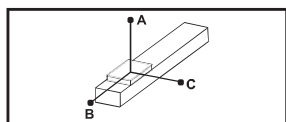
DC four-wire NPN output



DC four-wire PNP output

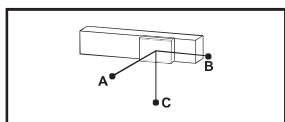


Allowable Overhang



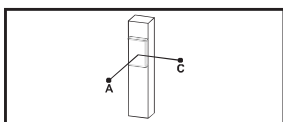
(unit:mm)

Horizontal Installation		A	B	C
5 Lead	20kg	1560	153	237
	35kg	890	8	126
	50kg	550	53	82
10 Lead	10kg	1730	286	412
	20kg	839	136	196
	30kg	54	86	124
20 Lead	6kg	1213	403	493
	9kg	800	264	323
	12kg	592	194	238



(unit:mm)

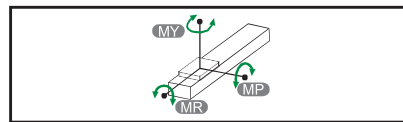
Wall Installation		A	B	C
5 Lead	20kg	214	153	1435
	35kg	113	8	845
	50kg	74	53	506
10 Lead	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
20 Lead	6kg	444	403	760
	9kg	292	264	650
	12kg	214	194	544



(unit:mm)

Vertical Installation		A	C
5 Lead	10kg	33	33
	15kg	220	220
10 Lead	5kg	589	589
	8kg	368	368
20 Lead	2.5kg	935	935

Static Loading Moment



(unit:mm)

MY	318
MP	318
MR	626

The torque value in the chart indicate the center of gravity.
Operation life is 10,000km when the product is using under the specified conditions.

Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

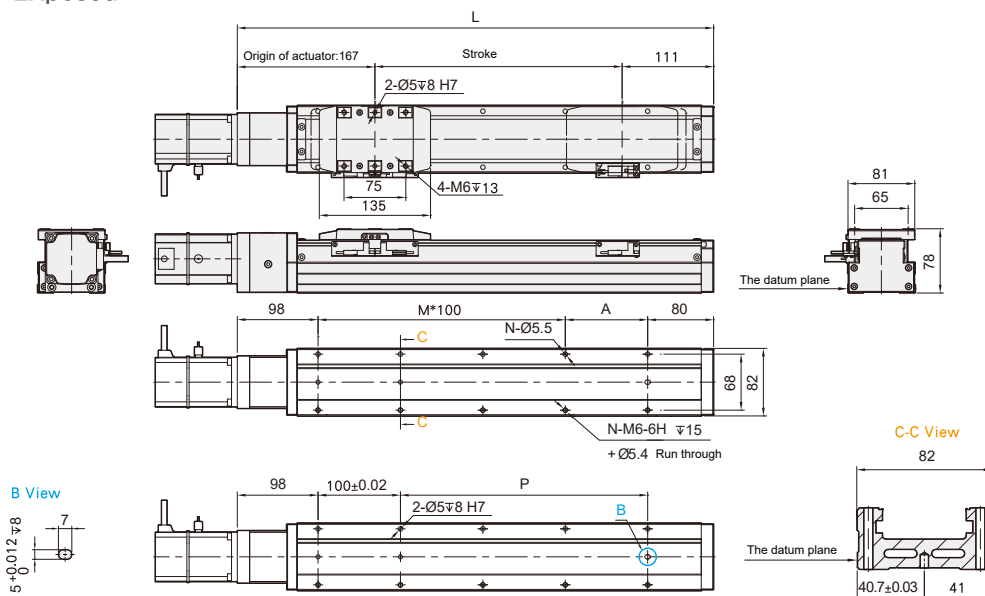
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Exposed / Motor Bottom Side

Unit : mm

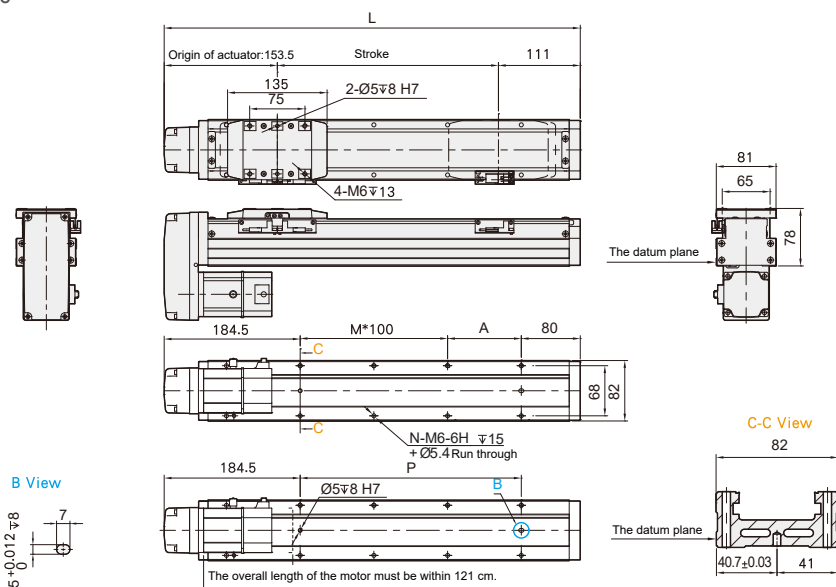
BC Motor Exposed



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
KG	5.18	5.54	5.91	6.27	6.64	7	7.37	7.73	8.1	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.11	12.48

BM Motor Bottom Side

Unit : mm



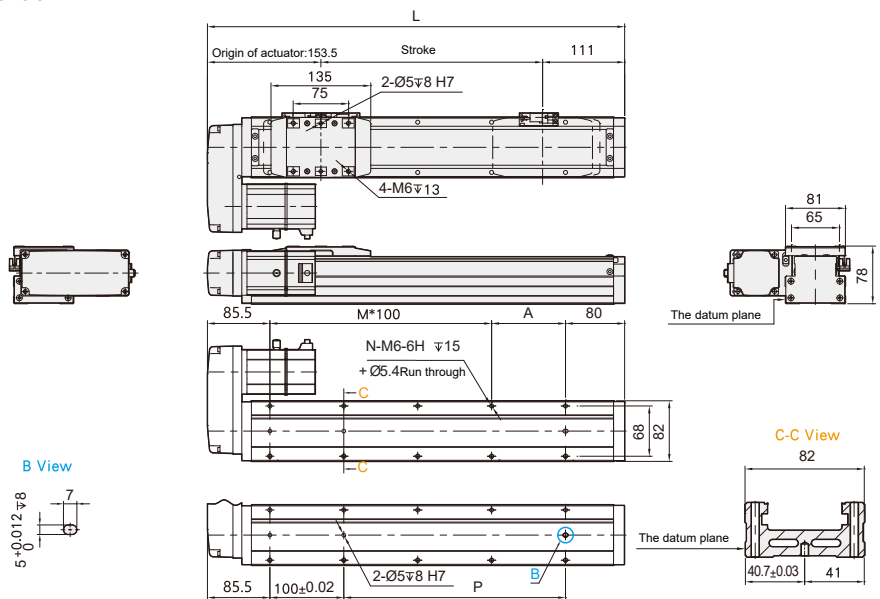
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	050
L	315.5	365.5	415.5	465.5	515.5	565.5	615.5	665.5	715.5	765.5	815.5	865.5	915.5	965.5	1015.5	1065.5	1115.5	1165.5	1215.5	1265.5	1315.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48

When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

Unit : mm

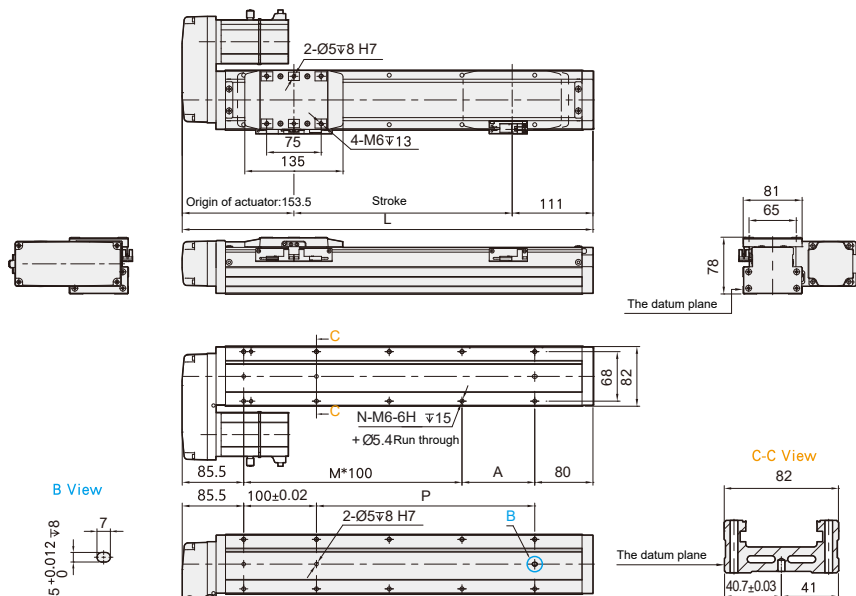
BL Motor Left Side



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	315.5	365.5	415.5	465.5	515.5	565.5	615.5	665.5	715.5	765.5	815.5	865.5	915.5	965.5	1015.5	1065.5	1115.5	1165.5	1215.5	1265.5	1315.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48

BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	315.5	365.5	415.5	465.5	515.5	565.5	615.5	665.5	715.5	765.5	815.5	865.5	915.5	965.5	1015.5	1065.5	1115.5	1165.5	1215.5	1265.5	1315.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
KG	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1250mm

Maximum
Speed 600mm/s

Motor output 400W

Ball Screw Φ 16mm

Ordering Method

WGTH12 - L10 - 200 - BC - M40B - C4 - 0001

Model

Customization Order No.

Stroke

50-1250mm
50 mm Pitch

Motor Position

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand 、 Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	-	
Y	Yaskawa	20	200W	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

When the stroke is 50mm, the sensor installation has the following restrictions:
C4 & D4 will not be available for installation (order) option.
Home sensor and limit sensor has to be installed on the different side of body.
Both sides of slider need to install the sensor trigger device.

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

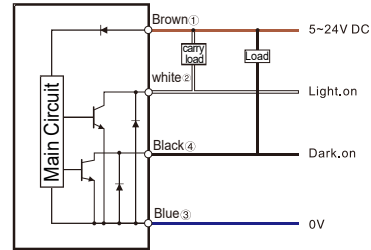
Specification

Spec	Repeatability(mm)		±0.02 (新±0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)※1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)		1388	694	347	218
	Stroke Pitch (mm) ※2		50-1250mm / 50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw Ø (mm)		C7Φ16			
	Coupling (mm)		10X14			
	Home Sensor	Outside	674 (NPN/ PNP)			

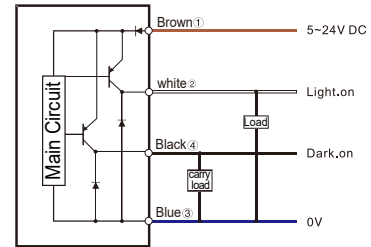
When the stroke is over 750mm, the run-out of the ballscrew will occur. Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.
Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

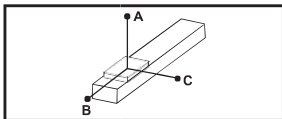
DC four-wire NPN output



DC four-wire PNP output

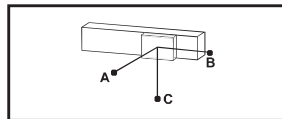


Allowable Overhang



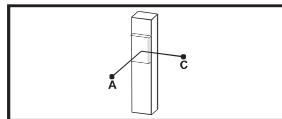
(unit:mm)

Horizontal Installation		A	B	C
5 Lead	60kg	2850	250	340
	80kg	2100	180	250
	110kg	1500	120	170
10 Lead	30kg	2850	490	600
	50kg	1700	280	350
	88kg	950	140	190
20 Lead	10kg	3400	1250	1400
	22kg	1650	550	620
	40kg	900	290	330
32 Lead	15kg	1100	570	550
	25kg	620	330	320
	30kg	520	270	260



(unit:mm)

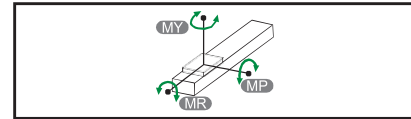
Wall Installation		A	B	C
5 Lead	55kg	280	280	3300
	75kg	200	195	2400
	110kg	130	125	1550
10 Lead	35kg	400	410	2500
	55kg	245	250	1550
	88kg	150	150	950
20 Lead	12kg	900	1070	3000
	20kg	550	630	1800
	40kg	260	300	900
32 Lead	15kg	440	570	1050
	30kg	210	270	520



(unit:mm)

Vertical installation		A	C
5 Lead	15kg	1200	1200
	22kg	820	820
	33kg	550	550
10 Lead	10kg	1600	1600
	14kg	1150	1150
	22kg	730	730
20 Lead	7kg	1800	1800
	10kg	1250	1250
32 Lead	5kg	1600	1600
	8kg	1000	1000

Static Loading Moment



(unit:mm)

MY	606
MP	606
MR	1168

The torque value in the chart indicate the center of gravity.
Operation life is 10,000km when the product is using under the
Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount
inverse usage.

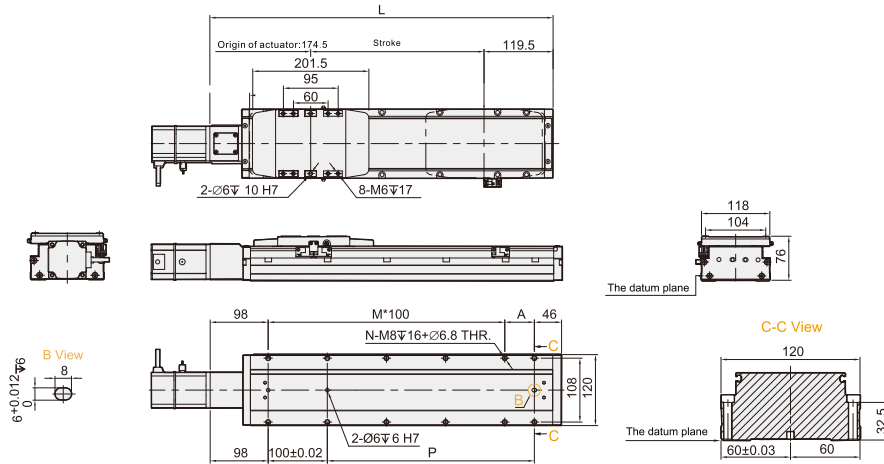
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MSMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MSMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

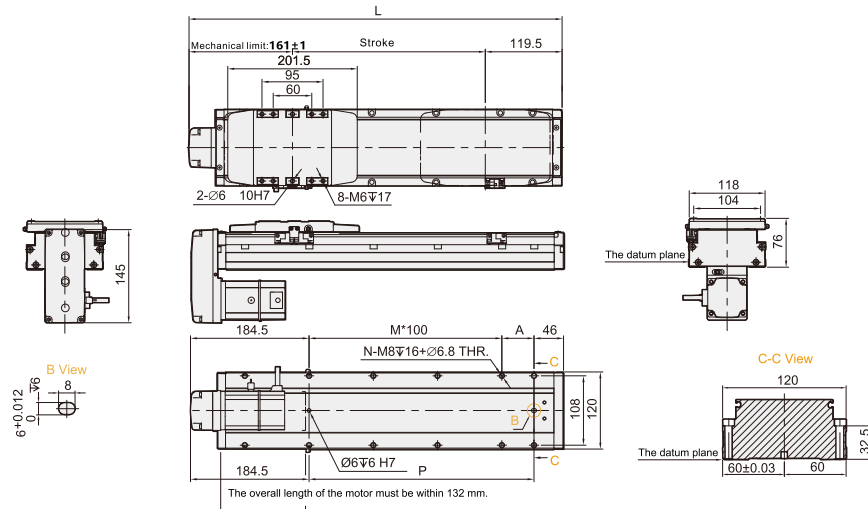
(Unit : mm)



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45

BM Motor Bottom Side

(Unit : mm)



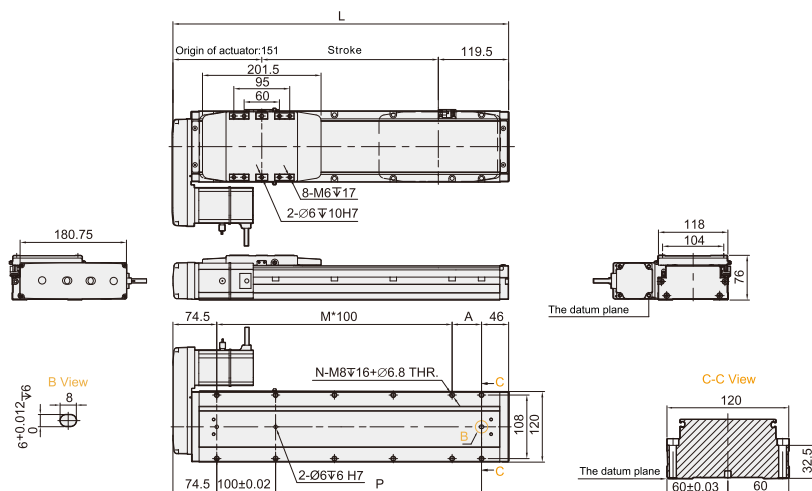
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

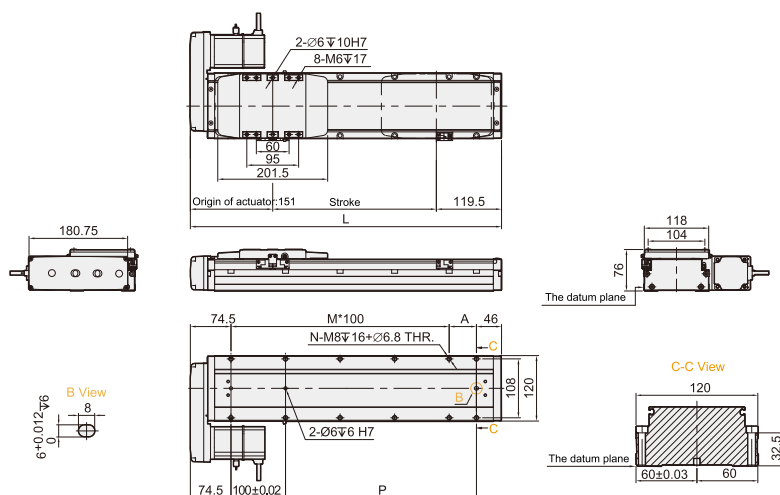
(Unit : mm)



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100		100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.91	13.26	13.61	

BR Motor Right Side

(Unit : mm)



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1050	1100	1150	1200	1250	1300	1350
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.91	13.26	13.61	

MEMO

WETH Series

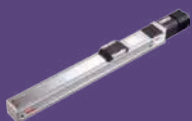
Standard/Ball Screw

CONTENTS

Standard/Ball Screw Type

SMALL

WETH5M



Body width 52mm
Maximum stroke 800mm...105
Maximum Load 10kg

MEDIUM

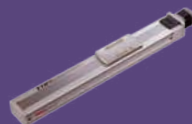
WETH14



Body width 135mm
Maximum stroke 1050mm...147
Maximum Load 110kg

SMALL

WETH6M



Body width 65mm
Maximum stroke 800mm...113
Maximum Load 30kg

LARGE

WETH17



Body width 170mm
Maximum stroke 1250mm...157
Maximum Load 120kg

MEDIUM

WETH10



Body width 105mm
Maximum stroke 1050mm...121
Maximum Load 50kg

LARGE

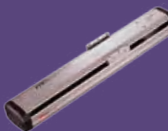
WETH22



Body width 220mm
Maximum stroke 1500mm...166
Maximum Load 150kg

MEDIUM

WETH12



Body width 102mm
Maximum stroke 1050mm...127
Maximum Load 50kg

LARGE

WETH17M



Body width 170mm
Maximum stroke 2200mm...176
Maximum Load 120kg

MEDIUM

WETH13



Body width 135mm
Maximum stroke 1050mm...137
Maximum Load 70kg

LARGE

WETH22M



Body width 220mm
Maximum stroke 2400mm...180
Maximum Load 130kg

Specification Index - Standard Screw Sample Slide Table Series

Use Where	Driven Mode	Model Specification	Motor Output (w)	Width(mm)	Repeatability (mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed (mm/s) ^{*1}
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical	
Standard Environment	Ball Screw	WETH5M	42M (Stepping Motor)	51	± 0.02 Turn ± 0.04	12	2	10	7	16
							5	10	3	41
							10	5	1.5	83
							20	3	1.5	166
			100W	51	± 0.02 Turn ± 0.04	12	2	10	7	100
							5	10	3	250
							10	5	1.5	500
							20	3	1.5	1000
		WETH6M	57M (Stepping Motor)	65	± 0.02 Turn ± 0.04	12	2	30	15	16
							5	30	10	41
							10	15	5	83
							20	10	2	166
			100W	65	± 0.02 Turn ± 0.04	12	2	30	15	100
							5	30	10	250
							10	15	5	500
							20	10	2	1000
		WETH10	100W	102	± 0.02 Turn ± 0.04	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	-	1600
			200W	102	± 0.02 Turn ± 0.04	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	-	1600
		WETH12	100W	102	± 0.02 Turn ± 0.04	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	-	1600
			200W	102	± 0.02 Turn ± 0.04	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
							32	5	-	1600
		WETH13	200W	135	± 0.02 Turn ± 0.04	16	5	70	17	250
							10	47	12	500
							20	24	6	1000
							32	13	-	1600
			400W	135	± 0.02 Turn ± 0.04	16	5	70	17	250
							10	47	12	500
							20	24	6	1000
							32	13	-	1600
		WETH14	200W	135	± 0.02 Turn ± 0.04	16	5	95	27	250
							10	75	18	500
							20	35	7	1000
							32	15	-	1600
			400W	135	± 0.02 Turn ± 0.04	16	5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600

*The highest speed is based on the maximum servo motor's rpm (3000).

*The highest speed is based on the maximum stepping motor's rpm (500).

Standard Screw Slide Module

Stroke(mm) & Maximum Speed(mm/s)*2																				Speed															
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500					
						16																													
						41																													
						83																													
						166																													
						100							90	80	70	60																			
						250							225	200	175	150																			
						500							450	400	350	300																			
						1000							900	800	700	600																			
						16																													
						41																													
						83																													
						166																													
						100							90	80	70	60																			
						250							225	200	175	150																			
						500							450	400	350	300																			
						1000							900	800	700	600																			

*Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious vibration.

Standard Screw Slide Module

Use Where	Driven Mode	Model Specification	Motor Output (w)	Width(mm)	Repeatability (mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed ^{*1} (mm/s)
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical	
Standard Environment	Ball Screw	WETH17	400W	170	± 0.02 Turn ± 0.04	20	5	120	40	250
							10	110	30	500
							20	75	14	1000
							40	22	7	2000
		750W	750W	170	± 0.02 Turn ± 0.04	20	5	120	50	250
							10	120	40	500
							20	83	25	1000
							40	43	12	2000
		WETH22	750W	220	± 0.02 Turn ± 0.04	25	5	150	55	250
						25	10	150	45	500
						25	25	105	20	1250
						20	40	43	12	2000

*The highest speed is based on the maximum servo motor's rpm (3000).

Long Stroke Ball Screw Actuator

Use Where	Driven Mode	Model Specification	Motor Output (w)	Width(mm)	Repeatability (mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed ^{*1} (mm/s)
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical	
Standard Environment	Ball Screw	WETH17M	400W	170	± 0.02 Turn ± 0.04	16	5	110	33	200
							10	90	22	400
							20	40	10	800
							32	30	8	1280
		750W	750W	170	± 0.02 Turn ± 0.04	16	5	120	40	200
							10	95	25	400
							20	50	15	800
							32	35	12	1280
		WETH22M	750W	220	± 0.02 Turn ± 0.04	20	5	130	50	200
							10	130	40	400
							20	85	25	800
							40	43	12	1600

Customizable for clean room type.

*The ETH17M , ETH22M highest speed is based on the maximum servo motor's rpm (2400).

Standard Screw Slide Module

Stroke(mm) & Maximum Speed(mm/s)*2																												Speed			
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
										250								225	200		175	150									
										500								450	400		350	300									
										1000								900	800		700	600									
										2000								1800	1600		1400	1200									
										250								225	200		175	150									
										500								450	400		350	300									
										1000								900	800		700	600									
										2000								1800	1600		1400	1200									
										250								225	200		175	150						125		100	
										500								450	400		350	300						250		200	
										1250								1125	1000		875	750						625		500	
										2000								1800	1600		1400	1200						1000		800	600

*2Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious virbration.

Stroke(mm) & Maximum Speed(mm/s)*2																										Speed	
Stroke	800	850	900	950	1000	1100	1200	1300	1400	1500	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
							200						175				150				125						
							400						350				300				250						
							800						700				600				500						
							1280						1120				960				800						
							200						175				150				125						
							400						350				300				250						
							800						700				600				500						
							1280						1120				960				800						
							200														175					150	
							400														350					300	
							800														700					600	
							1600														1400					1200	

*2Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious virbration.



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **166mm/s**

Maximum Static Torque **0.32N.m.**

Ball Screw **Ø 12mm**

Linear Guide **24X8,5 1 piece**

型號表示方式 Ordering Method

WETH5M- L 5 - 50 - BC - 42 M - C 4 - 0001

Model

Special Order No.

Stroke

50-800mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand. Model

Tamaga wa	TS3617N3E8
Oriental	PK245-01A
Sanyo	103H5209-0440

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3Pc
5	No Sensor

Ball Screw Lead

02	2mm
05	5mm
10	10mm
20	20mm

Specification

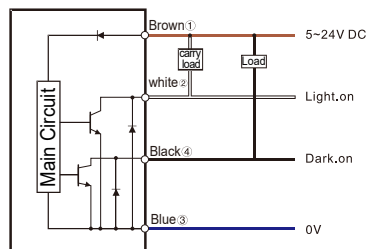
Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		40	80	160
	Maximum Payload	Horizontal (kg)	10	5	3
		Vertical (kg)	3	1.5	1.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	(N.m)		0.32		
	Ball Screw ϕ (mm)		C7 ϕ 12		
	High Rigidity Linear Guide (mm)		W24XH8.5		
	Coupling (mm)		8X5		
	Home Sensor	Outside	672 (NPN/ PNP)		

When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

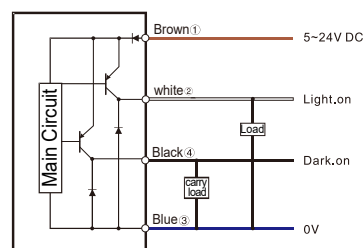
Acceleration and deceleration value is set 0.2 second.

Sensor Layout

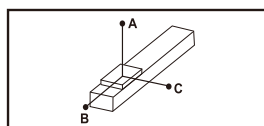
DC four-wire NPN output



DC four-wire PNP output

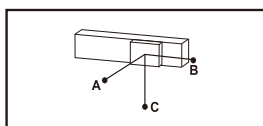


Allowable Overhang



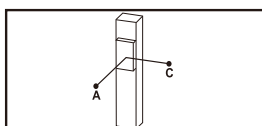
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	5kg	280	24	55
	10kg	120	10	22
10 Lead	3kg	245	40	78
	5kg	140	22	43
20 Lead	2kg	153	50	79
	3kg	99	32	50



(Unit : mm)

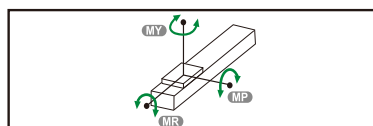
Wall Installation		A	B	C
5 Lead	5kg	51	30	300
	10kg	20	15	195
10 Lead	3kg	74	37	231
	5kg	40	20	131
20 Lead	2kg	75	48	148
	3kg	48	30	95



(Unit : mm)

Vertical Installation		A	C
5 Lead	1kg	140	140
	3kg	47	47
10 Lead	1kg	125	125
	1.5kg	83	83
20 Lead	1kg	100	100
	1.5kg	66	66

Static Loading Moment



(Unit : mm)

MY	16
MP	20
MR	19

*The torque value in the chart indicate the center of gravity.
 *Operation life is 5,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

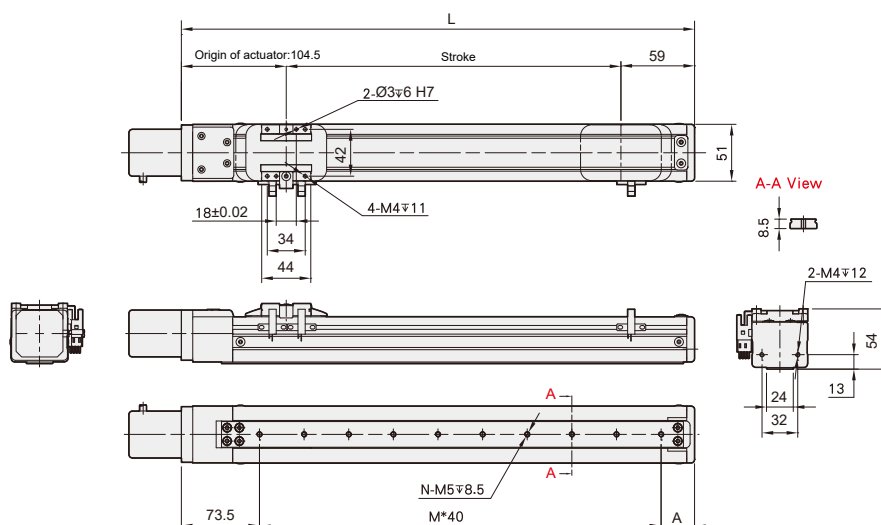
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.32	DC24V	two-phase- TS3617N3E8	CD-2D34M Resolution 200/400/800/1600
Oriental	0.32	Single-phase 100V	two-phase- PK245-01A	UDK2112 Resolution 200/400/800/1600/3200
Sanyo	0.32	DC24V	two-phase-103H5209-0440	US1D200P10 Resolution 200/400/800/1600/3200

Motor Exposed / Motor Bottom Side

BC Motor Exposed

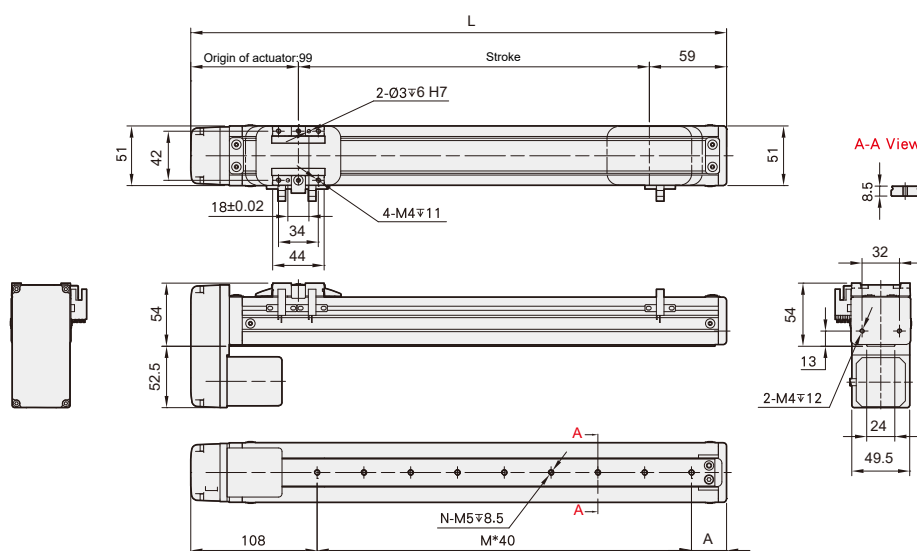
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	213.5	263.5	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

BM Motor Bottom Side

Unit : mm

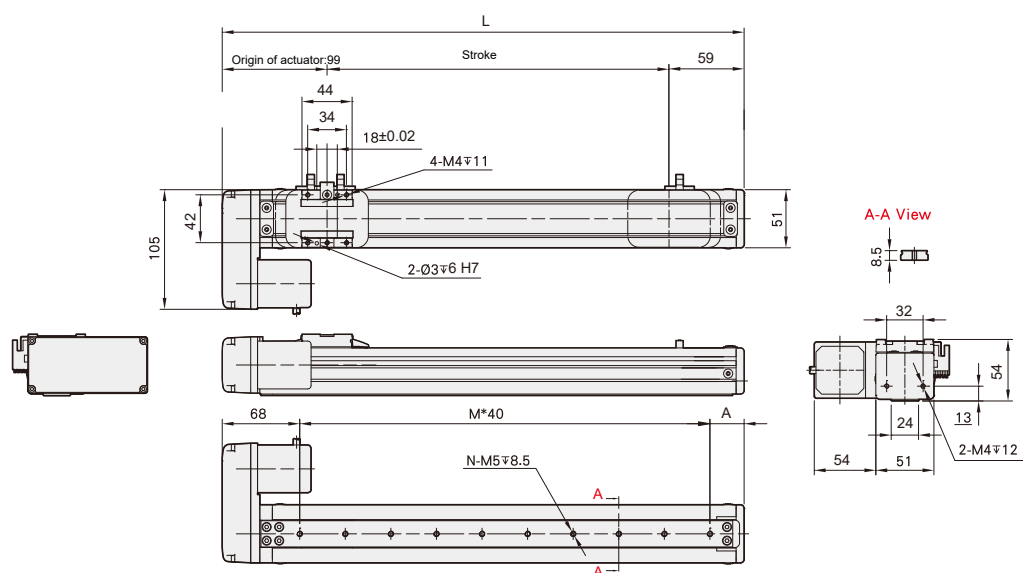


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	1	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

Motor Left Side / Motor Right Side

BL Motor Left Side

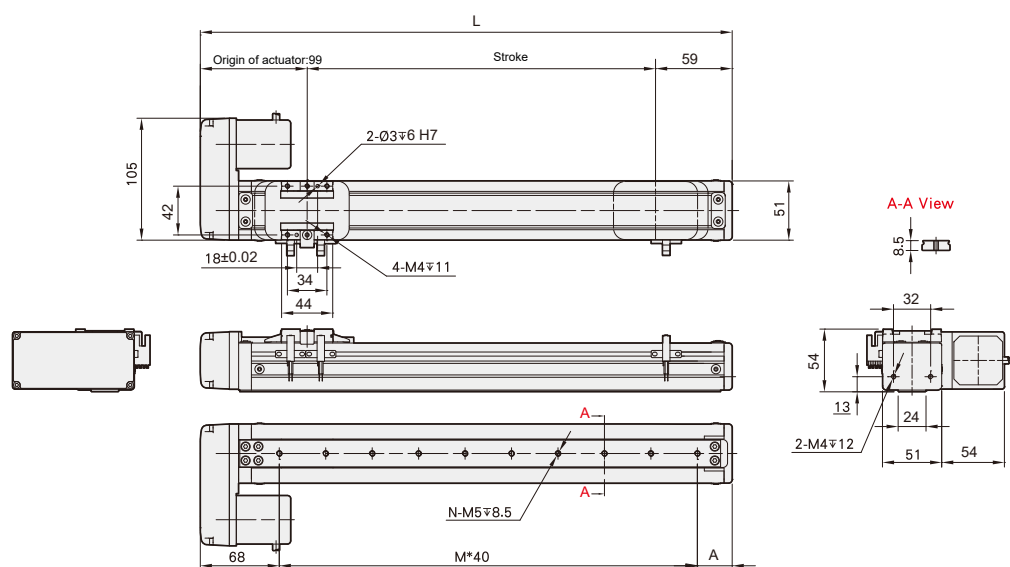
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **166mm/s**

Motor Output **100W**

Ball Screw **Ø 12mm**

Linear Guide **24X8.5**
1 piece

Ordering Method

WETH5M- L 5- 50 - BC - M10 - C 4 - 0001

Model

Special Order No.

Stroke

50-800mm
50 mm Pitch

Motor Position

Ball Screw Lead

02	2mm
05	5mm
10	10mm
20	20mm

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand, Model

M	Mitsubishi	10	100W	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	-	

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Specification

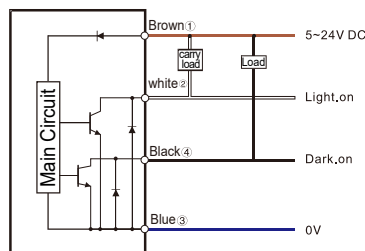
Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal (kg)	10	5	3
		Vertical (kg)	3	1.5	1.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw ϕ (mm)		C7 ϕ 12		
	High Rigidity Linear Guide (mm)		W24XH8.5		
	Coupling (mm)		8X8		
	Home Sensor	Outside	672 (NPN/ PNP)		

*When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

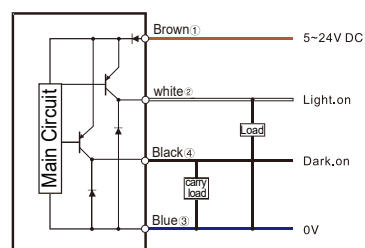
*Acceleration and deceleration value is set 0.2 second.

Sensor Layout

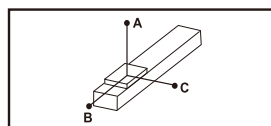
DC four-wire NPN output



DC four-wire PNP output

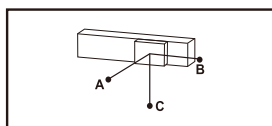


Allowable Overhang



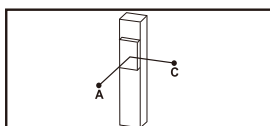
(Unit : mm)

		A	B	C
5 Lead	5kg	280	24	55
	10kg	120	10	22
10 Lead	3kg	245	40	78
	5kg	140	22	43
20 Lead	2kg	153	50	79
	3kg	99	32	50



(Unit : mm)

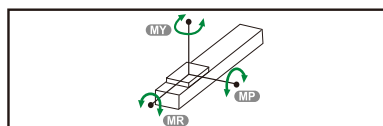
		A	B	C
5 Lead	5kg	51	30	300
	10kg	20	15	195
10 Lead	3kg	74	37	231
	5kg	40	20	131
20 Lead	2kg	75	48	148
	3kg	48	30	95



(Unit : mm)

		C
5 Lead	1kg	140
	3kg	47
10 Lead	1kg	125
	1.5kg	83
20 Lead	1kg	100
	1.5kg	66

Static Loading Moment



(Unit : mm)

MY	16
MP	20
MR	19

*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions.

*Data information is not for ceiling-mount inverse use.

*Contact us for the details if you want to apply ceiling-mount inverse usage.

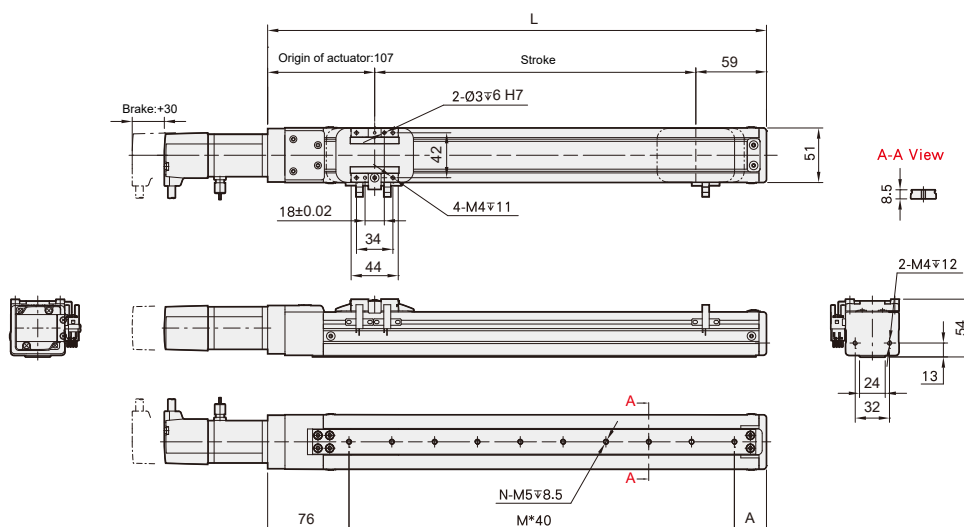
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

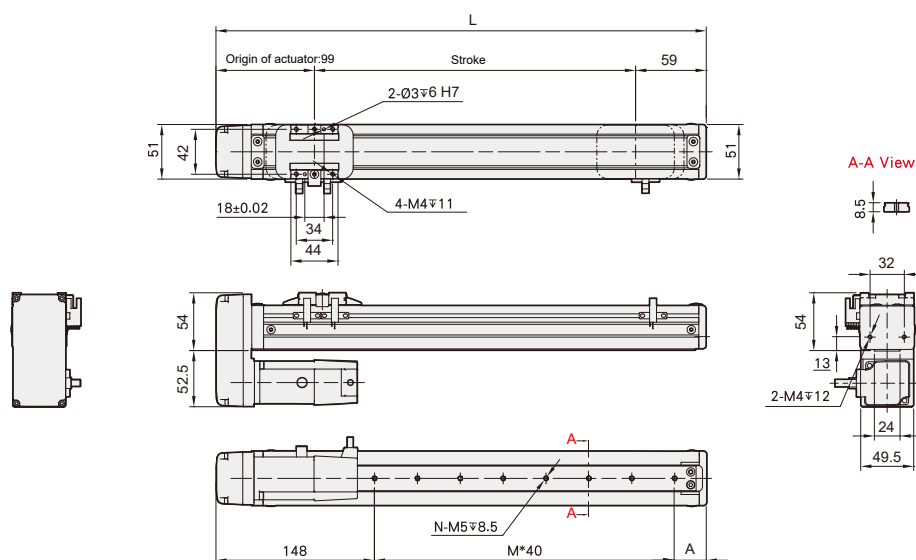
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

BM Motor Bottom Side

Unit : mm

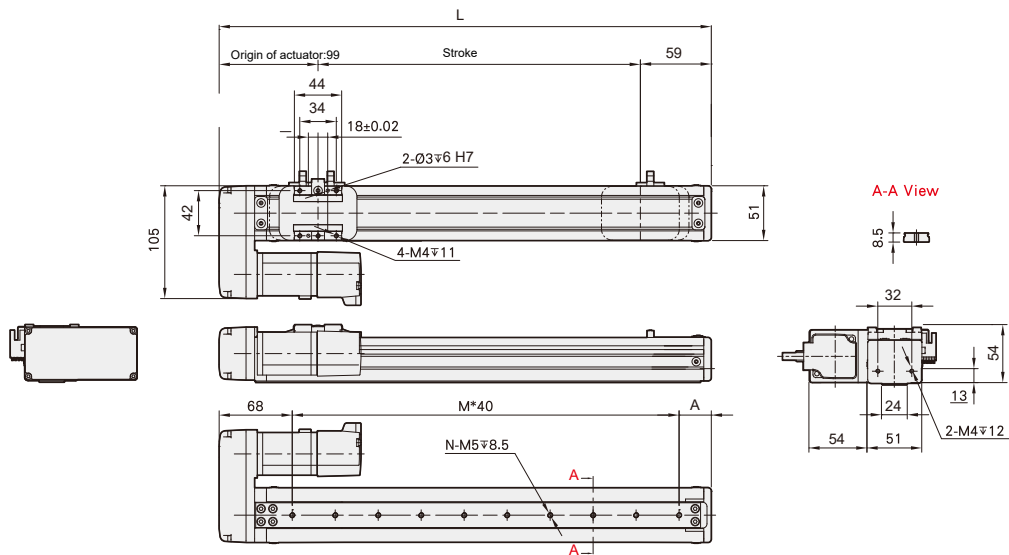


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	0	2	3	4	5	7	8	9	10	12	13	14	15	17	18	19
N	1	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

Motor Left Side / Motor Right Side

BL Motor Left Side

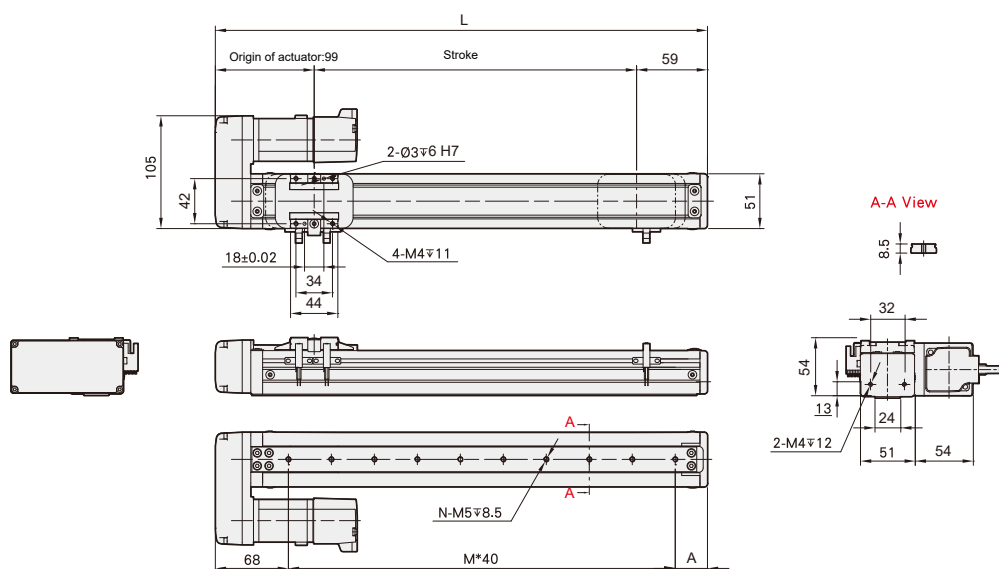
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **166mm/s**

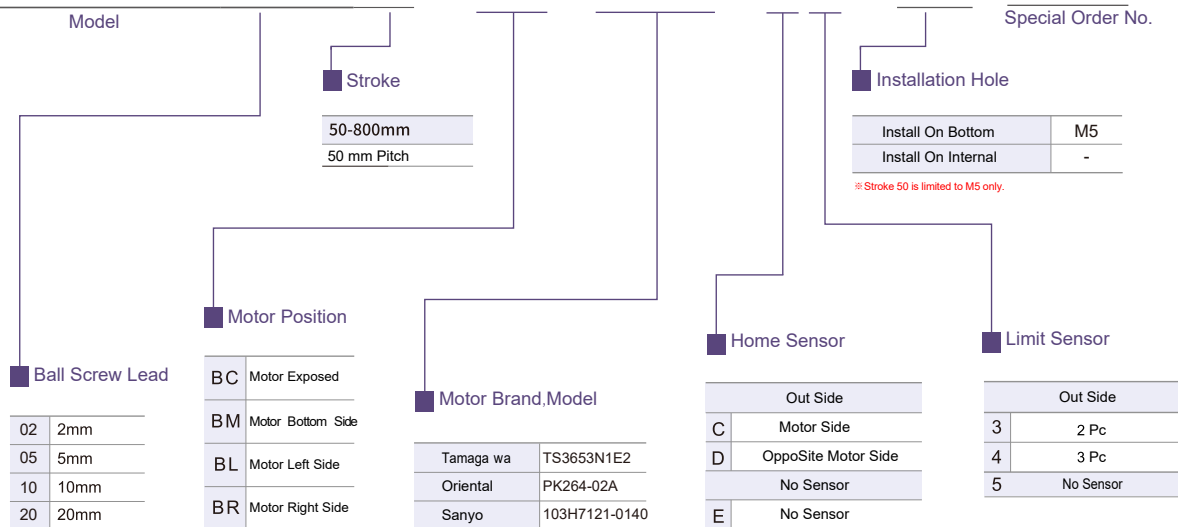
Maximum Static Torque **0.39N.m.**

Ball Screw **Ø 12mm**

Linear Guide **42X9,5 1piece**

Ordering Method

WETH6M - L5 - 50 - BC - 57M - C 4 - M5- 0001



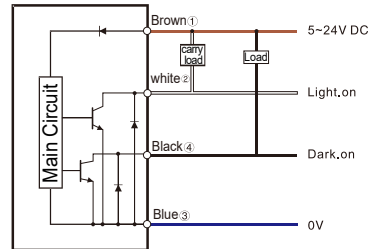
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		41	83	166
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2
	Rated Thrust (N)		490	245	85
Parts	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
	Maximum Static Torque (N.m.)		0.39		
	Ball Screw ϕ (mm)		C7 $\phi 12$		
	High Rigidity Linear Guide (mm)		W42XH9.5		
	Coupling (mm)		8X6.35		
Home Sensor		Outside	672 (NPN / PNP)		

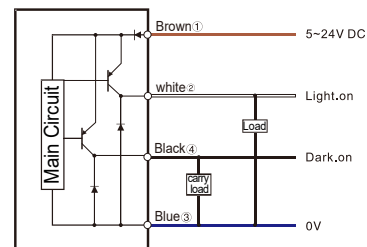
*Acceleration and deceleration value is set 0.2 second.

Sensor Layout

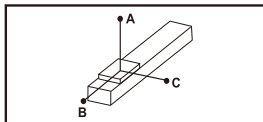
DC four-wire NPN output



DC four-wire PNP output

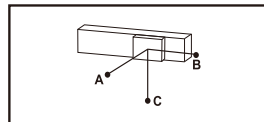


Allowable Overhang



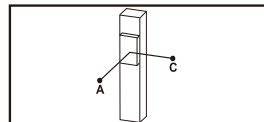
(Unit : mm)

Horizontal installation	A	B	C
2 Lead			
10kg	600	55	147
30kg	160	13	36
5 Lead			
10kg	500	43	107
30kg	125	10	24
10 Lead			
3kg	790	145	310
8kg	280	49	107
15kg	135	23	50
20 Lead			
3kg	325	119	198
6kg	156	55	93
10kg	87	30	52



(Unit : mm)

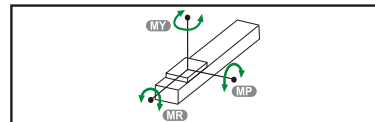
Wall Installation	A	B	C
2 Lead			
15kg	90	34	580
30kg	35	13	160
5 Lead			
15kg	63	25	304
30kg	22	9	119
10 Lead			
3kg	304	140	776
8kg	104	48	273
15kg	48	22	131
20 Lead			
3kg	193	116	321
6kg	91	54	153
10kg	50	30	86



(Unit : mm)

Vertical Installation	A	C
2 Lead		
5kg	125	125
15kg	42	42
5 Lead		
2kg	250	250
4kg	125	125
10kg	50	50
10 Lead		
1kg	446	446
2kg	223	223
5kg	89	89
1kg	353	353
2kg	177	177
20 Lead		
-	-	-

Static Loading Moment



(Unit : mm)

MY	70
MP	80
MR	75

*The torque value in the chart indicate the center of gravity.
 *Operation life is 5,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

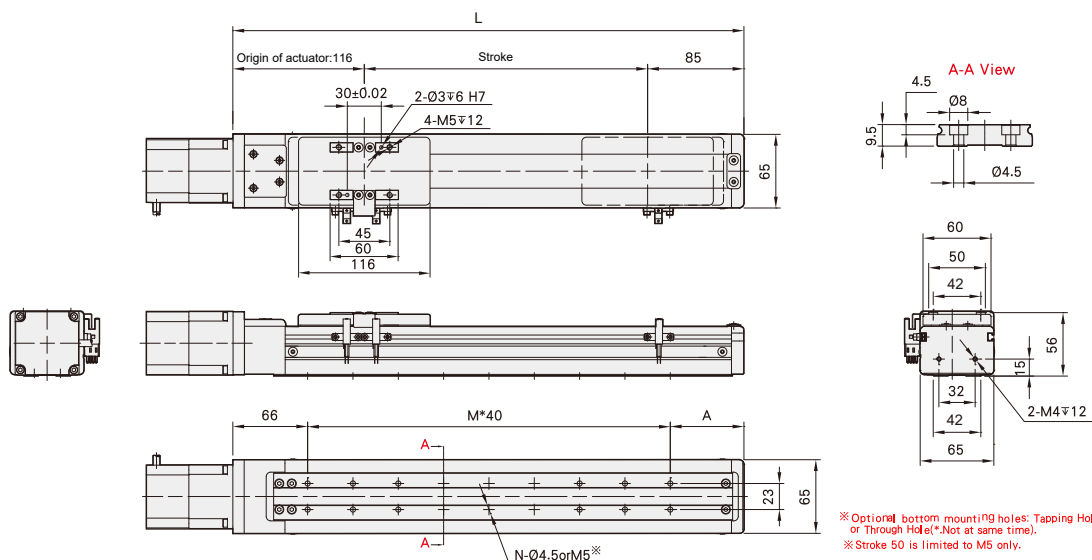
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.39	DC24V	two-phase-TS3653N1E2	CD-2D34M Resolution 200/400/800/1600
Oriental	0.39	DC24V	two-phase-PK264-02A	CDM2120P Resolution 200/400/800/1600/3200
Sanyo	0.39	DC24V	two-phase-103H7121-0140	US1D200P10 Resolution 200/400/800/1600/3200

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

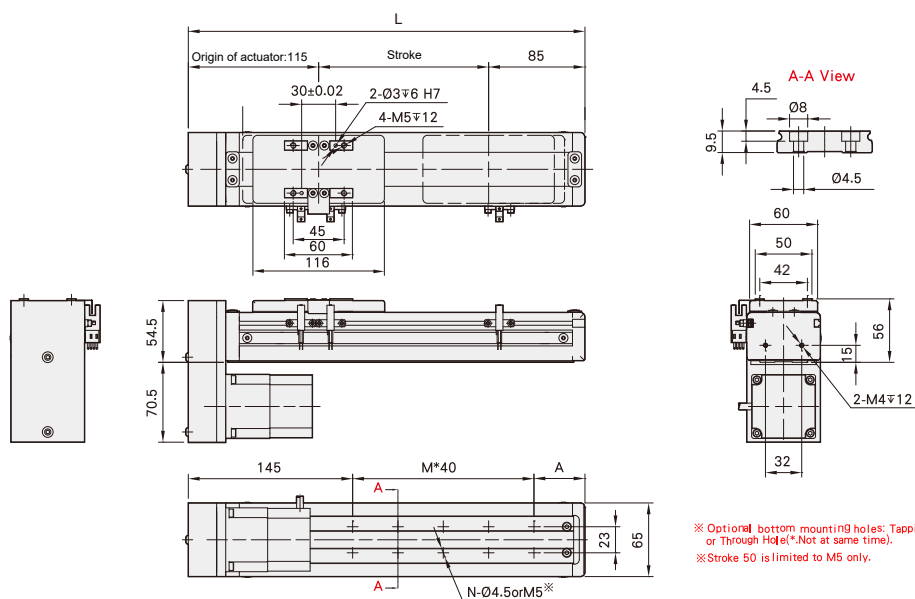


※ Optional bottom mounting holes: Tapping Hole or Through Hole(*. Not at same time).
※ Stroke 50 is limited to M5 only.

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	251	301	351	401	451	501	551	601	651	701	751	801	851	901	951	1001
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6		8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.59	2.82	3.05	3.27	3.5	3.72	3.94	4.17	4.39	4.62	4.84	5.06	5.29	5.51	5.74	5.94

BM Motor Bottom Side

Unit : mm

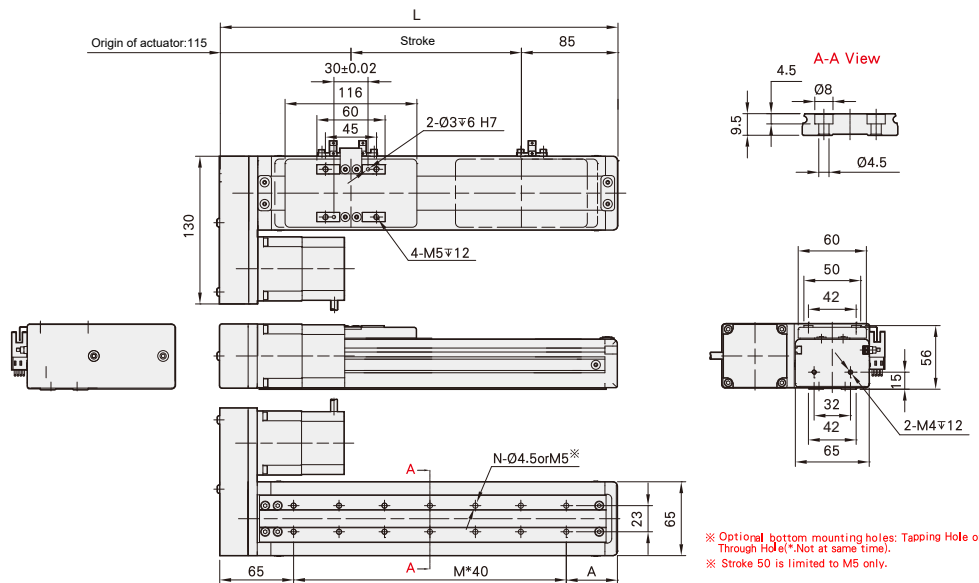


※ Optional bottom mounting holes: Tapping Hole or Through Hole(*. Not at same time).
※ Stroke 50 is limited to M5 only.

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	2	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	6	8	10	12	14	18	20	22	24	28	30	32	34	38	40	42
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

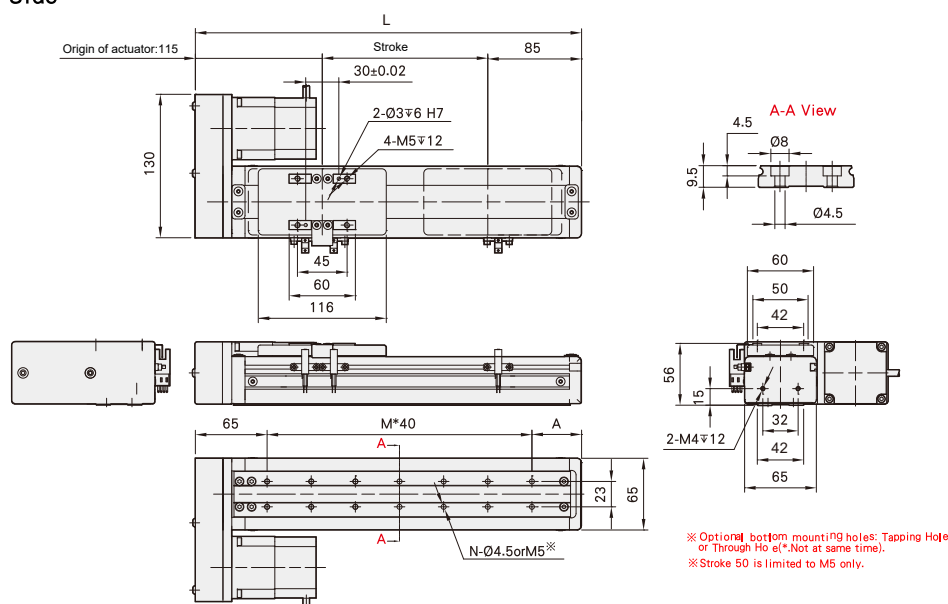
Module

單位 Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6		8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6		8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99



Module

Module

Module

Module



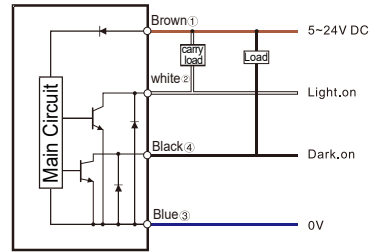
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2
	Rated Thrust (N)		490	245	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw ϕ (mm)		C7 ϕ 12		
	High Rigidity Linear Guide(mm)		W42XH9.5		
	Coupling (mm)		8X8		
	Home Sensor	Outside	672 (NPN/ PNP)		

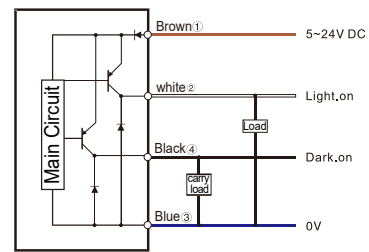
*When the stroke is over 600mm, the run-out of the ballscrew will occur. *Acceleration and deceleration value is set 0.2 second.
 *We recommend to low down the working speed under this circumstances.

Sensor Layout

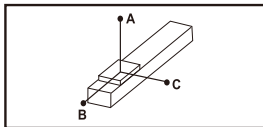
DC four-wire NPN output



DC four-wire PNP output

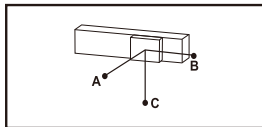


Allowable Overhang



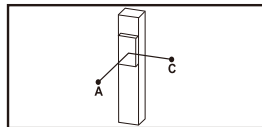
(Unit : mm)

Horizontal installation	A	B	C
2 Lead			
10kg	600	55	147
30kg	160	13	36
5 Lead			
10kg	500	43	107
30kg	125	10	24
10 Lead			
3kg	790	145	310
8kg	280	49	107
15kg	135	23	50
20 Lead			
3kg	325	119	198
6kg	156	55	93
10kg	87	30	52



(Unit : mm)

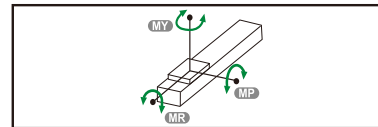
Wall Installation	A	B	C
2 Lead			
15kg	90	34	580
30kg	35	13	160
5 Lead			
15kg	63	25	304
30kg	22	9	119
10 Lead			
3kg	304	140	776
8kg	104	48	273
15kg	48	22	131
20 Lead			
3kg	193	116	321
6kg	91	54	153
10kg	50	30	86



(Unit : mm)

Vertical Installation	A	C
2 Lead		
5kg	125	125
15kg	42	42
5 Lead		
2kg	250	250
4kg	125	125
10kg	50	50
10 Lead		
1kg	446	446
2kg	223	223
5kg	89	89
1kg	353	353
20 Lead		
2kg	177	177
-	-	-

Static Loading Moment



(Unit : mm)

MY	70
MP	80
MR	75

*The torque value in the chart indicate the center of gravity.
 *Operation life is 5,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

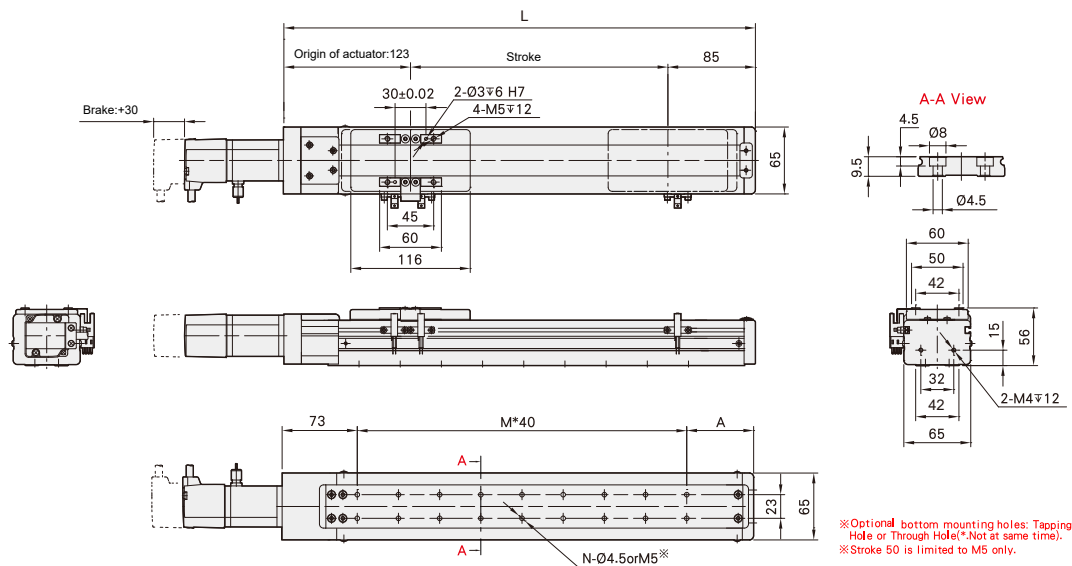
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

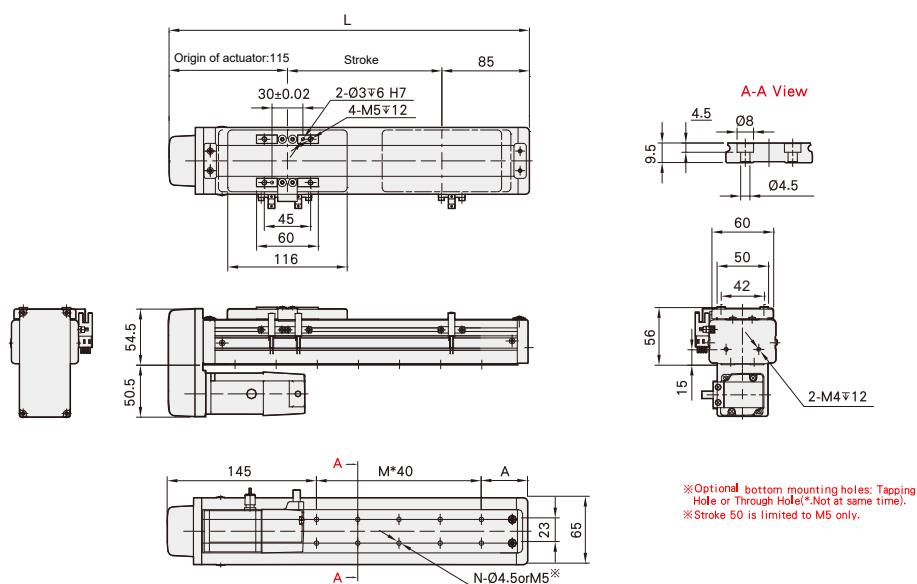
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6		8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.59	2.82	3.05	3.27	3.5	3.72	3.94	4.17	4.39	4.62	4.84	5.06	5.29	5.51	5.74	5.94

BM Motor Bottom Side

單位 Unit : mm

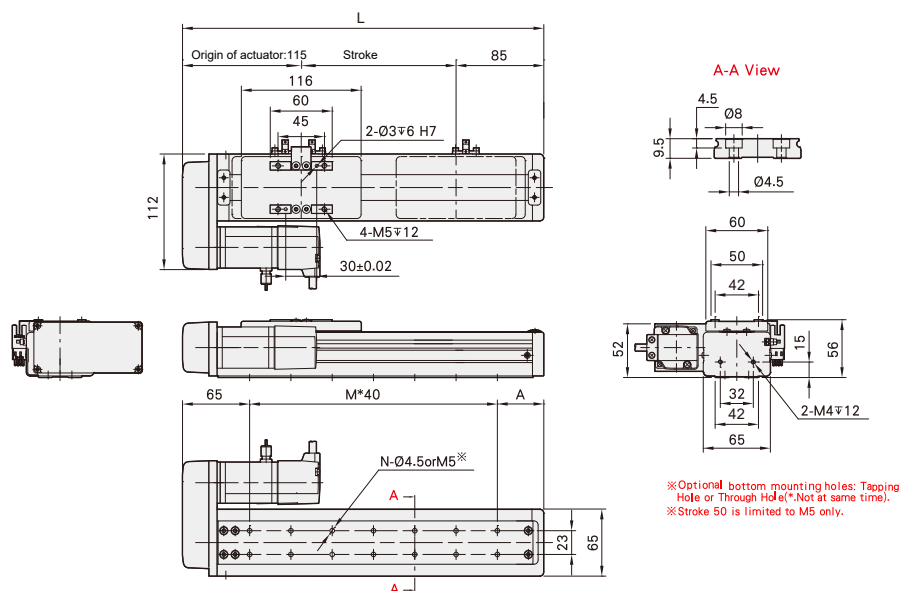


有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	2	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	6	8	10	12	14	18	20	22	24	28	30	32	34	38	40	42
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

Motor Left Side / Motor Right Side

BL Motor Left Side

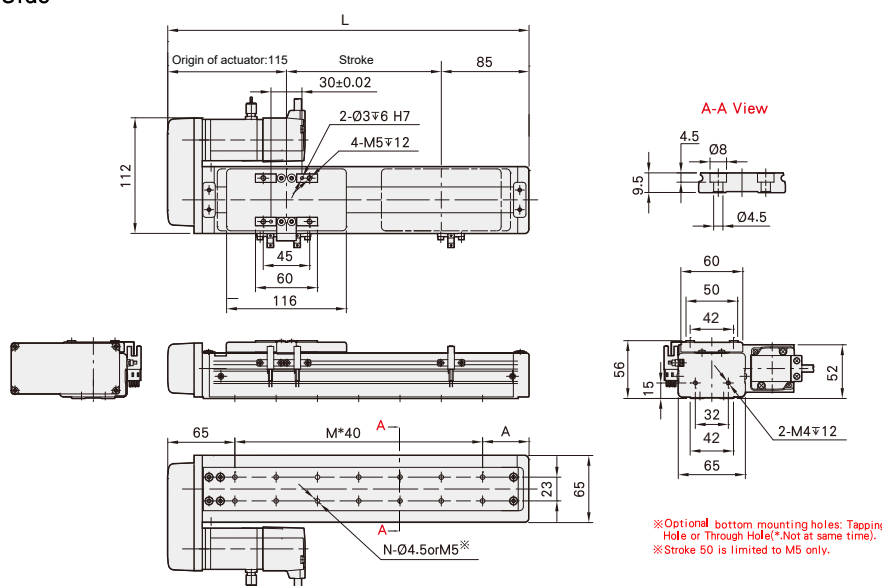
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	8	10	11	12	13	15	16	17	18	20	21	22	
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	8	10	11	12	13	15	16	17	18	20	21	22	
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **100W**

Ball Screw **Ø 16mm**

Linear Guide **20X18 1piece**

Ordering Method

WETH10 - L 5 - 50 - BC - M10B - C 4 - 0001

Model

Special Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	100W	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	-	

※ If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

※ B2 is unavailable while ETH10.

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

Specification

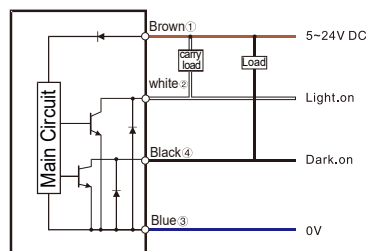
Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		341	170	85	53
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		100			
	Ball Screw $\varnothing$ (mm)		C7 $\varnothing$ 16			
	High Rigidity Linear Guide (mm)		W20XH18			
	Coupling (mm)		10X8			
	Home Sensor	Outside	672 (NPN / PNP)			
		Built-In	674 (NPN / PNP)			

*When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

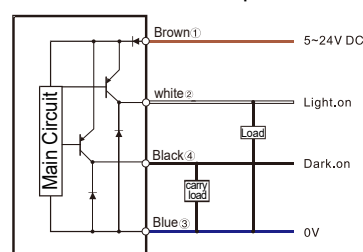
*Acceleration and deceleration value is set 0.2 second.

Sensor Layout

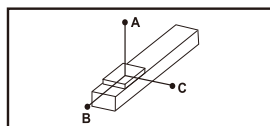
DC four-wire NPN output



DC four-wire PNP output

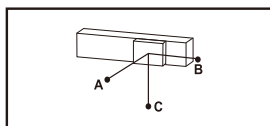


Allowable Overhang



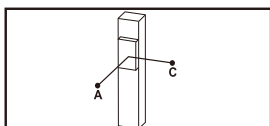
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	30kg	547	42	42
	40kg	391	29	29
	50kg	298	22	21
10 Lead	15kg	521	84	80
	25kg	298	47	44
	30kg	242	37	35
20 Lead	5kg	675	224	193
	10kg	330	107	93
	18kg	175	55	48
32 Lead	3kg	486	259	198
	5kg	288	152	116
	-	-	-	-



(Unit : mm)

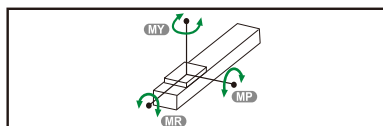
Wall Installation		A	B	C
5 Lead	25kg	52	53	670
	35kg	35	35	455
	50kg	21	22	298
10 Lead	10kg	124	131	770
	20kg	58	61	382
	30kg	35	37	242
20 Lead	6kg	160	185	562
	12kg	76	88	272
	18kg	48	55	175
32 Lead	2kg	300	393	733
	5kg	116	152	288
	-	-	-	-



(Unit : mm)

Vertical installation		A	C
5 Lead	5kg	310	310
	8kg	192	192
	12kg	129	129
10 Lead	4kg	344	344
	8kg	172	172
	-	-	-
20 Lead	2kg	546	546
	3kg	364	364
	-	-	-

Static Loading Moment



(Unit : mm)

MY	110
MP	110
MR	120

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

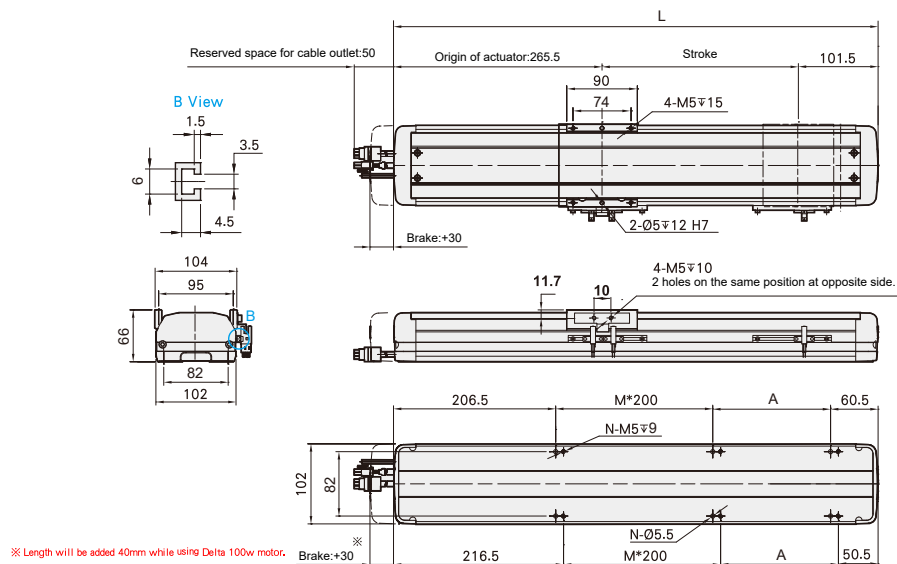
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

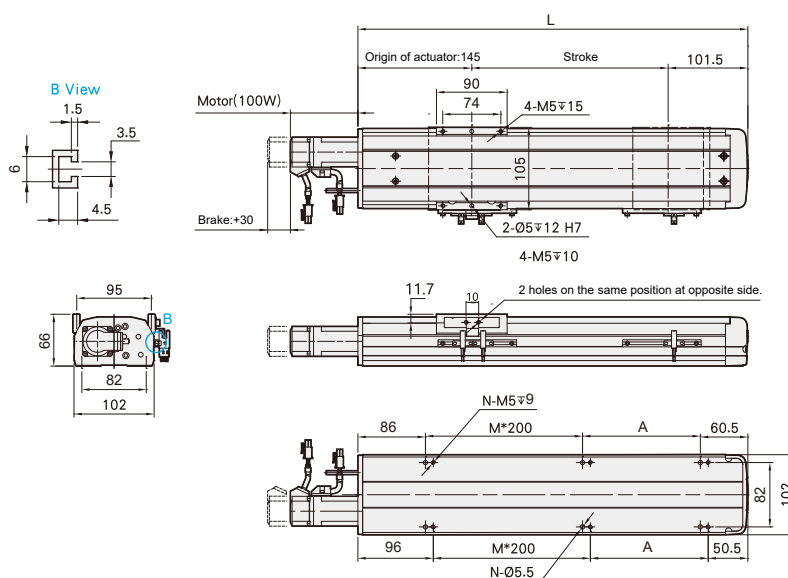
Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.6	4.98	5.36	5.75	6.13	6.52	6.9	7.29	7.67	8.06	8.44	8.83	9.21	9.6	9.98	10.37	10.75	11.14	11.52	11.91	12.29

BC Motor Exposed

Unit: mm

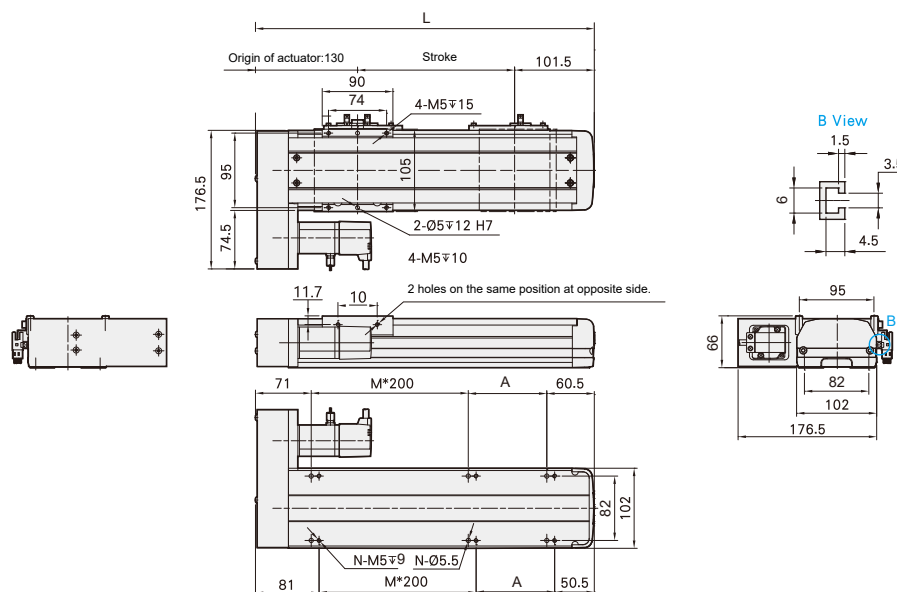


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	296.5	346.5	396.5	446.5	496.5	546.5	596.5	646.5	696.5	746.5	796.5	846.5	896.5	946.5	996.5	1046.5	1096.5	1146.5	1196.5	1246.5	1296.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.25	4.64	5.02	5.41	5.79	6.18	6.56	6.95	7.33	7.72	8.1	8.49	8.87	9.26	9.64	10.03	10.41	10.8	11.18	11.57	11.95

Motor Left Side / Motor Right Side

BL Motor Left Side

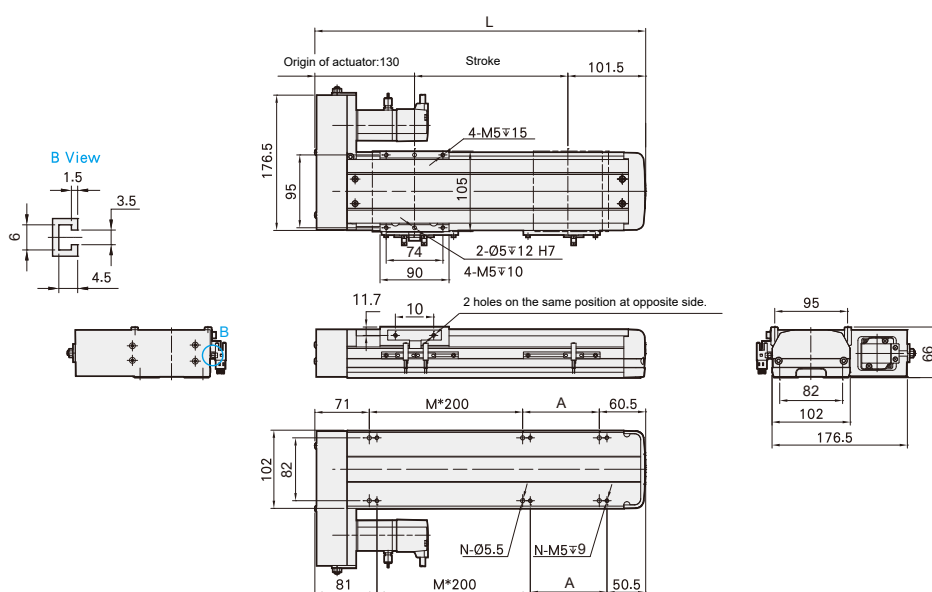
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.47	4.86	5.25	5.63	6.02	6.4	6.79	7.17	7.56	7.94	8.33	8.71	9.1	9.48	9.87	10.25	10.64	11.02	11.41	11.79	12.18

BR Motor Right Side

Unit : mm

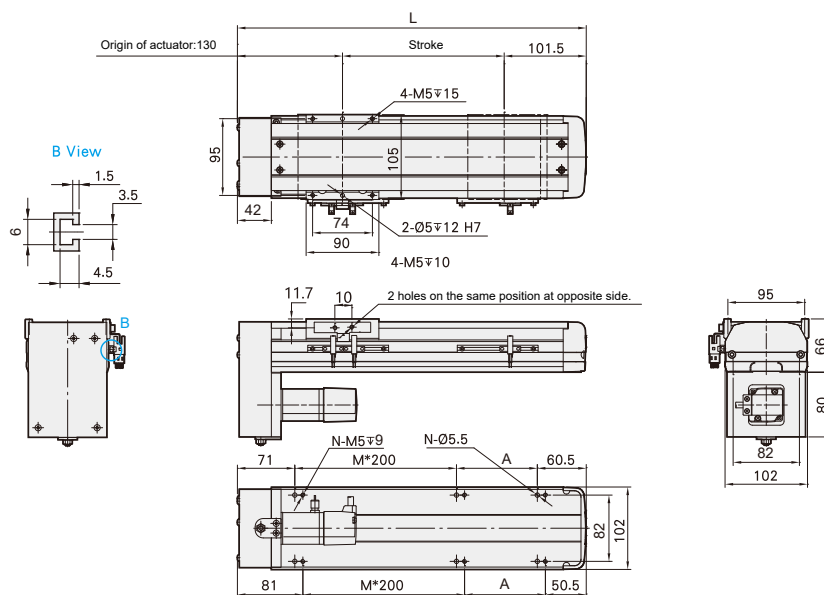


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.47	4.86	5.25	5.63	6.02	6.4	6.79	7.17	7.56	7.94	8.33	8.71	9.1	9.48	9.87	10.25	10.64	11.02	11.41	11.79	12.18

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.47	4.86	5.25	5.63	6.02	6.4	6.79	7.17	7.56	7.94	8.33	8.71	9.1	9.48	9.87	10.25	10.64	11.02	11.41	11.79	12.18

MEMO



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **100W**

Ball Screw **Ø 16mm**

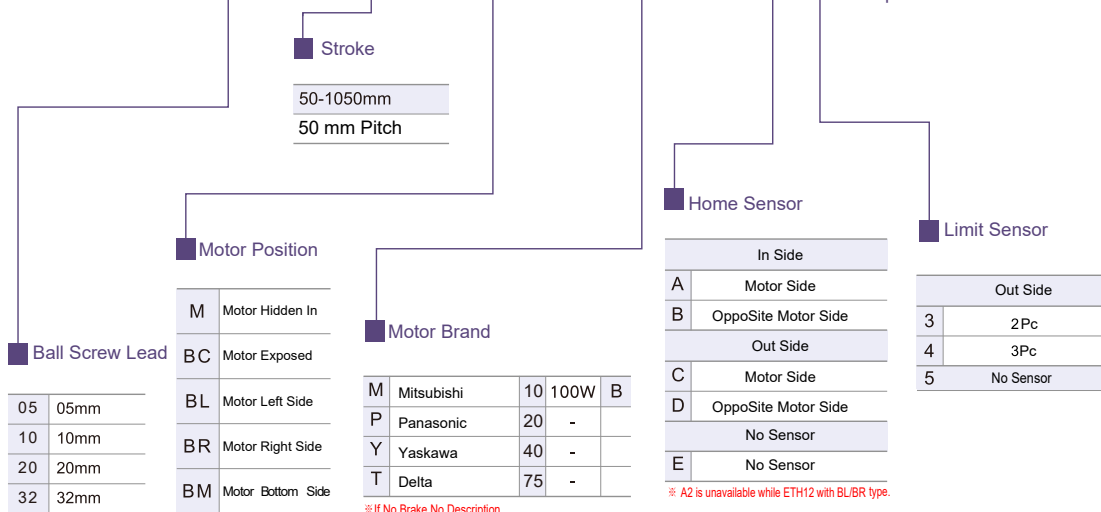
Linear Guide **12X7.5
2 pieces**

Ordering Method

WETH12- L 10 - 50 - BC - M10B - C 4 - 0001

Model

Special Order No.



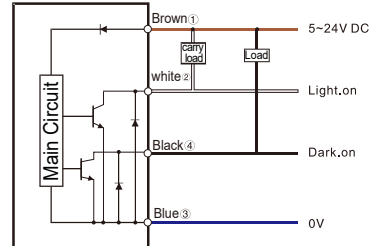
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		341	170	85	53
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		100			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W12XH7.5			
	Coupling (mm)		10X8			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

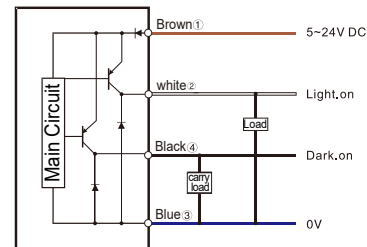
*When the stroke is over 750mm, the run-out of the ballscrew will occur. *Acceleration and deceleration value is set 0.2 second.
 *We recommend to low down the working speed under this circumstances.

Sensor Layout

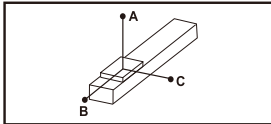
DC four-wire NPN output



DC four-wire PNP output

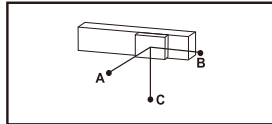


Allowable Overhang



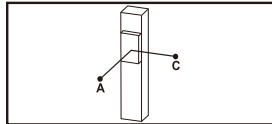
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	30kg	882	65
	40kg	606	43
	50kg	437	29
10 Lead	15kg	875	138
	25kg	485	73
	30kg	386	56
20 Lead	5kg	1160	384
	10kg	561	180
	18kg	288	88
32 Lead	3kg	822	444
	5kg	492	255
	-	-	-



(Unit : mm)

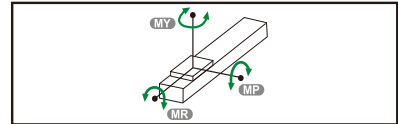
Wall Installation	A	B	C
5 Lead	25kg	100	84
	35kg	63	52
	50kg	35	29
10 Lead	10kg	250	221
	20kg	110	97
	30kg	64	56
20 Lead	6kg	317	316
	12kg	147	144
	18kg	89	88
32 Lead	2kg	591	682
	5kg	224	255
	-	-	-



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	544
	8kg	341
	12kg	227
10 Lead	4kg	606
	8kg	303
	-	-
20 Lead	2kg	961
	3kg	639
	-	-

Static Loading Moment



(Unit : mm)

MY	150
MP	150
MR	130

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

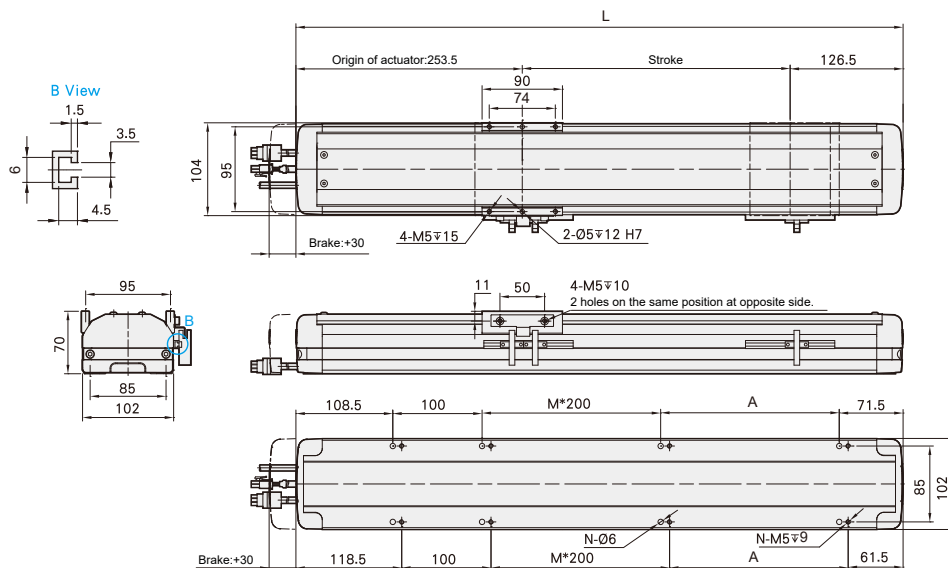
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

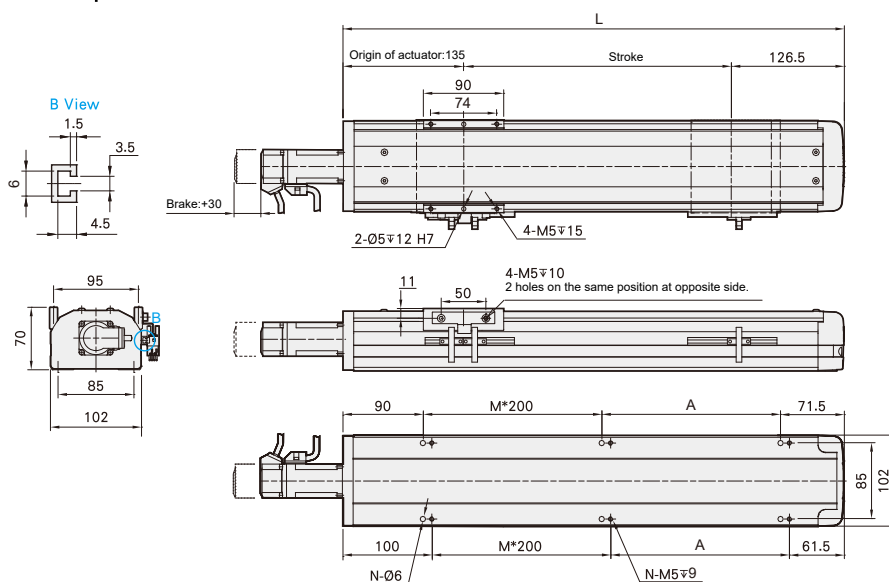
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
KG	5.15	5.54	5.93	6.32	6.71	7.1	7.49	7.88	8.27	8.66	9.05	9.44	9.83	10.22	10.61	11	11.39	11.78	12.17	12.56	12.95

BC Motor Exposed

Unit : mm

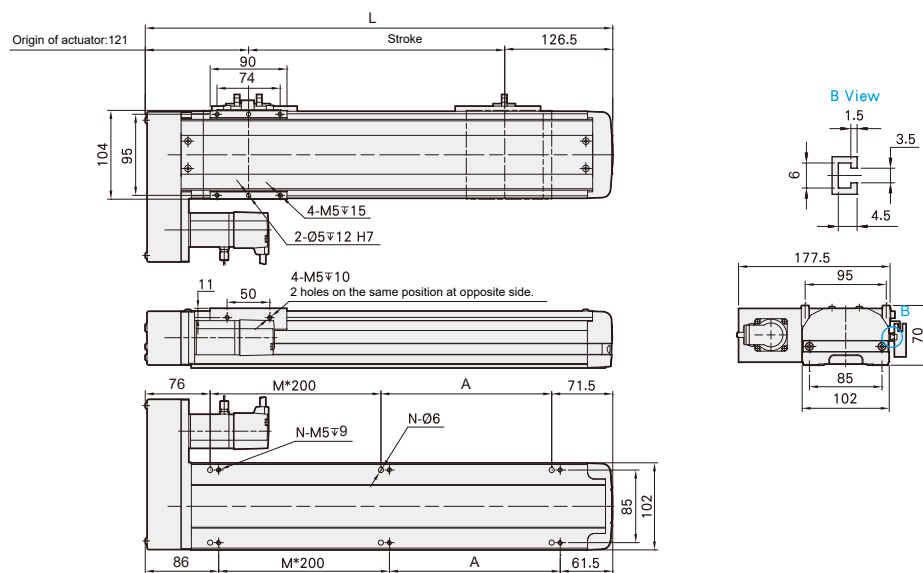


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	311.5	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5	1011.5	1061.5	1111.5	1161.5	1211.5	1261.5	1311.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.68	5.07	5.46	5.84	6.23	6.62	7.01	7.4	7.78	8.17	8.56	8.95	9.34	9.72	10.11	10.5	10.89	11.28	11.66	12.05	12.44

Motor Left Side / Motor Right Side

BL Motor Left Side

Unit : mm

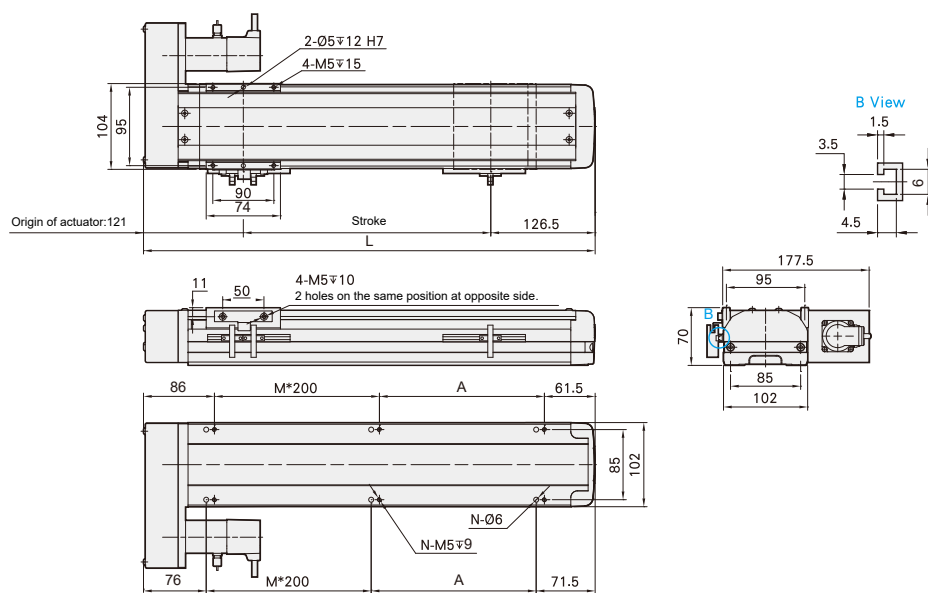


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.06	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.1	10.48	10.87	11.26	11.64	12.03	12.42	12.81

Module

BR Motor Right Side

Unit : mm

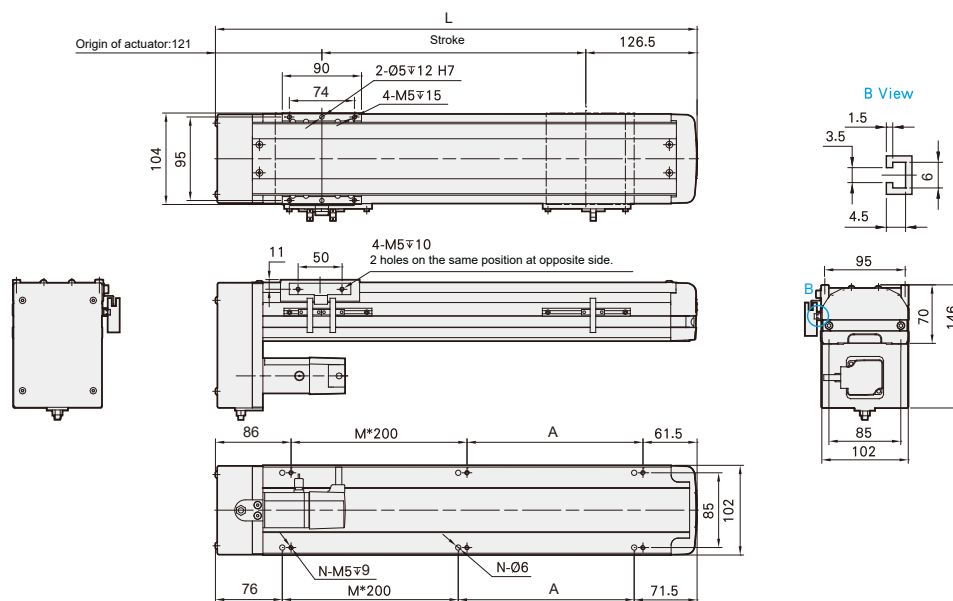


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.06	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.1	10.48	10.87	11.26	11.64	12.03	12.42	12.81

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.06	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.1	10.48	10.87	11.26	11.64	12.03	12.42	12.81



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke **1050mm**

Maximum
Speed **1600mm/s**

Motor Output **200W**

Ball Screw **Ø 16mm**

Linear Guide **12X7.5
2 pieces**

型號表示方式 Ordering Method

WETH12 - L 5 - 50 - BC - M20B - C 4 - 0001

Model

Special Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

Motor Brand

Home Sensor

Limit Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

※ If No Brake, No Description.

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

※ A2 is unavailable while ETH12 with BL/BR type.

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

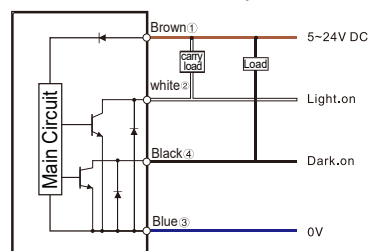
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W12XH7.5			
	Coupling (mm)		10X14/11 ^{Note1}			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

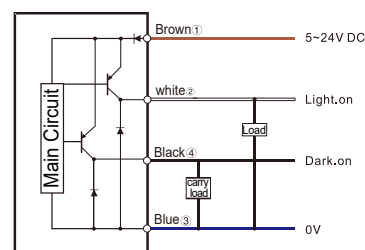
*When the stroke is over 750mm, the run-out of the ballscrew will occur. * Acceleration and deceleration value is set 0.2 second.
 * We recommend to low down the working speed under this circumstances.
 Note1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

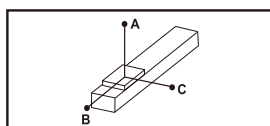
DC four-wire NPN output



DC four-wire PNP output

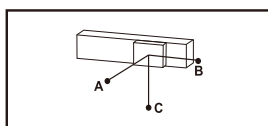


Allowable Overhang



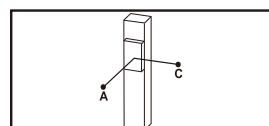
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	30kg	882	78
	40kg	606	51
	50kg	437	35
10 Lead	15kg	875	157
	25kg	485	83
	30kg	386	64
20 Lead	5kg	1160	386
	10kg	561	181
	18kg	288	89
32 Lead	3kg	822	385
	5kg	492	224



(Unit : mm)

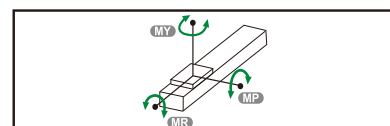
Wall Installation	A	B	C
5 Lead	25kg	100	1102
	35kg	63	725
	50kg	35	433
10 Lead	10kg	250	1311
	20kg	110	633
	30kg	64	385
20 Lead	6kg	317	955
	12kg	147	455
	18kg	89	288
32 Lead	2kg	591	1256
	5kg	224	488



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	544
	8kg	341
	12kg	227
10 Lead	4kg	606
	8kg	303
	-	-
20 Lead	2kg	961
	3kg	639
	-	-

Static Loading Moment



(Unit : N·m)

MY	150
MP	150
MR	130

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

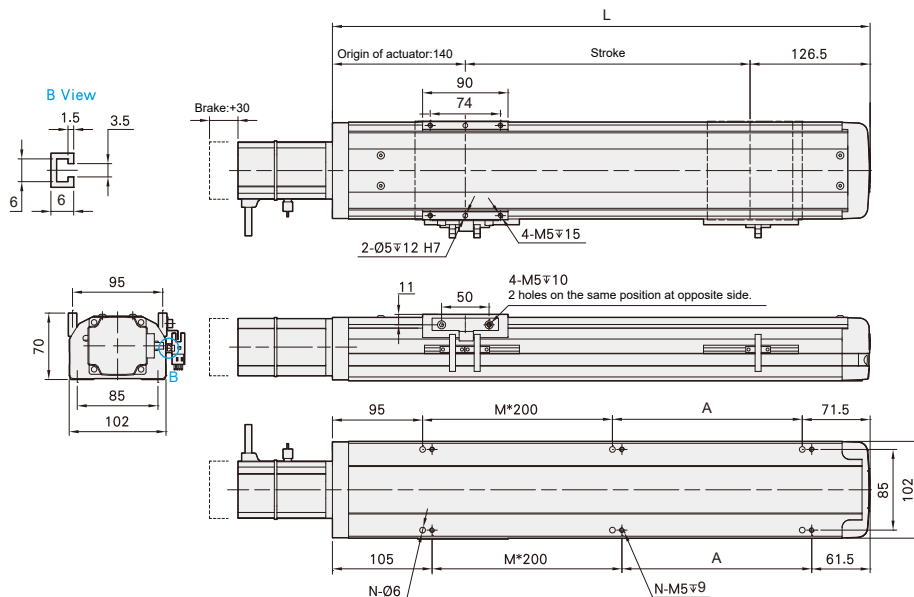
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022P1S	MADDT1207
		With Brake (Vertical Type)	200	220	MHMD022P1T	MADDT1207
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

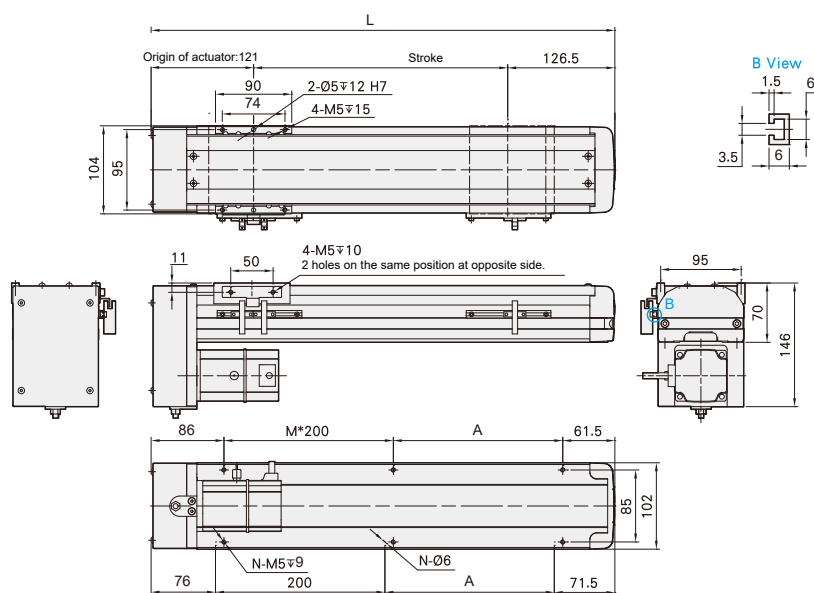
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	316.5	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5	816.5	866.5	916.5	966.5	1016.5	1066.5	1116.5	1166.5	1216.5	1266.5	1316.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.28	5.67	6.06	6.45	6.84	7.23	7.62	8.01	8.4	8.79	9.18	9.57	9.96	10.35	10.74	11.13	11.52	11.91	12.3	12.69	13.08

BM Motor Bottom Side

Unit : mm

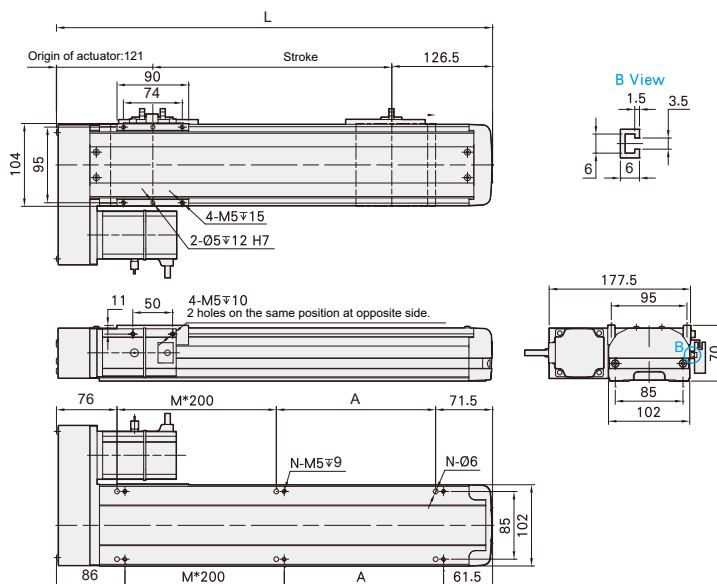


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

Motor Left Side / Motor Right Side

Unit: mm

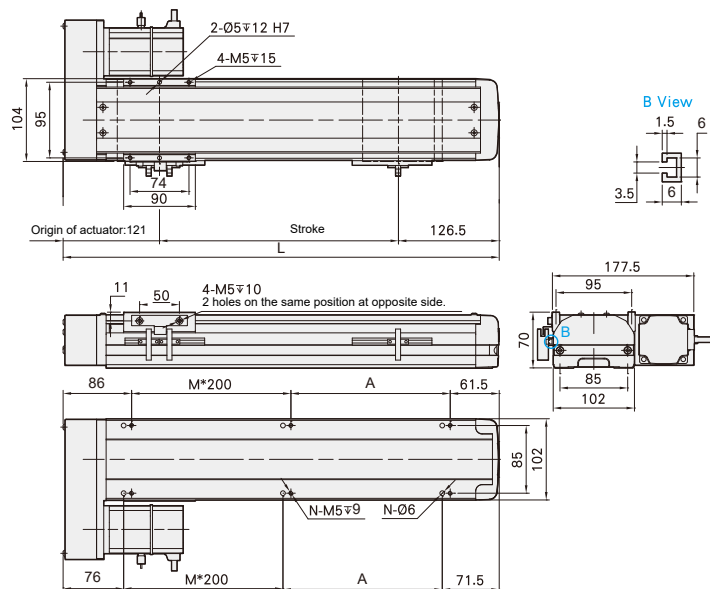
BL Motor Left Side



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

BR Motor Right Side

Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	5.66	6.05	6.44	6.83	7.22	7.61	8	8.39	8.78	9.17	9.56	9.95	10.34	10.73	11.12	11.51	11.9	12.29	12.68	13.07	13.46

MEMO

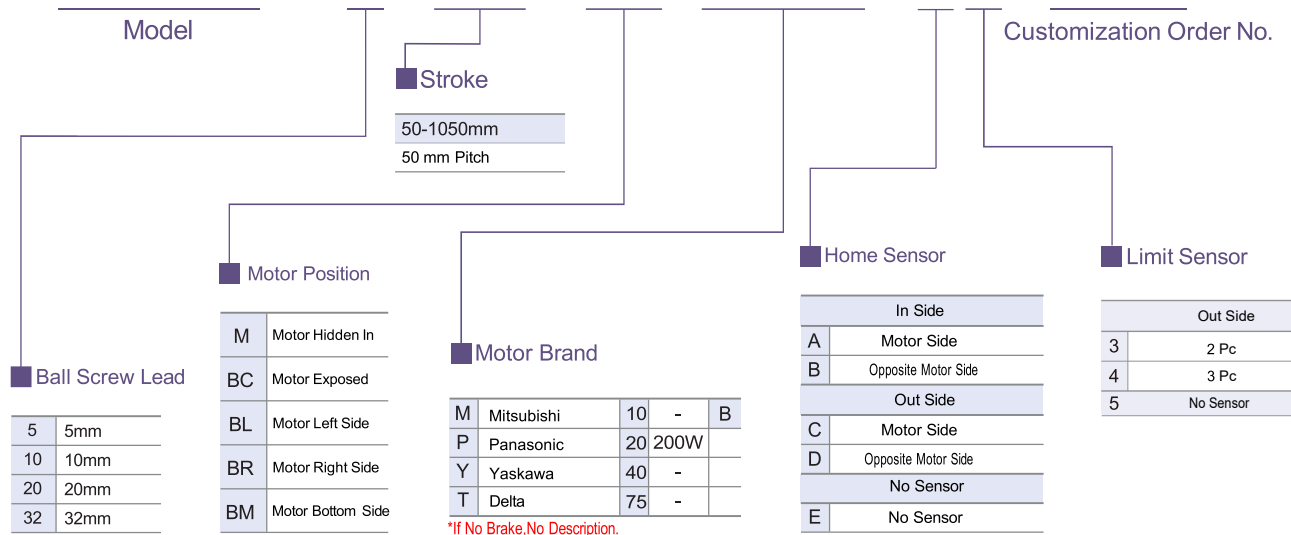


The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke	1050mm	Maximum Speed	1600mm/s	Motor output	200W	Ball Screw	φ16mm	Linear Guide	15X12.5 -2 pieces
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Ordering Method

WETH13-L 5 - 50 - BC - M20B - C 4 - 0001



Specification

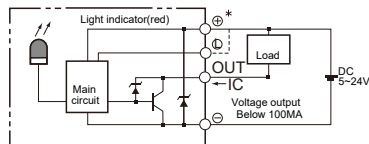
Spec	Repeatability (mm)		± 0.02 (Turn) ± 0.04			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	70	47	24	13
		Vertical (kg)	17	12	6	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14/11 Note 1			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

*When the stroke is over 750mm, the run-out of the ballscrew will occur. * Acceleration and deceleration value is set 0.2 second.

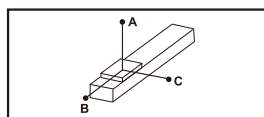
*We recommend to low down the working speed under this circumstances.

Note1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

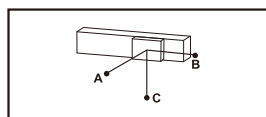


Allowable Overhang



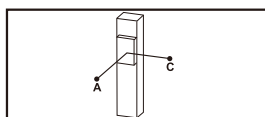
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	40kg	795	63
	55kg	558	43
	70kg	422	32
10 Lead	25kg	588	95
	35kg	410	65
	47kg	295	46
20 Lead	6kg	1068	355
	15kg	416	136
	24kg	252	81
32 Lead	7kg	385	205
	13kg	204	106



(Unit : mm)

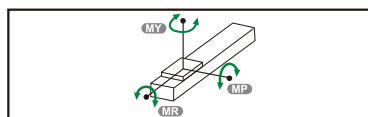
Wall Installation	A	B	C
5 Lead	30kg	310	88
	50kg	172	49
	70kg	115	32
10 Lead	20kg	351	122
	30kg	225	78
	47kg	135	46
20 Lead	5kg	852	428
	12kg	345	173
	24kg	166	81
32 Lead	6kg	350	240
	13kg	155	106



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	580
	11kg	264
	17kg	170
10 Lead	4kg	644
	8kg	322
	12kg	215
20 Lead	3kg	667
	6kg	335

Static Loading Moment



(Unit : N.m)

MY	174
MP	175
MR	153

*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.

*Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

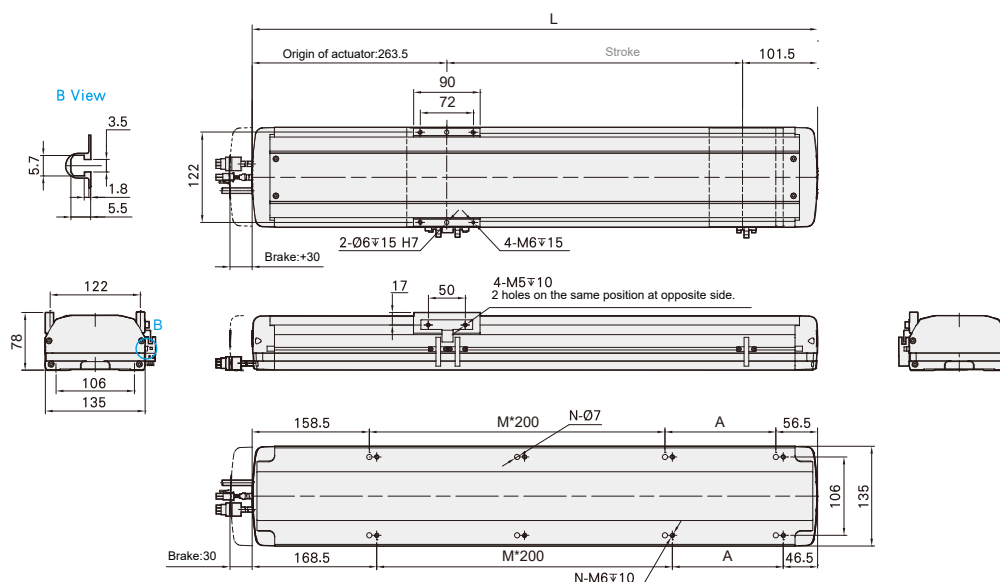
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

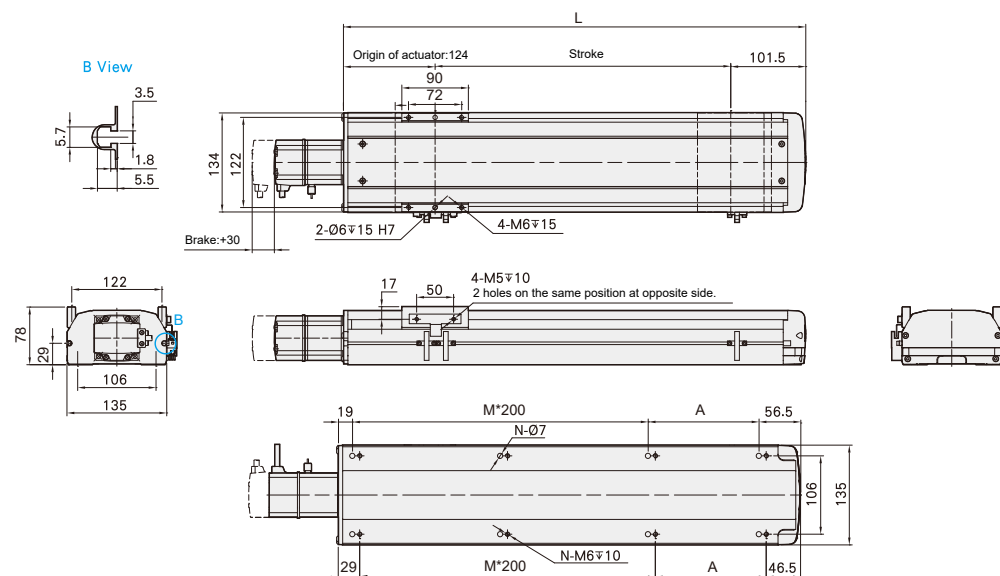
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.3	8.86	9.42	9.98	10.54	11.1	11.66	12.22	12.78	13.34	13.9	14.46	15.02	15.58	16.14	16.7	17.26	17.82	18.38	18.94	19.5

BC Motor Exposed

Unit : mm

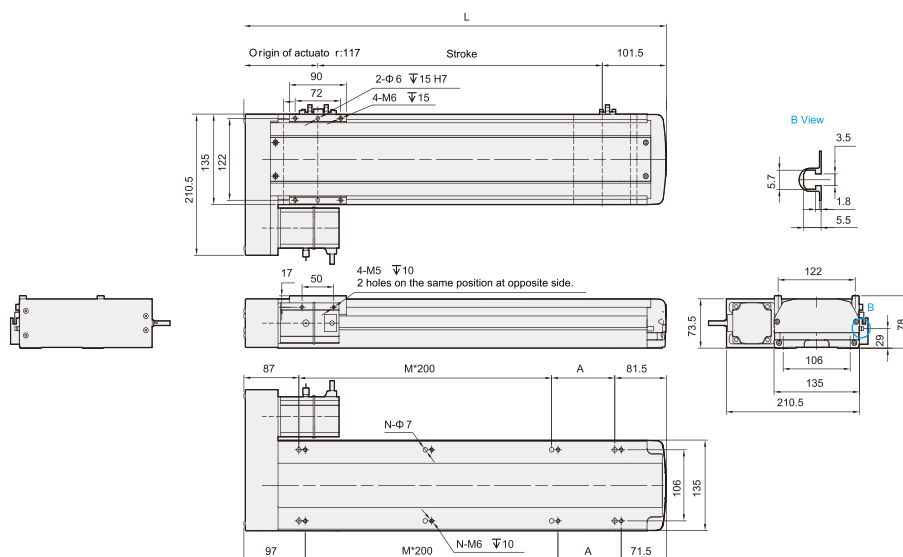


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	275.5	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	7.4	7.96	8.52	9.08	9.64	10.2	10.76	11.32	11.88	12.44	13	13.56	14.12	14.68	15.24	15.8	16.36	16.92	17.48	18.04	18.6

Motor Left Side / Motor Right Side

BL Motor Left Side

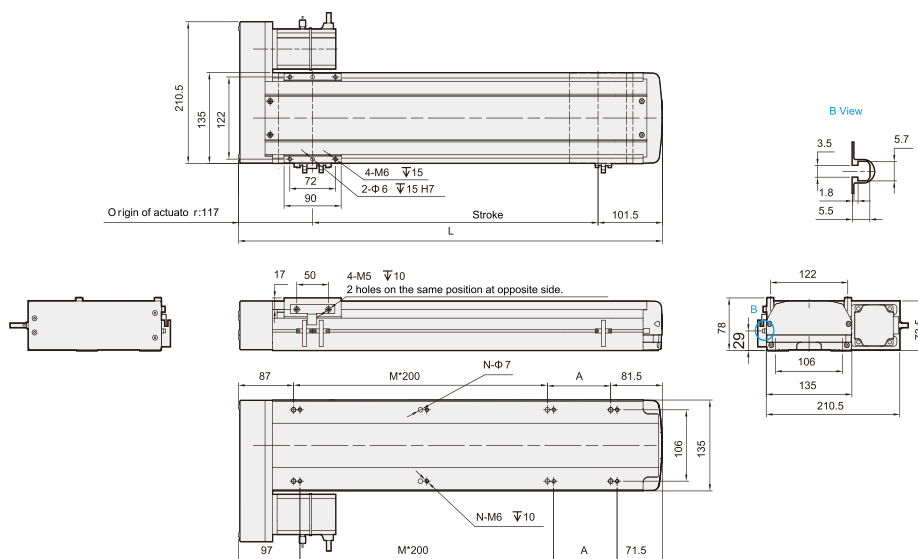
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

BR Motor Right Side

Unit : mm

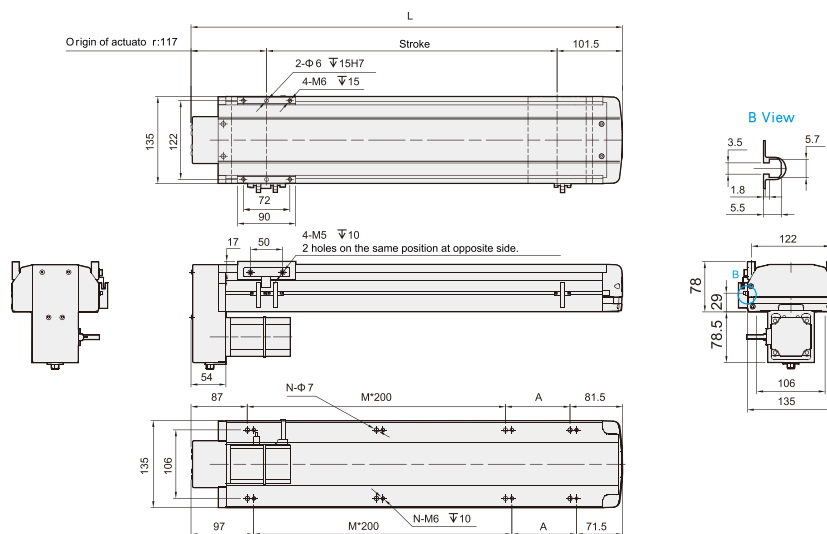


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1050mm

Maximum
Speed 1600mm/s

Motor output 200W

Ball Screw $\phi 16\text{mm}$

Linear Guide **15X12.5**
-2 pieces

Ordering Method

WETH13- L 5 50 - BC - M40B - C 4 - 0001

Model

Stroke

50-1050mm
50 mm Pitch

Customization Order No.

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn) ± 0.04			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)*1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	70	47	24	13
		Vertical (kg)	14	12	6	-
	Rated Thrust (N)		1388	694	433	347
	Stroke Pitch (mm)*2		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw Ø (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14/11 Note 1			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

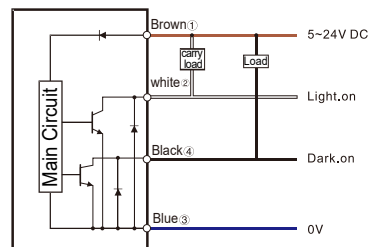
*1 Acceleration and deceleration value is set 0.2 second.

*2 When the 2-stroke exceeds 750, screw deflection will occur. Please reduce the speed at this time.

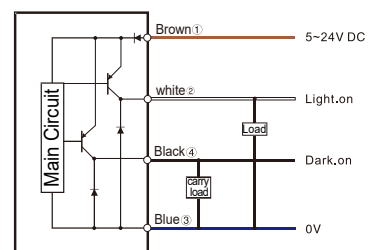
Note 1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

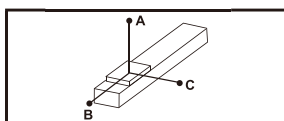
DC four-wire NPN output



DC four-wire PNP output

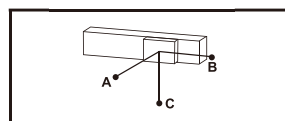


Allowable Overhang



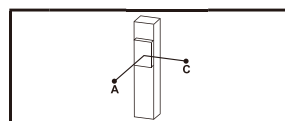
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	60kg	2512	242	232
	80kg	1811	172	164
	95kg	1537	138	133
10 Lead	30kg	2727	470	430
	50kg	1577	266	242
	75kg	1004	164	150
20 Lead	10kg	2304	1222	1028
	22kg	1443	540	451
	35kg	1005	324	271
32 Lead	10kg	1555	840	623
	15kg	1033	545	405
Lead	-	-	-	-



(Unit : mm)

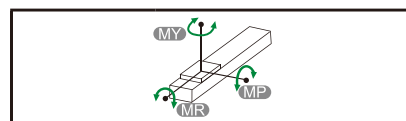
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	95kg	133	138	1537
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	75kg	150	164	1004
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	35kg	271	324	1005
32 Lead	8kg	787	1060	1980
	15kg	405	545	1033
Lead	-	-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	15kg	1118	1118
	22kg	770	770
	27kg	626	626
10 Lead	10kg	1500	1500
	14kg	1072	1072
	18kg	833	833
20 Lead	4kg	2980	2980
	7kg	1700	1700
Lead	-	-	-

Static Loading Moment



(Unit : N.m)

MY	551
MP	552
MR	485

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

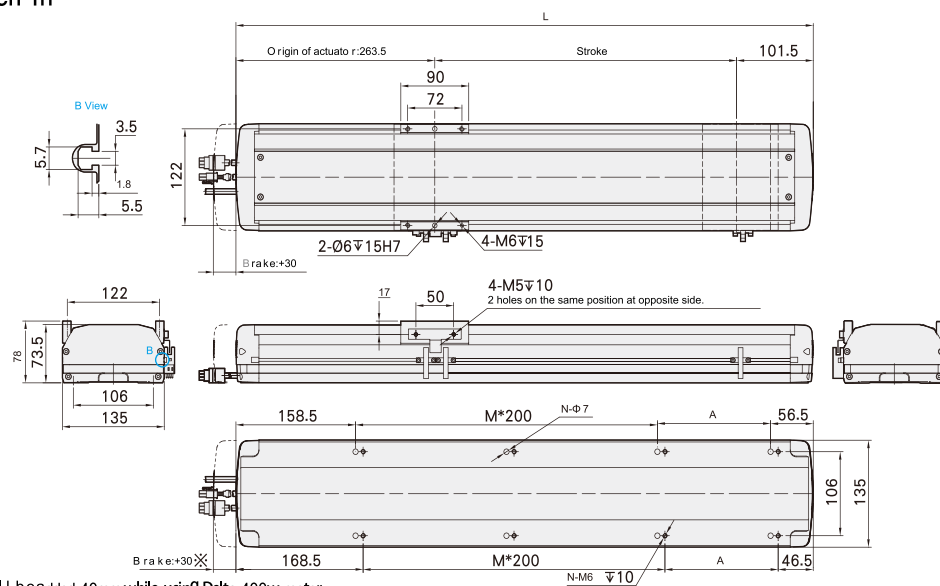
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

Unit : mm

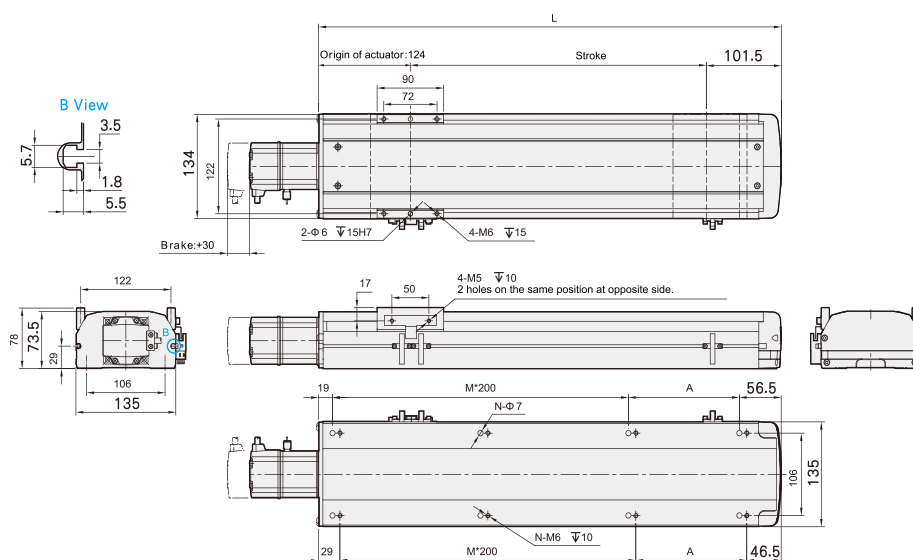


※Length will be added 40mm while using Delta 400w motor.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.3	8.86	9.42	9.98	10.54	11.1	11.66	12.22	12.78	13.34	13.9	14.46	15.02	15.58	16.14	16.7	17.26	17.82	18.38	18.94	19.5

BC Motor Exposed

Unit : mm

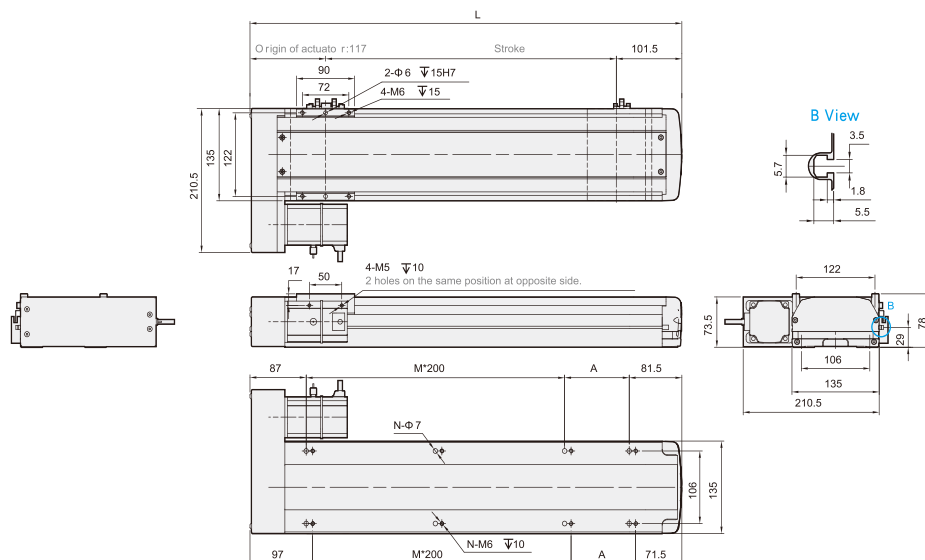


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	275.5	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	7.4	7.96	8.52	9.08	9.64	10.2	10.76	11.32	11.88	12.44	13	13.56	14.12	14.68	15.24	15.8	16.36	16.92	17.48	18.04	18.6

Motor Left Side / Motor Right Side

BL Motor Left Side

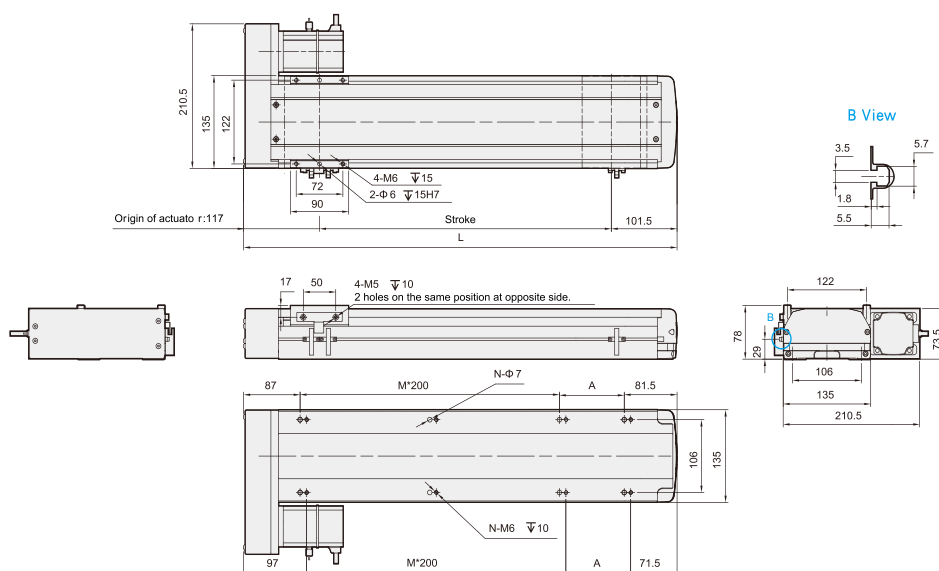
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

BR Motor Right Side

Unit : mm

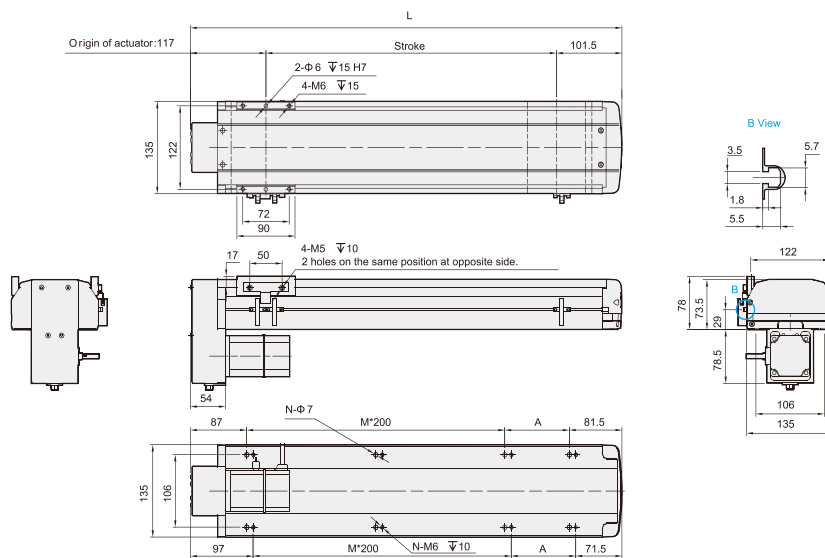


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14

Motor Bottom Side

BM Motor Bottom Side

單位 Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.94	8.5	9.06	9.62	10.18	10.74	11.3	11.86	12.42	12.98	13.54	14.1	14.66	15.22	15.78	16.34	16.9	17.46	18.02	18.58	19.14



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 1050mm

Maximum Speed 1600mm/s

Motor output 200W

Ball Screw $\Phi 16\text{mm}$

Linear Guide **15X12.5**
-2 pieces

Ordering Method

WETH14 - L 5 - 50 - M - M20B - C 4 - 0001

Model

Customization Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)*1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	95	75	35	15
		Vertical (kg)	27	18	7	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)*2		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14/11 ^{Note 1}			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

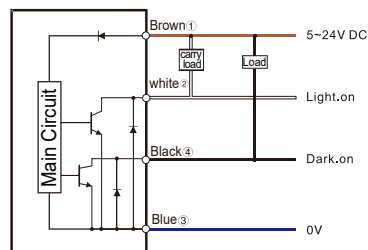
*1 Acceleration and deceleration value is set 0.2 second.

*2 When the 2-stroke exceeds 750, screw deflection will occur. Please reduce the speed at this time.

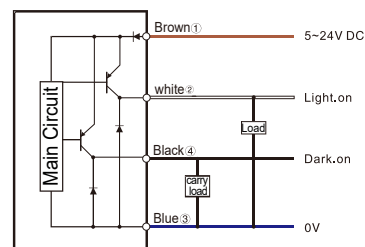
Note1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

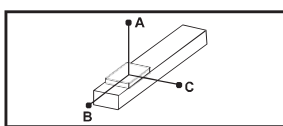
DC four-wire NPN output



DC four-wire PNP output

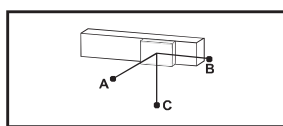


Allowable Overhang



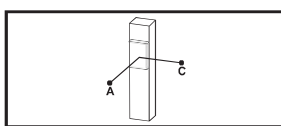
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	60kg	2512	242	232
	80kg	181	172	164
	95kg	1537	138	133
10 Lead	30kg	2727	470	430
	50kg	1577	266	242
	75kg	1004	164	150
20 Lead	10kg	2304	1222	1028
	22kg	1443	540	45
	35kg	1005	324	27
32 Lead	10kg	1555	840	623
	15kg	1033	545	405
	-	-	-	-



(Unit : mm)

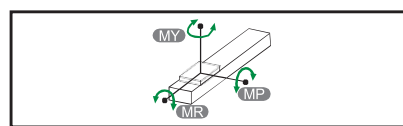
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	95kg	133	138	1537
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	75kg	150	164	1004
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	35kg	27	324	1005
32 Lead	8kg	787	1060	1980
	15kg	405	545	1033
	-	-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	15kg	1118	1118
	22kg	770	770
	27kg	626	626
10 Lead	10kg	1500	1500
	14kg	1072	1072
	18kg	833	833
20 Lead	4kg	2980	2980
	7kg	1700	1700
	-	-	-

Static Loading Moment



(Unit : N.m)

MY	55
MP	552
MR	485

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.

* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount
* inverse usage.

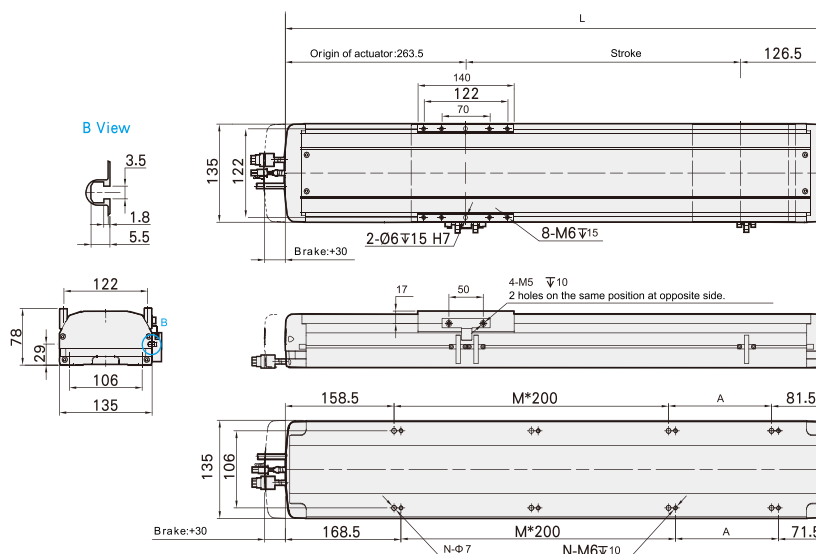
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

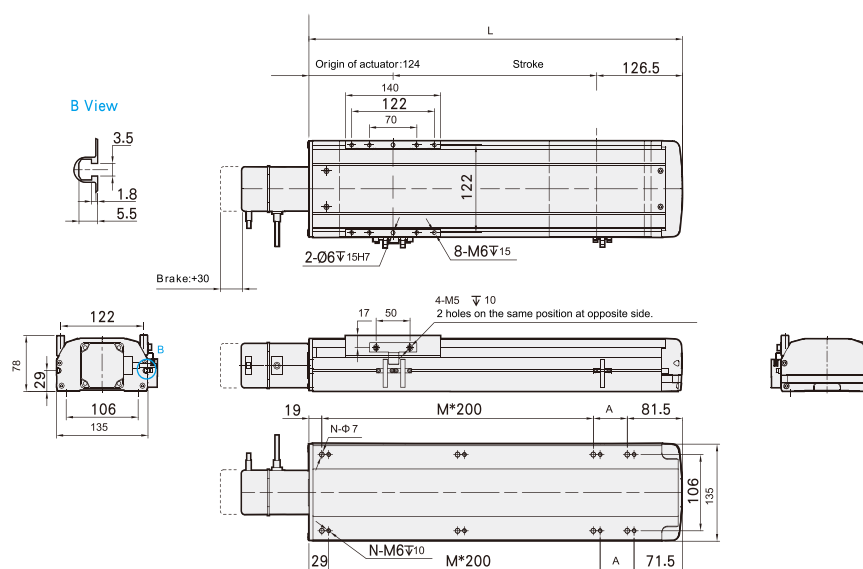
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	9.5	10.06	10.62	11.18	11.74	12.3	12.86	13.42	13.98	14.54	15.1	15.66	16.22	16.78	17.34	17.9	18.46	19.02	19.58	20.14	20.7

BC Motor Exposed

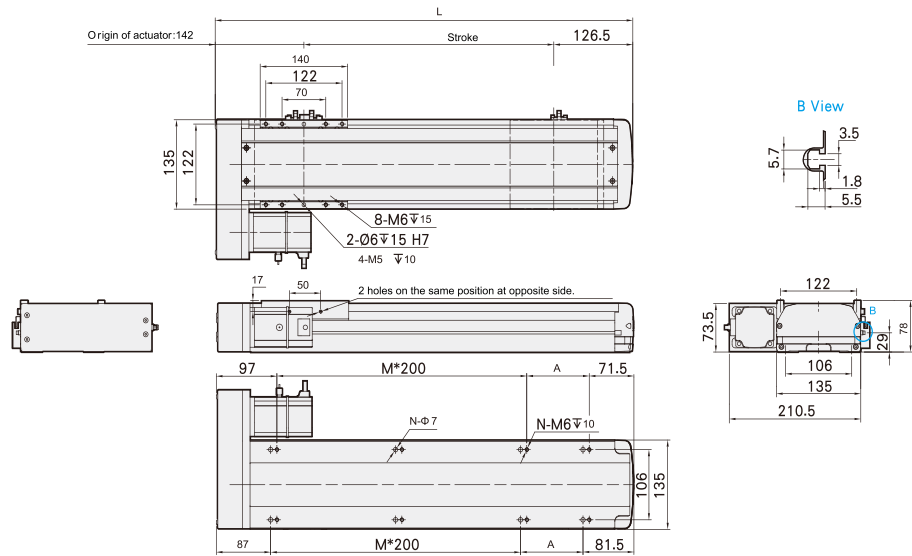
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.75	9.3	9.85	10.4	10.95	11.5	12.05	12.6	13.15	13.7	14.25	14.8	15.35	15.9	16.45	17	17.55	18.1	18.65	19.2	19.75

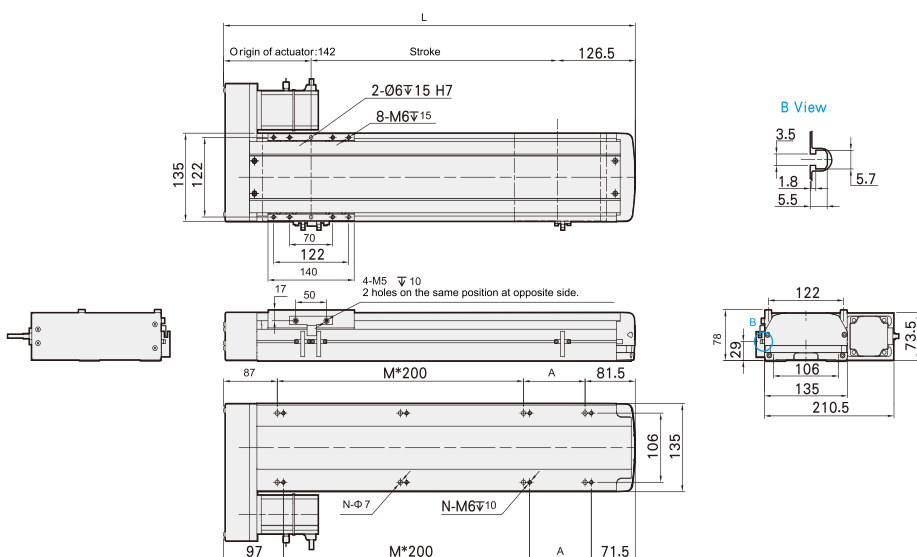
Module

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2

Unit : mm

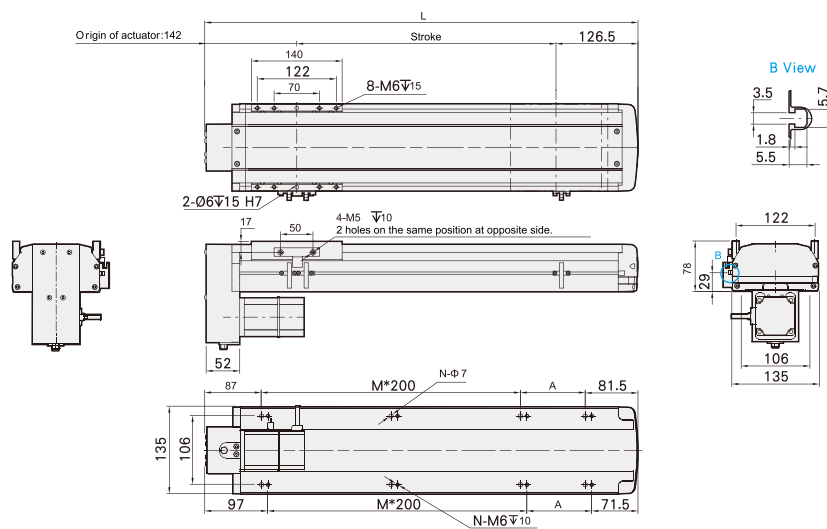


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 1050mm

Maximum Speed 1600mm/s

Motor output 400W

Ball Screw $\phi 16\text{mm}$

Linear Guide **15X12.5**
-2 pieces

Ordering Method

WETH14 L5 - 50 M M40B - C 4 0001

Model

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	400W	
T	Delta	75	-	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)*1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)		1388	694	347	218
	Stroke Pitch (mm)*2		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14/11 ^{Note 1}			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

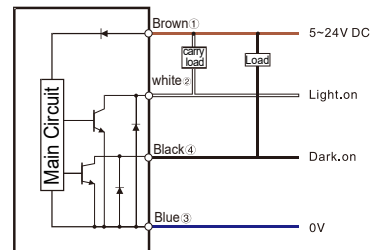
*1 Acceleration and deceleration value is set 0.2 second.

*2 When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

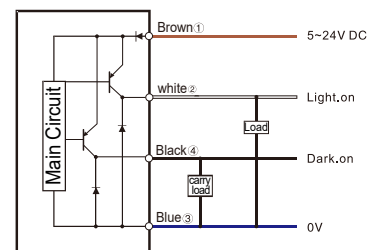
Note1: Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

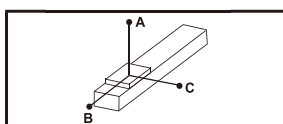
DC four-wire NPN output



DC four-wire PNP output

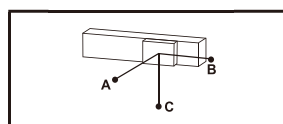


Allowable Overhang



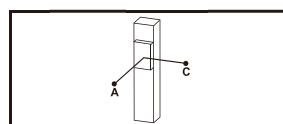
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
10 Lead	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
20 Lead	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
32 Lead	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188



(Unit : mm)

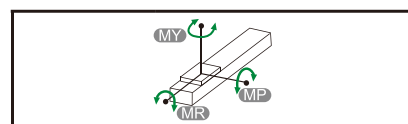
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
32 Lead	15kg	405	545	1033
	30kg	188	251	495
	-	-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	15kg	1118	1118
	22kg	770	770
	33kg	513	513
10 Lead	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682
20 Lead	7kg	1700	1700
	10kg	1188	1188
	-	-	-
32 Lead	5kg	1503	1503
	8kg	944	944
	-	-	-

Static Loading Moment



(Unit : N.m)

MY	551
MP	552
MR	455

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
* Contact us for the details if you want to apply ceiling-mount inverse usage.

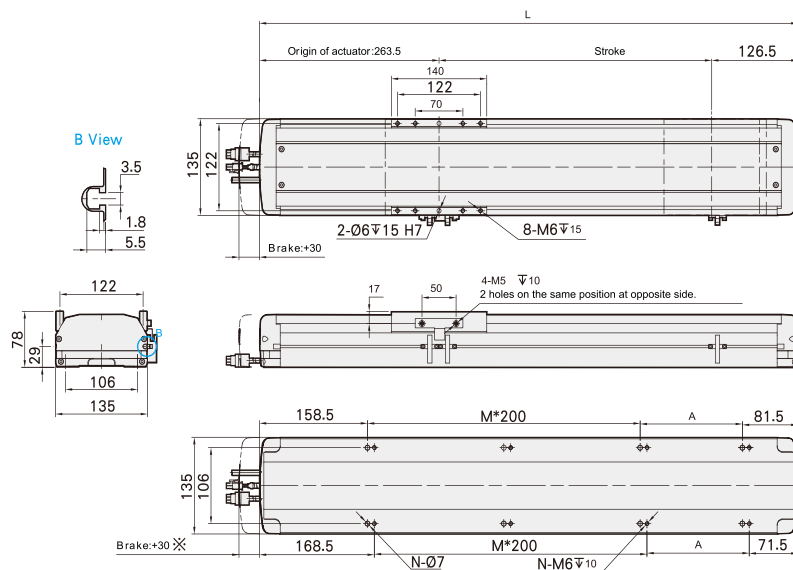
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

Unit : mm

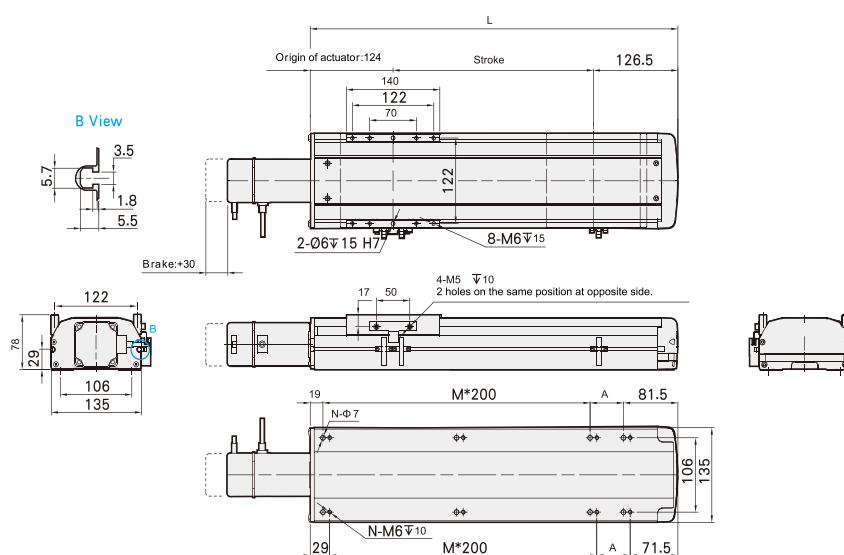


※Length will be added 40mm while using Delta 400w motor.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	9.5	10.06	10.62	11.18	11.74	12.3	12.86	13.42	13.98	14.54	15.1	15.66	16.22	16.78	17.34	17.9	18.46	19.02	19.58	20.14	20.7

BC Motor Exposed

Unit : mm

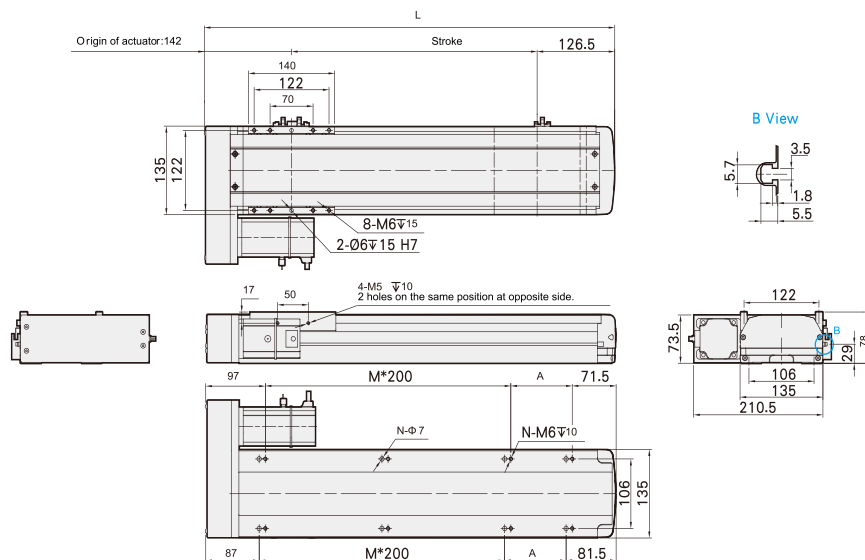


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	8.75	9.3	9.85	10.4	10.95	11.5	12.05	12.6	13.15	13.7	14.25	14.8	15.35	15.9	16.45	17	17.55	18.1	18.65	19.2	19.75

Motor Left Side / Motor Right Side

BL Motor Left Side

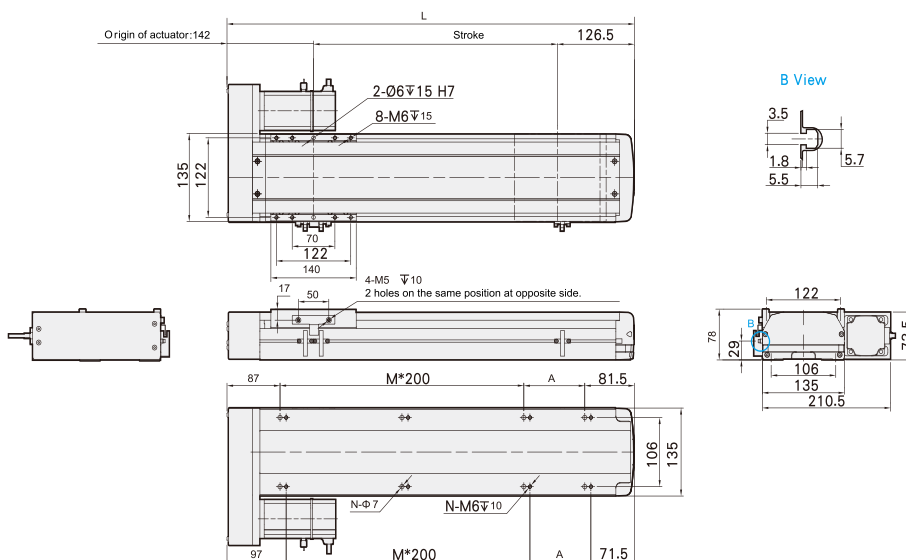
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2

BR Motor Right Side

Unit : mm

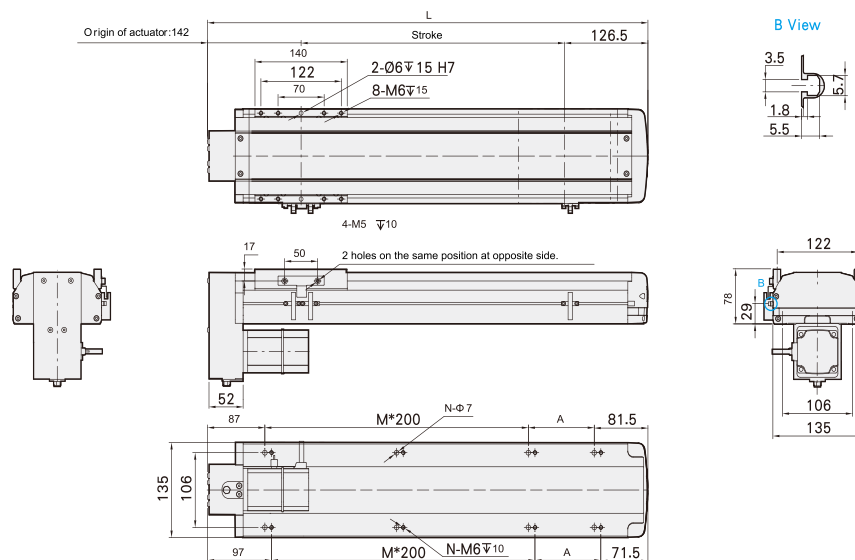


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.4	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 1250mm

Maximum Speed 2000mm/s

Motor output 400W

Ball Screw Φ 20mm

Linear Guide **20X15**
-2 pieces

Ordering Method

WETH17- L 5 - 200 - M - M40B - C 4 - 0001

Model

Customization Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	400W	
T	Delta	75	-	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	4Pc
6	5Pc
7	6Pc
8	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

Specification

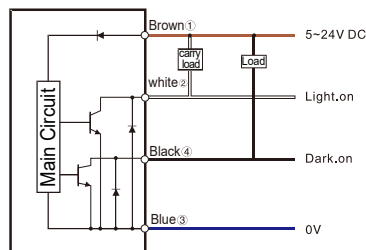
Spec	Repeatability (mm)		±0.02 (Turn±0.04)			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s) ※1		250	500	1000	2000
	Maximum Payload	Horizontal (kg)	120	110	75	22
		Vertical (kg)	40	30	14	7
	Rated Thrust (N)		1388	694	347	147
	Stroke Pitch (mm) ※2		50-1250mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw Ø (mm)		C7Φ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X14			
	Home Sensor	Outside	672 (NPN/ PNP)			
Built-In		674 (NPN/ PNP)				

Acceleration and deceleration value is set 0.2 second.

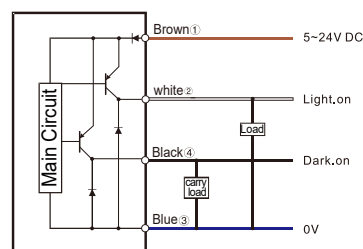
When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

Sensor Layout

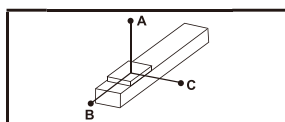
DC four-wire NPN output



DC four-wire PNP output

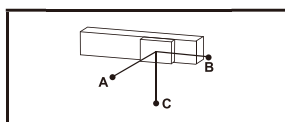


Allowable Overhang



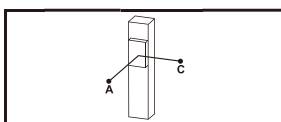
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1850	187	217
10 Lead	65kg	1911	338	373
	85kg	1445	248	276
	110kg	1102	182	202
20 Lead	35kg	1666	547	538
	55kg	1030	331	328
	75kg	733	231	230
40 Lead	15kg	1126	740	577
	22kg	755	491	384
-		-	-	-



(Unit : mm)

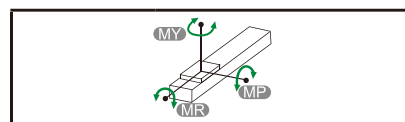
Wall Installation		A	B	C
5 Lead	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
	60kg	408	368	2092
10 Lead	80kg	296	266	1554
	110kg	202	182	1102
	30kg	633	644	1961
	50kg	365	369	1143
20 Lead	75kg	230	231	733
	12kg	729	936	1417
40 Lead	22kg	384	491	755
-		-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	20kg	1368	1368
	30kg	911	911
	40kg	683	683
	15kg	1618	1618
10 Lead	25kg	970	970
	30kg	808	808
	10kg	1922	1922
	14kg	1377	1377
20 Lead	-	-	-
	4kg	2377	2377
40 Lead	7kg	1356	1356
-		-	-

Static Loading Moment



(Unit : N.m)

MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.
 *Operation life is 10,000km when the product is using under the specified conditions.
 *Data information is not for ceiling-mount inverse use.
 *Contact us for the details if you want to apply ceiling-mount inverse usage.

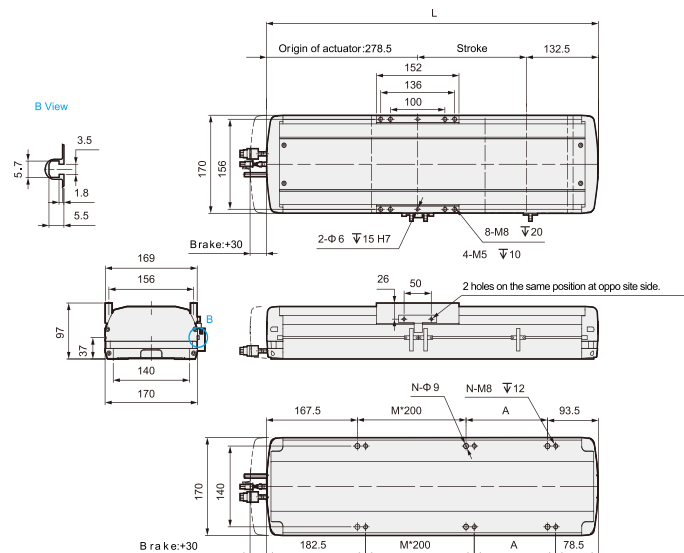
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

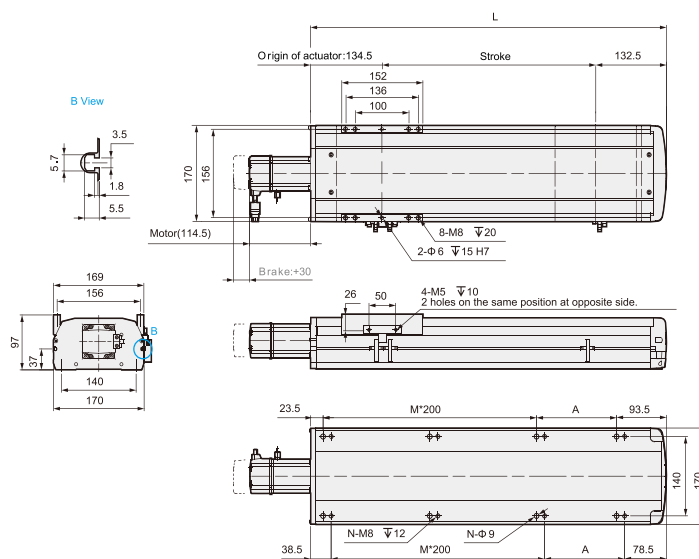
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	10.11	10.89	11.67	12.45	13.22	14	14.78	15.55	16.33	17.11	17.88	18.66	19.44	20.22	20.99	21.77	22.55	23.33	24.1	24.88	25.66	26.44	27.21	27.99	28.77

BC Motor Exposed

Unit : mm

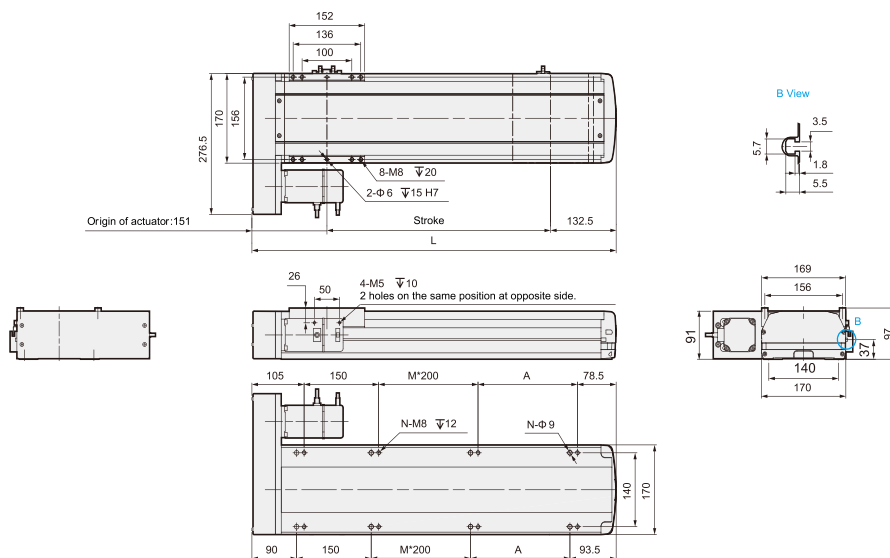


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.61	10.2	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	16.96	17.73	18.5	19.28	20.05	20.82	21.59	22.36	23.13	23.9	24.67	25.44	26.21	26.98	27.75

Motor Left Side / Motor Right Side

BL Motor Left Side

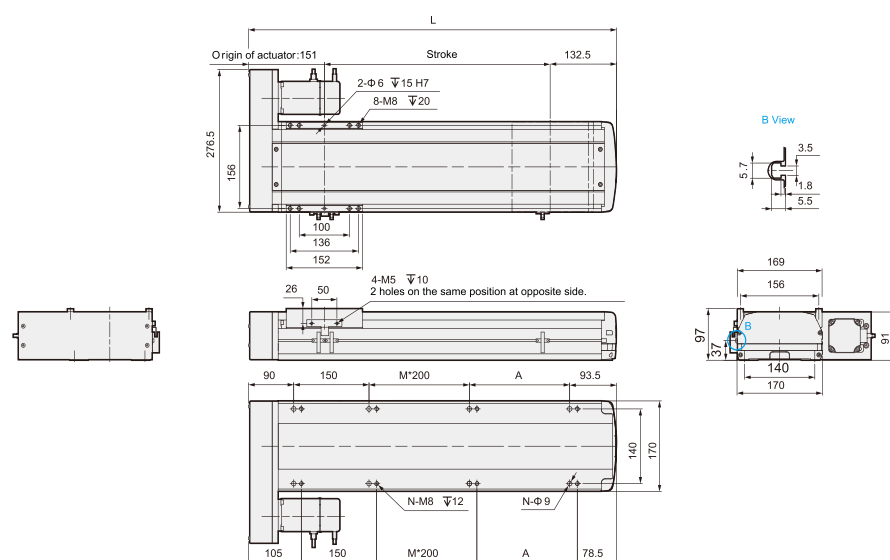
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	333.5	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

BR Motor Right Side

Unit : mm

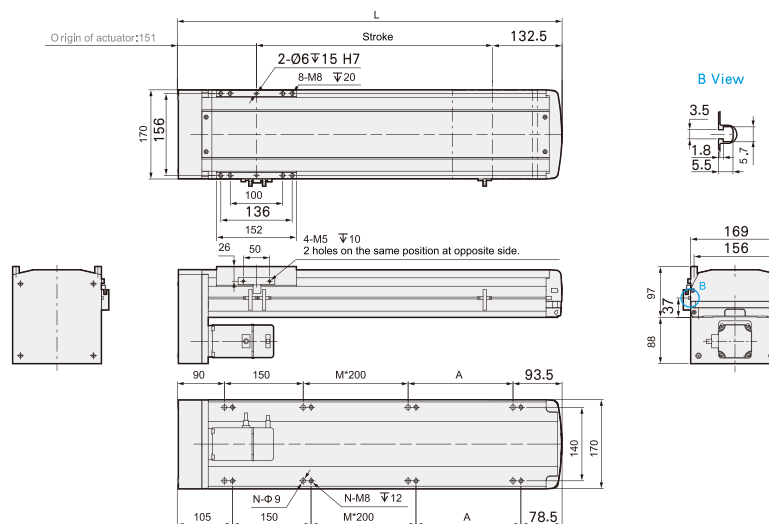


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	333.5	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	333.5	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1250mm

Maximum
Speed 2000mm/s

Motor output 750W

Ball Screw Φ 20mm

Linear Guide **20X15**
-2 pieces

Ordering Method

WETH17- L5 - 50 - M - M75B - C 4 - 0001

Model

Customization Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	750W	

* If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
40	40mm

Specification

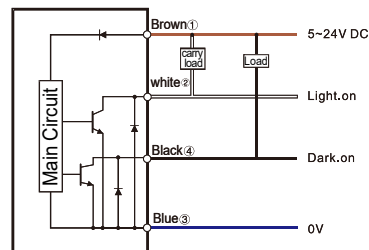
Spec	Repeatability (mm)		$\pm 0.02(\text{Turn} \pm 0.04)$			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)※1		250	500	1000	2000
	Maximum Payload	Horizontal (kg)	120	120	83	43
		Vertical (kg)	50	40	25	12
	Rated Thrust (N)		2563	1281	640	320
	Stroke Pitch (mm)※2		50-1250mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		750			
	Ball Screw Ø (mm)		C7Φ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X19			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

※1 Acceleration and deceleration value is set 0.2 second.

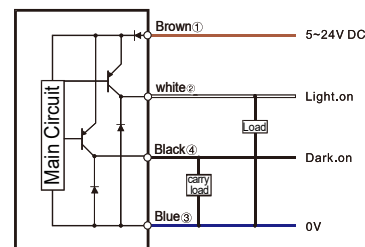
※2 When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

Sensor

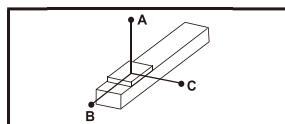
DC four-wire NPN output



DC four-wire PNP output

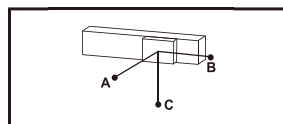


Allowable Overhang



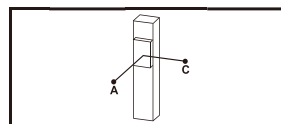
(Unit : mm)

Horizontal Installation	A	B	C
5 Lead	70kg	3235	349
	90kg	2482	263
	120kg	1861	187
10 Lead	65kg	1911	338
	85kg	1445	248
	120kg	1000	164
20 Lead	35kg	1666	547
	55kg	1030	331
	83kg	654	206
40 Lead	15kg	1126	740
	22kg	755	491
	43kg	366	231



(Unit : mm)

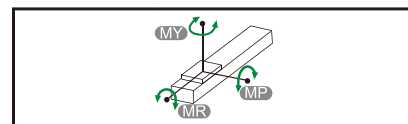
Wall Installation	A	B	C
5 Lead	75kg	377	322
	95kg	288	246
	120kg	218	187
10 Lead	60kg	408	368
	80kg	296	266
	120kg	182	164
20 Lead	30kg	633	644
	50kg	365	369
	83kg	204	206
40 Lead	12kg	729	936
	22kg	384	491
	43kg	183	231



(Unit : mm)

Vertical Installation	A	C
5 Lead	20kg	1368
	30kg	911
	50kg	546
10 Lead	15kg	1618
	25kg	970
	40kg	607
20 Lead	10kg	1922
	14kg	1377
	25kg	769
40 Lead	7kg	1356
	12kg	790
	-	-

Static Loading Moment



(Unit : N.m)

MY	1032
MP	1034
MR	908

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 * Contact us for the details if you want to apply ceiling-mount inverse usage.

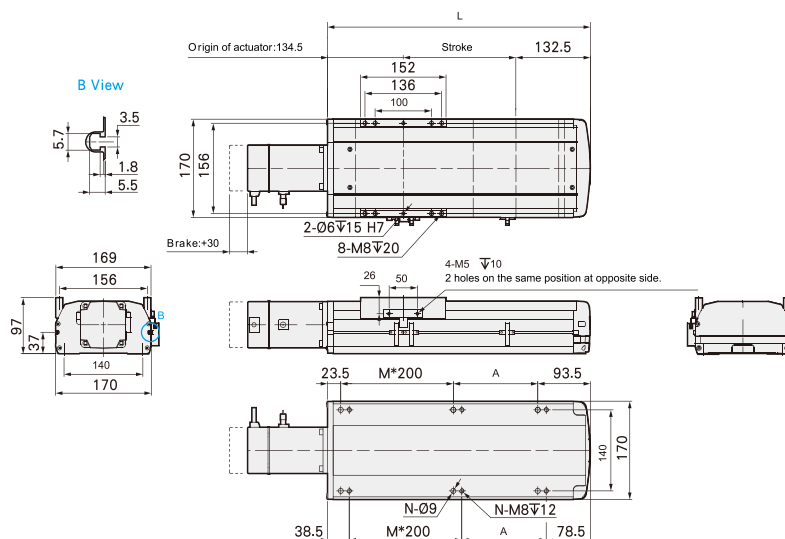
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

Motor Hidden In / Motor Exposed

BC Motor Hidden In

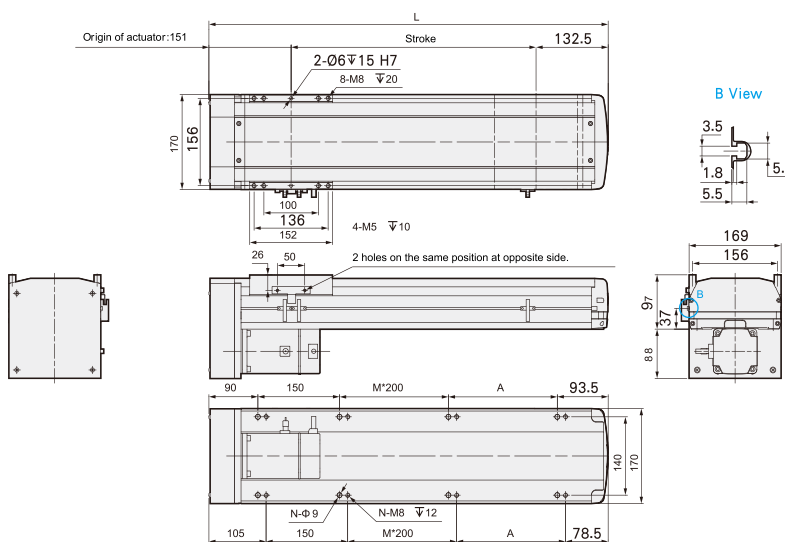
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.61	10.02	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	16.96	17.73	18.5	19.28	20.05	20.82	21.59	22.36	23.13	23.9	24.67	25.44	26.21	26.98	27.75

BM Motor Bottom Side

Unit : mm

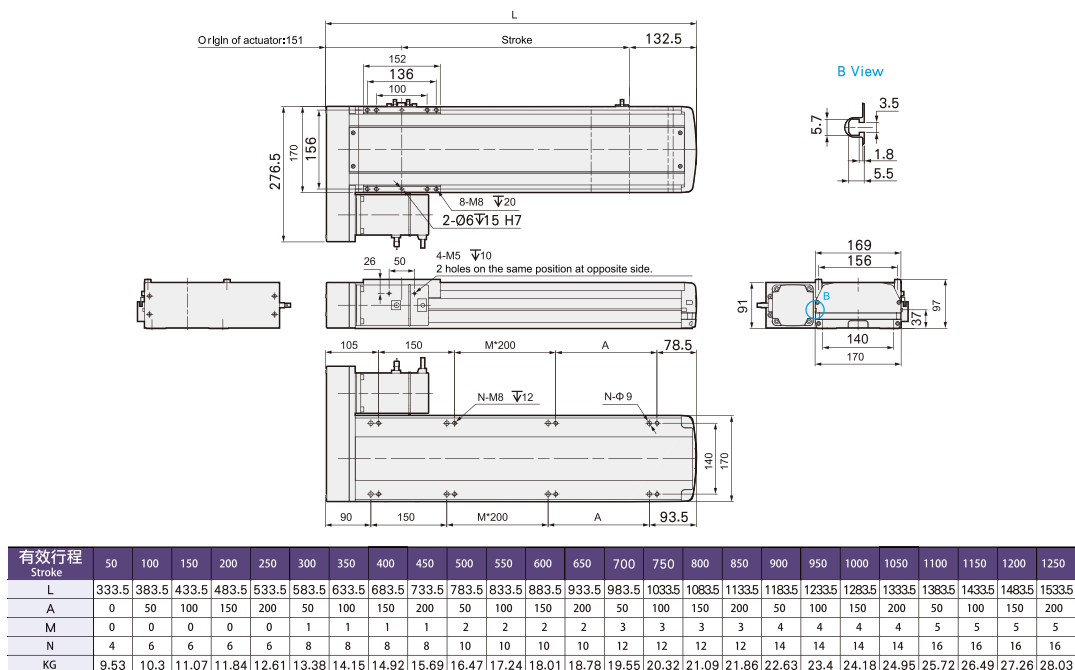


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	333.5	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	9.53	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

Motor Left Side / Motor Right Side

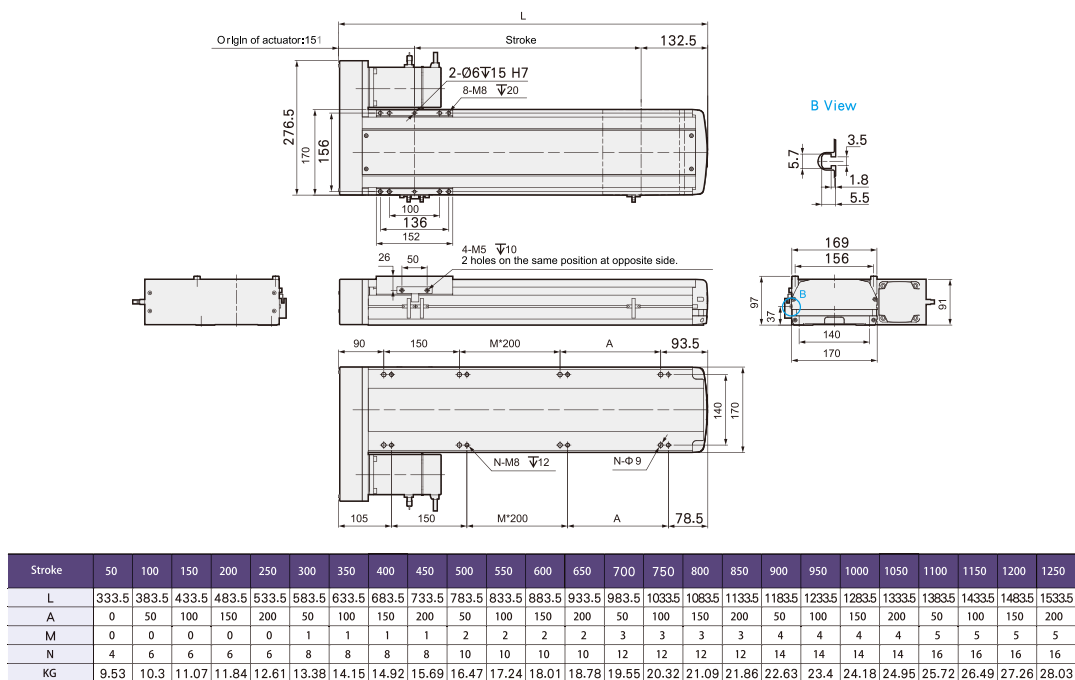
BL Motor Left Side

Unit : mm



BR Motor Right Side

Unit : mm





The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1500mm

Maximum
Speed 2000mm/s

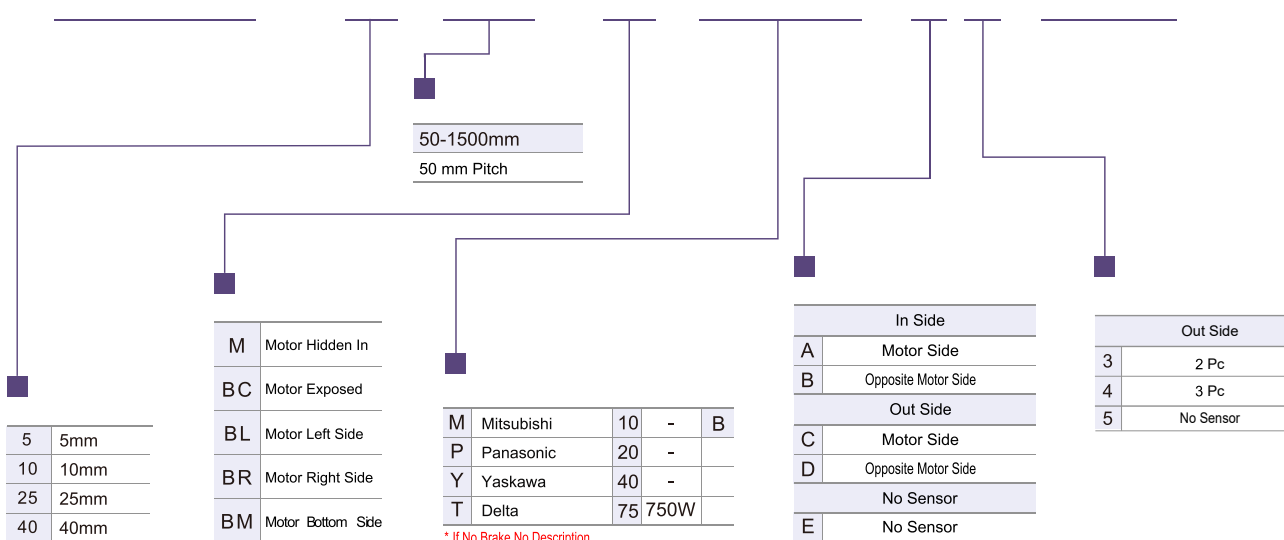
Motor output 750W

Ball Screw Φ 25mm

Linear Guide **23X18**
-2 pieces

Ordering Method

WETH22- L25 - 50 - M - M75B - C 4 - 0001



Specification

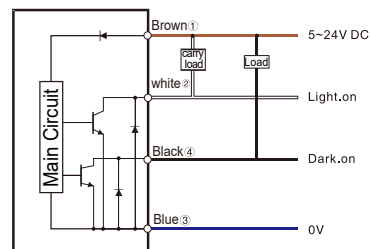
Spec	Repeatability (mm)		±0.02(Turn±0.04)			
	Ball Screw Lead (mm)		5	10	25	40
	Maximum Speed (mm/s)※1		250	500	1250	2000
	Maximum Payload	Horizontal (kg)	150	150	105	43
		Vertical (kg)	55	45	20	12
	Rated Thrust (N)		2563	1281	640	320
	Stroke Pitch (mm)※2		50-1500mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		750			
	Ball Screw Ø (mm)		C7Φ 25			C7Φ 20
	High Rigidity Linear Guide (mm)		W23XH18			
	Coupling (mm)		17X19			12X19
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

※ Acceleration and deceleration value is set 0.2 second.

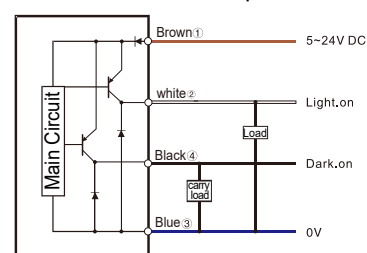
※ When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

Sensor

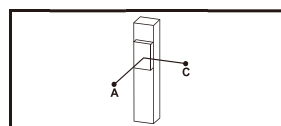
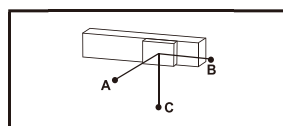
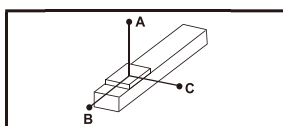
DC four-wire NPN output



DC four-wire PNP output



Allowable Overhang



(Unit : mm)

Horizontal installation	A	B	C
5 Lead	100kg	5000	633 557
	125kg	3880	491 431
	150kg	3357	396 347
10 Lead	100kg	3220	563 474
	125kg	2554	434 367
	150kg	2113	349 295
25 Lead	65kg	1522	614 458
	85kg	1136	451 336
	105kg	893	350 262
40 Lead	18kg	2445	1616 1052
	30kg	1436	938 613
	43kg	978	630 412

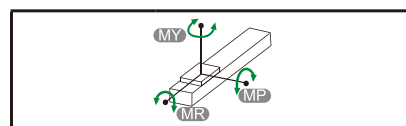
(Unit : mm)

Wall Installation	A	B	C
5 Lead	110kg	500	569 4500
	130kg	412	469 3711
	150kg	347	396 3357
10 Lead	110kg	427	503 2900
	130kg	351	414 2444
	150kg	295	349 2113
25 Lead	70kg	420	564 1404
	90kg	315	420 1066
	105kg	262	350 893
40 Lead	15kg	1272	1955 2948
	24kg	778	1190 1813
	43kg	412	630 978

(Unit : mm)

Vertical Installation	A	C
5 Lead	30kg	2355 2355
	40kg	1768 1768
	55kg	1288 1288
10 Lead	25kg	2505 2505
	35kg	1795 1795
	45kg	1396 1396
25 Lead	15kg	2711 2711
	20kg	2033 2033
	-	- -
40 Lead	7kg	3511 3511
	12kg	2055 2055
	-	- -

Static Loading Moment



(Unit : N.m)

MY	2052
MP	2052
MR	1810

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 * Contact us for the details if you want to apply ceiling-mount inverse usage.

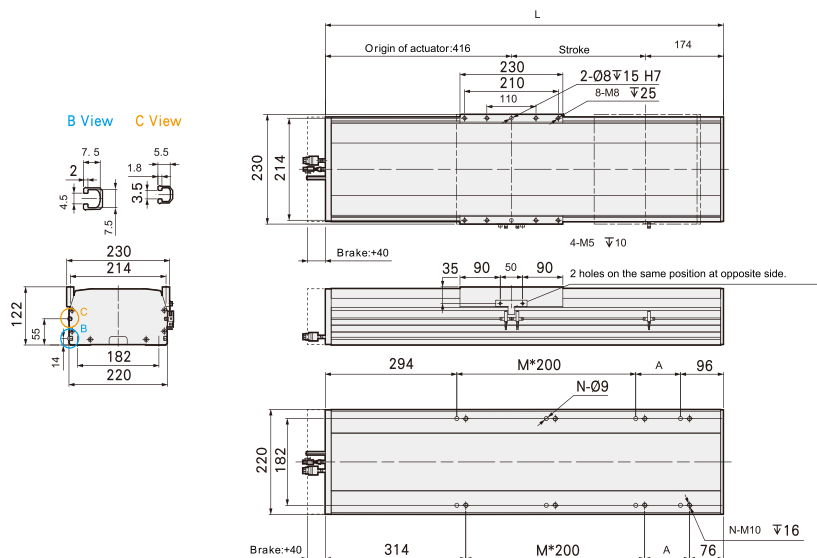
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

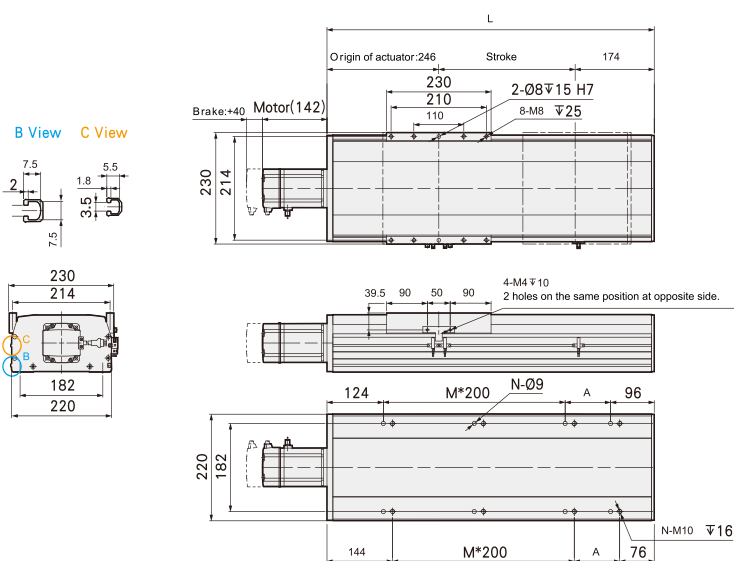
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	27.85	29.32	30.79	32.26	33.73	35.2	36.67	38.14	39.61	41.08	42.55	44.02	45.49	46.96	48.43	49.9	51.37	52.84	54.31	55.78	57.25	58.72	60.19	61.66	63.13	64.6	66.07	67.54	69.01	70.48

BC Motor Exposed

Unit : mm

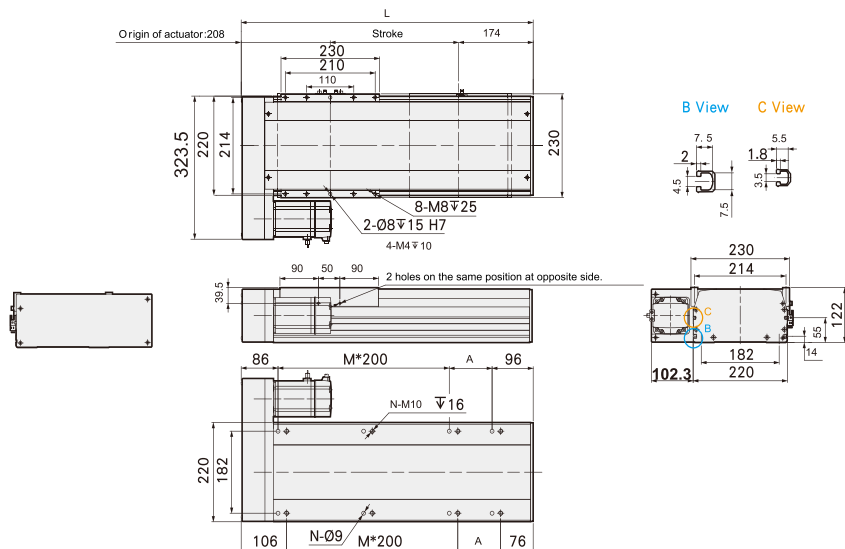


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.4	26.86	28.32	29.78	31.24	32.7	34.16	35.62	37.08	38.54	40	41.46	42.92	44.38	45.84	47.3	48.76	50.22	51.68	53.14	54.6	56.06	57.52	58.98	60.44	61.9	63.36	64.82	66.28	67.74

Motor Left Side / Motor Right Side

BL Motor Left Side

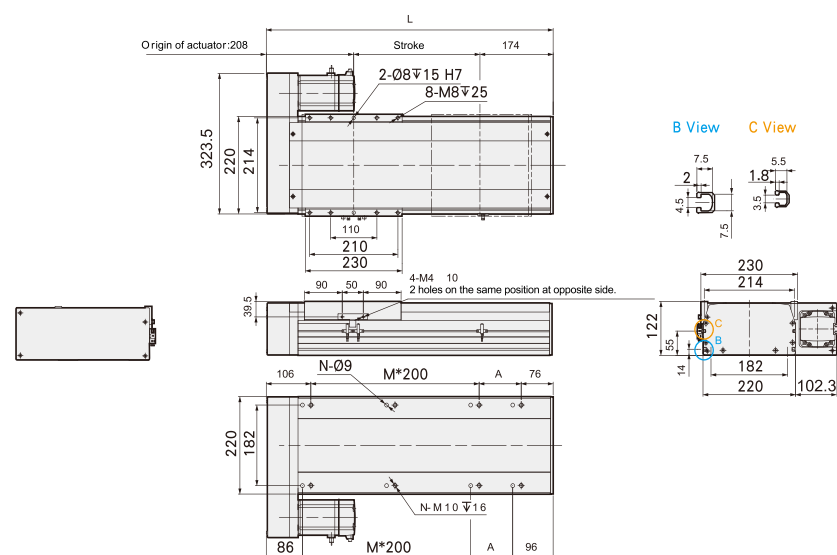
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	18	20	20
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.5

BR Motor Right Side

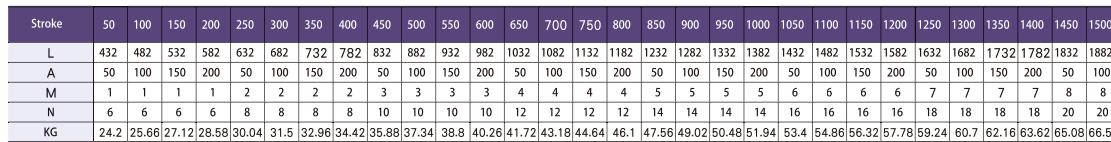
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

BM Motor Bottom Side

Module





Customizable for clean room type.

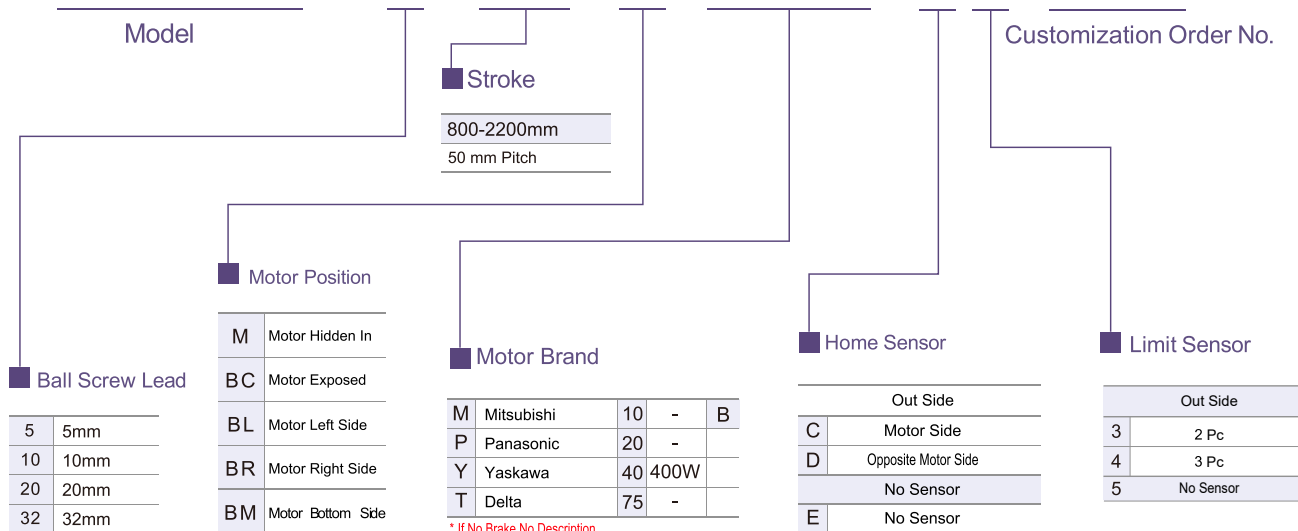
The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke	2200mm	Maximum Speed	1600mm/s	Motor output	400W	Ball Screw	Φ 20mm	Linear Guide	20X15 -2 pieces
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*Motor maximum speed:2400rpm

Ordering Method

WETH17M - L5 - 900 - M - M40B - C 4 - 0001



Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)※1		200	400	800	1600
	Maximum Payload	Horizontal (kg)	110	90	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)		1388	694	347	218
	Stroke Pitch (mm)※2		800-2200mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)※3		400			
	Ball Screw Φ (mm)		C7 Φ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X14			
	Home Sensor	Outside	672 (NPN/ PNP)			

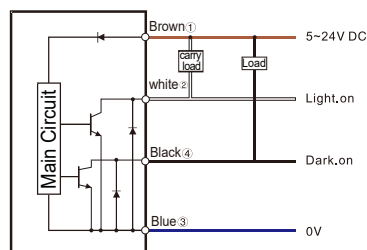
※1 Acceleration and deceleration value is set 0.2 second.

※2 When the stroke is over 1600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

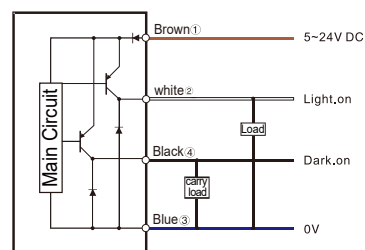
※3 Maximum motor speed : 2400rpm.

Sensor Layout

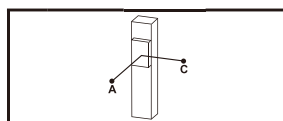
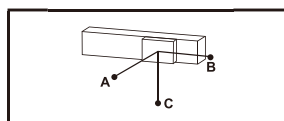
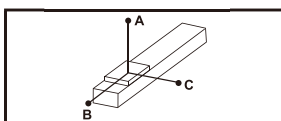
DC four-wire NPN output



DC four-wire PNP output



Allowable Overhang

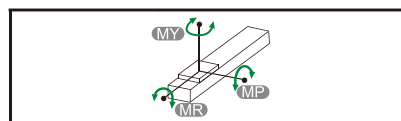


Horizontal installation		A	B	C
5 Lead	70kg	2092	162	208
	90kg	1555	117	149
	110kg	1210	88	113
10 Lead	60kg	1107	172	208
	75kg	848	130	156
	90kg	680	101	122
20 Lead	20kg	1498	491	520
	30kg	973	313	334
	40kg	712	225	238
32 Lead	10kg	1311	692	625
	20kg	633	326	295
	30kg	405	203	187

Wall Installation		A	B	C
5 Lead	75kg	190	148	1911
	95kg	140	108	1450
	110kg	113	88	1210
	65kg	188	156	1008
10 Lead	80kg	144	119	788
	90kg	122	101	680
	25kg	408	382	1180
	35kg	280	262	825
20 Lead	40kg	238	225	712
	15kg	408	449	860
	25kg	230	252	495
32 Lead	30kg	187	203	405

Vertical Installation		A	C
5 Lead	15kg	940	940
	22kg	640	640
	33kg	427	427
	10kg	1248	1248
10 Lead	14kg	894	894
	22kg	569	569
	7kg	1417	1417
	10kg	993	993
20 Lead	-	-	-
	5kg	1255	1255
32 Lead	8kg	785	785
	-	-	-

Static Loading Moment



MY	552
MP	552
MR	638

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 * Contact us for the details if you want to apply ceiling-mount inverse usage.

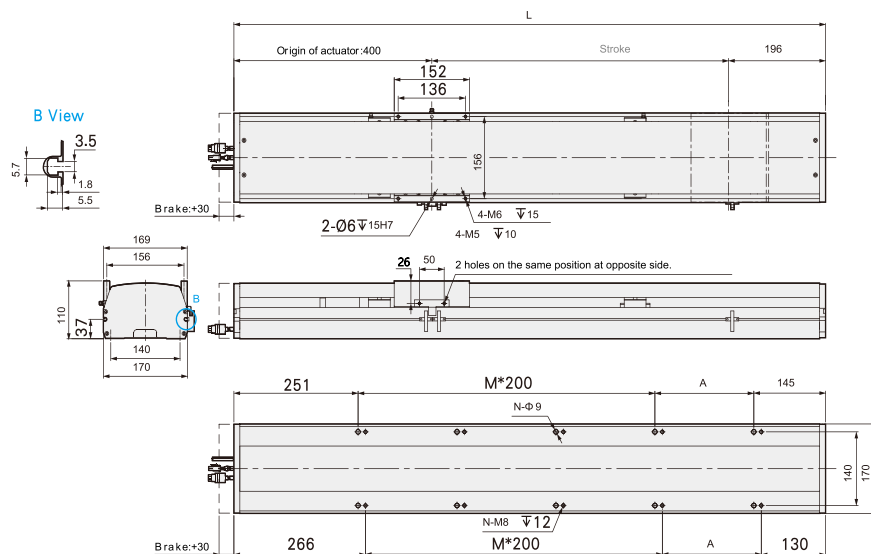
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

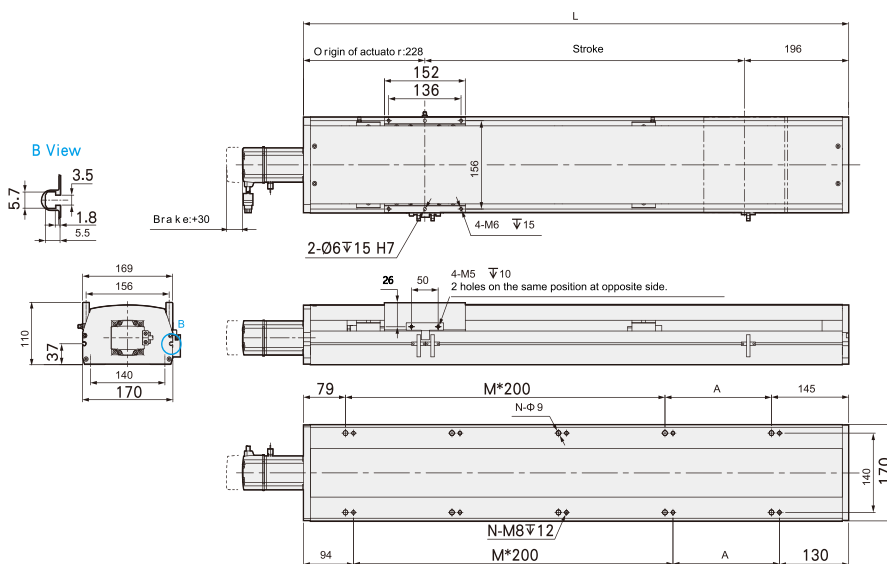
Unit : mm



Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.88	30.56	31.24	31.92	32.6	33.28	33.96	34.64	35.32	36	36.68	37.36	38.04	38.72	39.4	40.08	40.76	41.44	42.12	42.8	43.48	44.16	44.84	45.52	46.2	46.88	47.56	48.24	48.92

BC Motor Exposed

Unit : mm

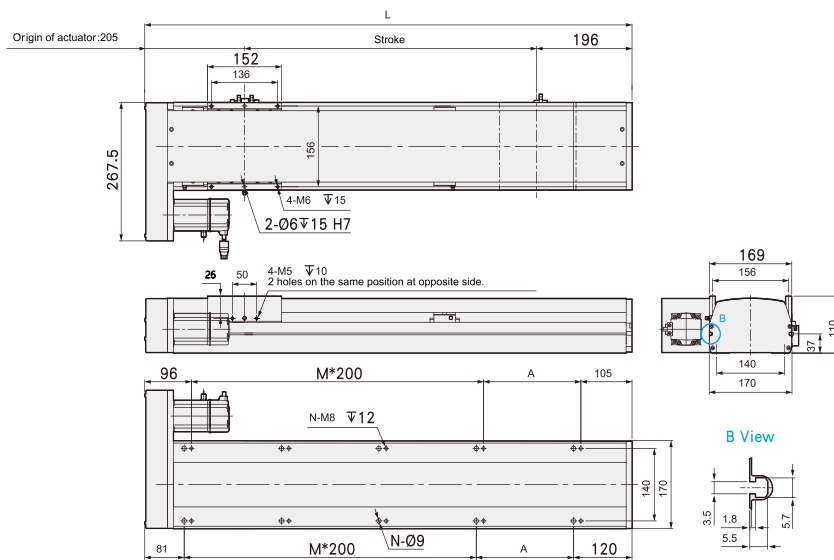


Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974	2024	2074	2124	2174	2224	2274	2324	2374	2424	2474	2524	2574	2624
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	28.99	29.67	30.35	31.03	31.71	32.39	33.07	33.75	34.43	35.11	35.79	36.47	37.15	37.83	38.51	39.19	39.87	40.55	41.23	41.91	42.59	43.27	43.95	44.63	45.31	45.99	46.67	47.35	48.03

Motor Left Side / Motor Right Side

BL Motor Left Side

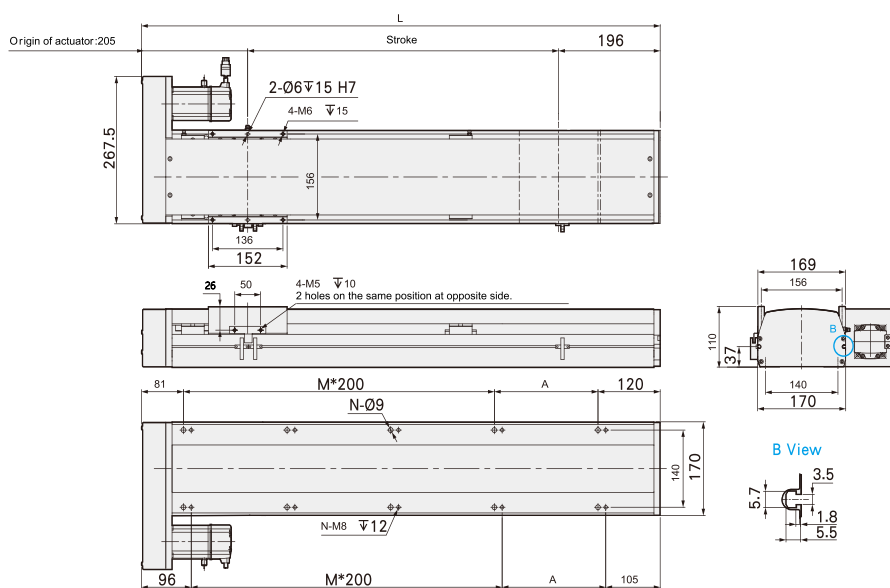
Unit : mm



Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9

BR Motor Right Side

Unit : mm

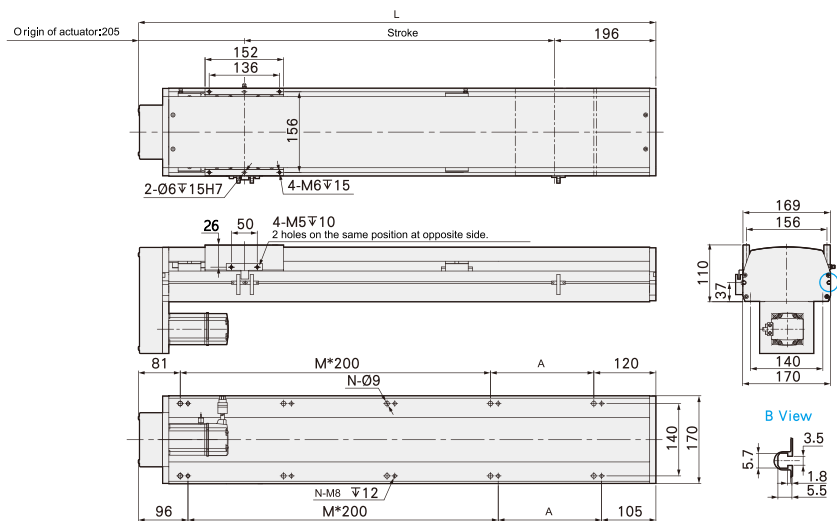


Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.86	30.54	31.22	31.9	32.58	33.26	33.94	34.62	35.3	35.98	36.66	37.34	38.02	38.7	39.38	40.06	40.74	41.42	42.1	42.78	43.46	44.14	44.82	45.5	46.18	46.86	47.54	48.22	48.9



Customizable for clean room type.

The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 2200mm

Maximum Speed 1600mm/s

* Maximum motor speed: 2400rpm.

Motor output 750W

Ball Screw Φ 20mm

Linear Guide **20X15**
-2 pieces

Ordering Method

WETH17M - L 5 - 900 - BC - M75B - C 4 - 0001

Model

Stroke

800-2200mm
50 mm Pitch

Customization Order No.

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	750W	

* If No Brake, No Description.

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

	Ball Screw Lead
5	5mm
10	10mm
20	20mm
32	32mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s) ^{※1}		200	400	800	1600
	Maximum Payload	Horizontal (kg)	120	95	50	35
		Vertical (kg)	40	25	15	12
	Rated Thrust (N)		2563	1281	640	400
	Stroke Pitch (mm) ^{※2}		800-2200mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W) ^{※3}		750			
	Ball Screw $\varnothing$ (mm)		C7 $\varnothing$ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X19			
	Home Sensor	Outside	672 (NPN/ PNP)			

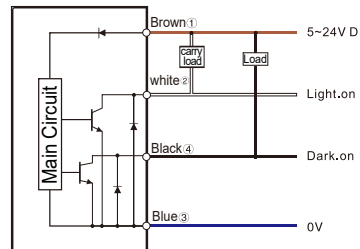
※1 Acceleration and deceleration value is set 0.2 second.

※2 When the stroke is over 1600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

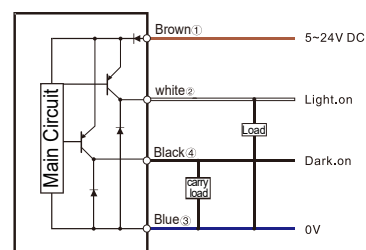
※3 Maximum motor speed : 2400rpm.

Sensor

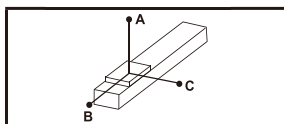
DC four-wire NPN output



DC four-wire PNP output

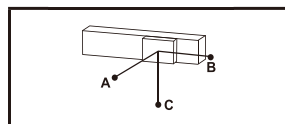


Allowable Overhang



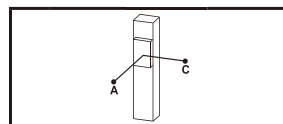
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	70kg	2092	162	208
	90kg	1555	117	149
	120kg	1080	78	100
10 Lead	60kg	1107	172	208
	75kg	848	130	156
	95kg	637	94	114
20 Lead	20kg	1498	491	520
	30kg	973	313	334
	50kg	550	172	182
32 Lead	10kg	1311	692	625
	20kg	633	326	295
	35kg	339	169	156



(Unit : mm)

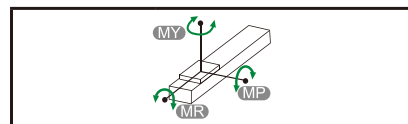
Wall Installation		A	B	C
5 Lead	75kg	190	148	1911
	95kg	140	108	1450
	120kg	100	78	1080
10 Lead	65kg	188	156	1008
	80kg	144	119	788
	95kg	114	94	637
20 Lead	25kg	408	382	1180
	35kg	280	262	825
	50kg	182	172	550
32 Lead	15kg	408	449	860
	25kg	230	252	495
	35kg	156	169	339



(Unit : mm)

Vertical installation		A	C
5 Lead	15kg	940	940
	22kg	640	640
	40kg	350	350
10 Lead	10kg	1248	1248
	14kg	894	894
	25kg	499	499
20 Lead	7kg	1417	1417
	10kg	993	993
	15kg	660	660
32 Lead	5kg	1255	1255
	8kg	785	785
	12kg	525	525

Static Loading Moment



(Unit : N.m)

MY	552
MP	552
MR	638

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 * Contact us for the details if you want to apply ceiling-mount inverse usage.

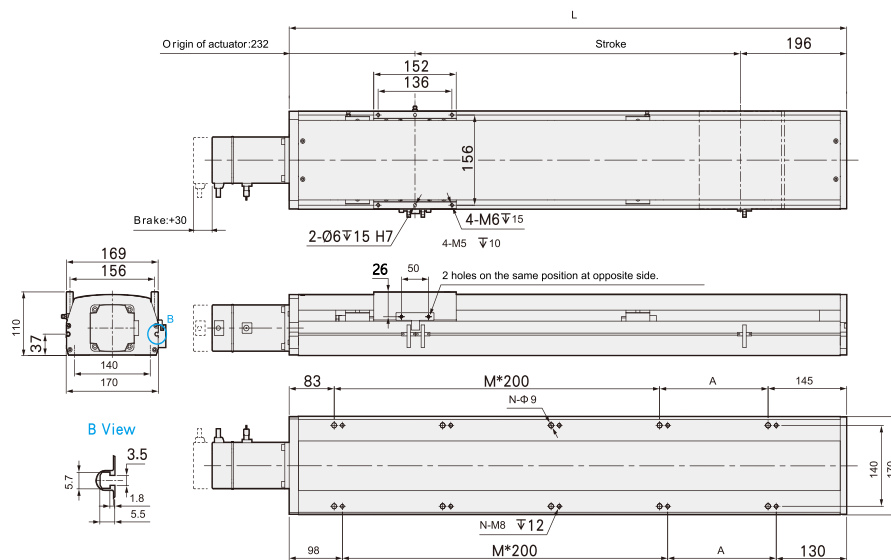
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

Motor Hidden In / Motor Exposed

BC Motor Hidden In

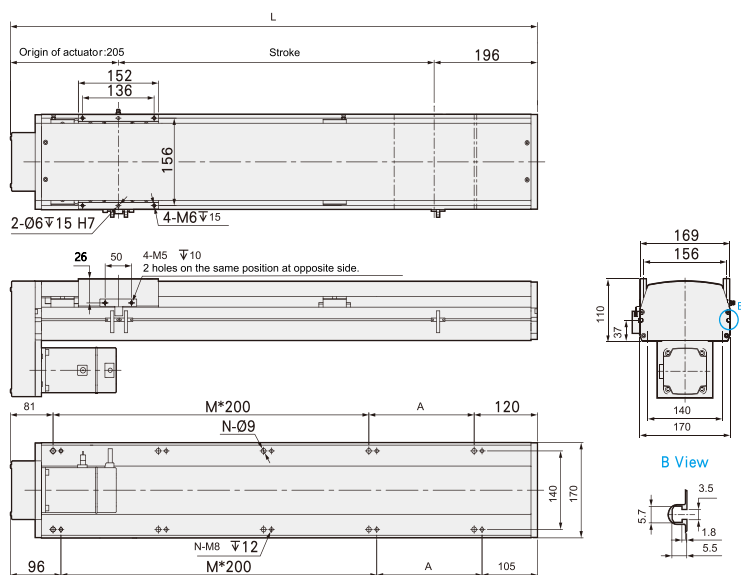
Unit : mm



Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128	2178	2228	2278	2328	2378	2428	2478	2528	2578	2628
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	29.74	30.42	31.1	31.78	32.46	33.14	33.82	34.5	35.18	35.86	36.54	37.22	37.9	38.58	39.26	39.94	40.62	41.3	41.98	42.66	43.34	44.02	44.7	45.38	46.06	46.74	47.42	48.1	48.78

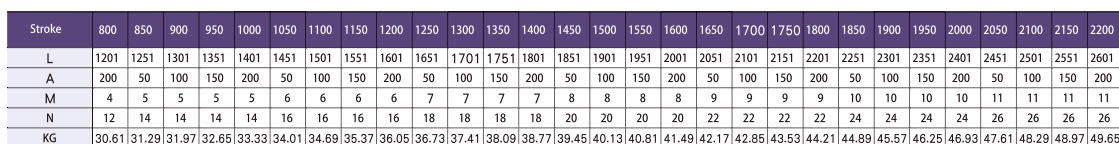
BM Motor Bottom Side

Unit : mm

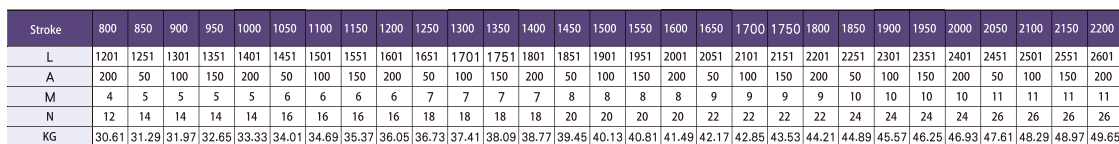


Stroke	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
L	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101	2151	2201	2251	2301	2351	2401	2451	2501	2551	2601
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
N	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26
KG	30.61	31.29	31.97	32.65	33.33	34.01	34.69	35.37	36.05	36.73	37.41	38.09	38.77	39.45	40.13	40.81	41.49	42.17	42.85	43.53	44.21	44.89	45.57	46.25	46.93	47.61	48.29	48.97	49.65

Unit : mm



Unit : mm





Customizable for clean room typ

The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 2400mmMaximum
Speed 1600mm/s

Motor output 750W

Ball Screw Ø 25mm

Linear Guide **20X17.**
5-2 pieces

※ Maximum motor speed: 2400rpm.

Ordering Method

WETH22M - L20 - 900 - M - M75B - C 4 - 0001

Model

Customization Order No.

Stroke

850-2400mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	750W	

* If No Brake, No Description.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
40	40mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	25	40
	Maximum Speed (mm/s) ^{※1}		200	400	1000	1600
	Maximum Payload	Horizontal (kg)	130	130	85	43
		Vertical (kg)	50	40	25	12
	Rated Thrust (N)		2563	1281	640	320
	Stroke Pitch (mm) ^{※2}		850-2400mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W) ^{※3}		750			
	Ball Screw Ø (mm)		C7Φ 25			
	High Rigidity Linear Guide (mm)		W20XH17.5			
	Coupling (mm)		17X19			
	Home Sensor	Outside	672 (NPN/ PNP)			

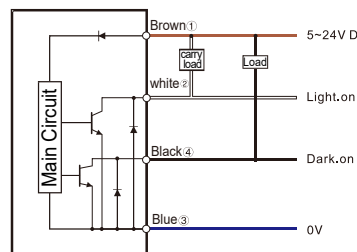
※1 Acceleration and deceleration value is set 0.2 second.

※2 When the stroke is over 2050mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

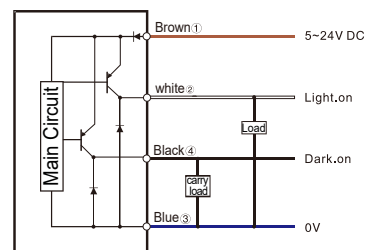
※3 Maximum motor speed : 2400rpm.

Sensor

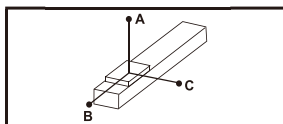
DC four-wire NPN output



DC four-wire PNP output

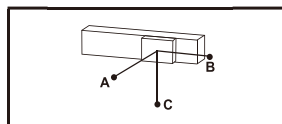


Allowable Overhang



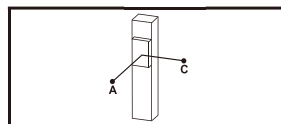
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	80kg	3311	411	403
	100kg	2534	320	308
	130kg	2113	228	221
10 Lead	70kg	2700	430	394
	90kg	2022	320	294
	130kg	1311	198	184
20 Lead	40kg	2044	662	558
	60kg	1316	417	352
	85kg	886	272	231
40 Lead	20kg	1180	766	533
	25kg	927	599	418
	43kg	510	318	224



(Unit : mm)

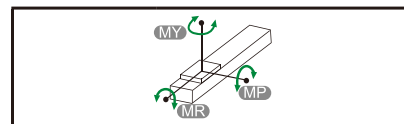
Wall Installation		A	B	C
5 Lead	85kg	370	388	3066
	105kg	288	299	2389
	130kg	221	228	2113
10 Lead	75kg	368	398	2515
	95kg	277	300	1926
	130kg	184	198	1328
20 Lead	45kg	490	582	1805
	65kg	321	381	1204
	85kg	231	272	886
40 Lead	25kg	418	601	930
	35kg	286	408	644
	43kg	224	318	510



(Unit : mm)

Vertical Installation		A	C
5 Lead	30kg	1301	1301
	40kg	977	977
	50kg	781	781
10 Lead	20kg	1735	1735
	30kg	1156	1156
	40kg	867	867
20 Lead	15kg	1835	1835
	20kg	1376	1376
	25kg	1101	1101
40 Lead	7kg	1943	1943
	12kg	1133	1133
	-	-	-

Static Loading Moment



(Unit : N.m)

MY	1254
MP	1254
MR	1254

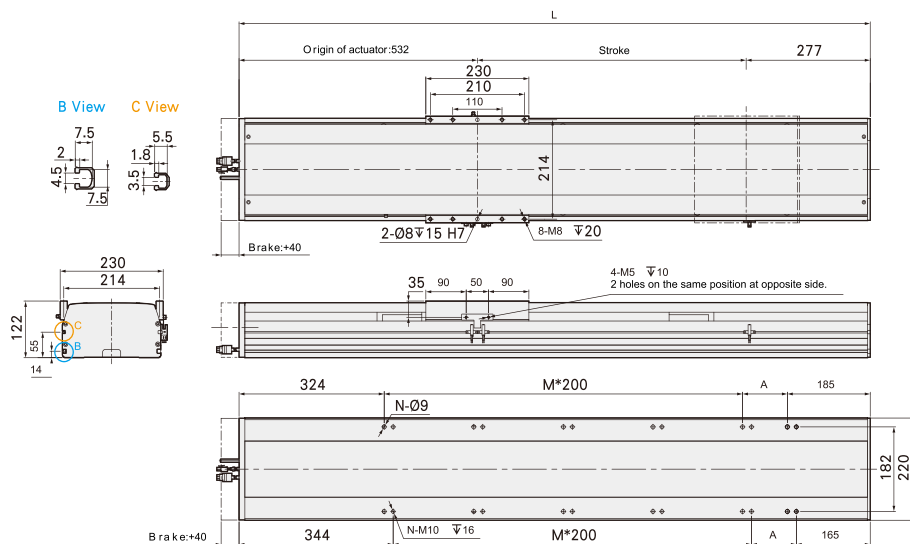
* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 * Contact us for the details if you want to apply ceiling-mount inverse usage.

Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

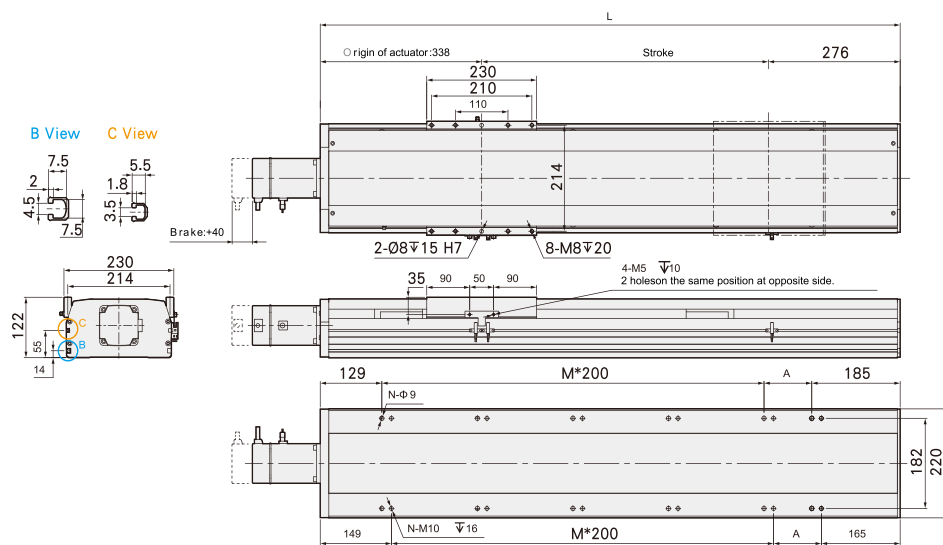
Module

Unit : mm



Stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	1659	1709	1759	1809	1859	1909	1959	2009	2059	2109	2159	2209	2259	2309	2359	2409	2459	2509	2559	2609	2659	2709	2759	2809	2859	2909	2959	3009	3059	3109	3159	3209
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13
N	14	14	14	14	16	16	18	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	26	26	26	26	28	28	28	28	30	30
KG	56.61	57.97	59.33	60.69	62.05	63.41	64.77	66.13	67.49	68.85	70.21	71.57	72.93	74.29	75.65	77.01	78.37	79.73	81.09	82.45	83.81	85.17	86.53	87.89	89.25	90.61	91.97	93.33	94.69	96.05	97.41	98.77

Unit : mm

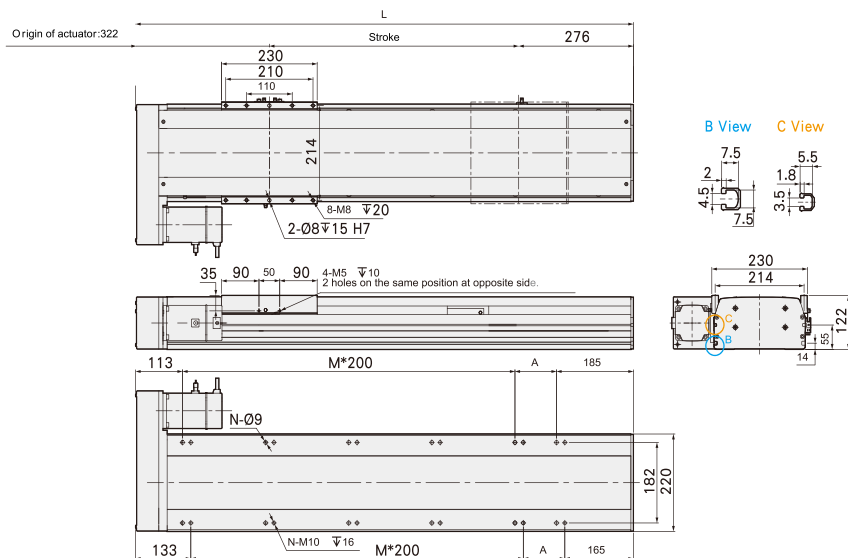


Stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	1464	1514	1564	1614	1664	1714	1764	1814	1864	1914	1964	2014	2064	2114	2164	2214	2264	2314	2364	2414	2464	2514	2564	2614	2664	2714	2764	2814	2864	2914	2964	3014
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13
N	14	14	14	16	16	16	19	18	18	18	18	20	20	20	20	22	22	24	24	24	24	26	26	26	26	26	28	28	28	28	30	30
KG	53.91	55.27	56.63	57.99	59.35	60.71	62.07	63.43	64.79	66.15	67.51	68.87	70.23	71.59	72.95	74.31	75.67	77.03	78.39	79.75	81.11	82.47	83.83	85.19	86.55	87.91	89.27	90.63	91.99	93.35	94.71	96.07

Motor Left Side / Motor Right Side

BL Motor Left Side

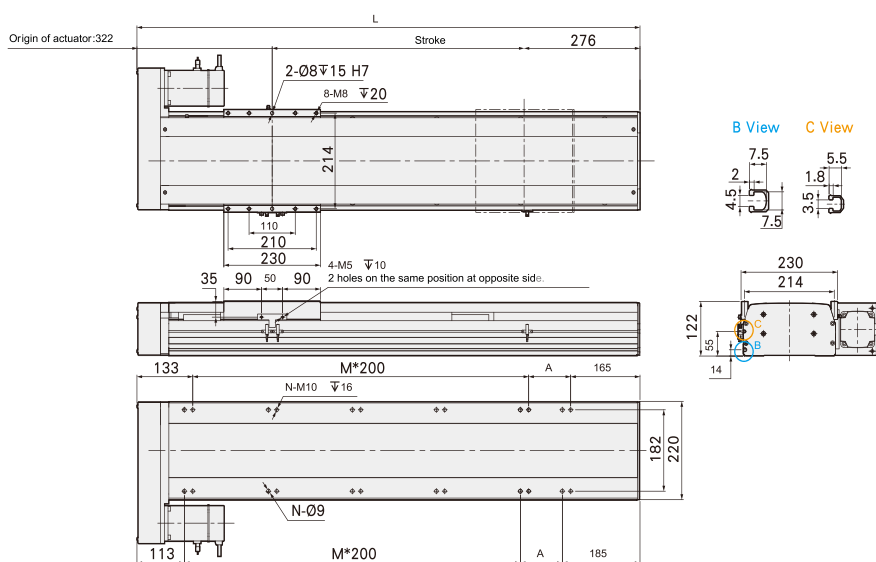
Unit : mm



Stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898	1948	1998	2048	2098	2148	2198	2248	2298	2348	2398	2448	2498	2548	2598	2648	2698	2748	2798	2848	2898	2948	2998
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	13	13
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	30	30
KG	55.11	56.47	57.83	59.19	60.55	61.91	63.27	64.63	65.99	67.35	68.71	70.07	71.43	72.79	74.15	75.51	76.87	78.23	79.59	80.95	82.31	83.67	85.03	86.39	87.75	89.11	90.47	91.83	93.19	94.55	95.91	97.27

BR Motor Right Side

Unit : mm

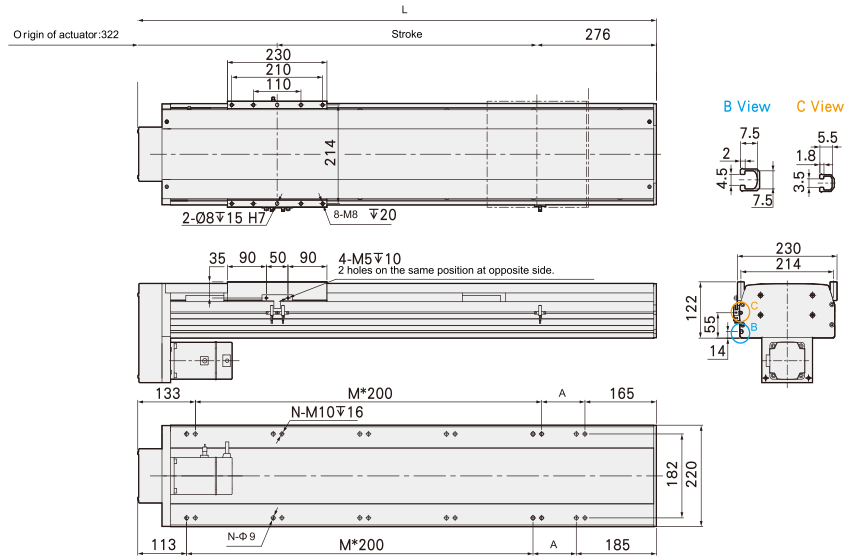


Stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898	1948	1998	2048	2098	2148	2198	2248	2298	2348	2398	2448	2498	2548	2598	2648	2698	2748	2798	2848	2898	2948	2998
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	13	13
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	30	30
KG	55.11	56.47	57.83	59.19	60.55	61.91	63.27	64.63	65.99	67.35	68.71	70.07	71.43	72.79	74.15	75.51	76.87	78.23	79.59	80.95	82.31	83.67	85.03	86.39	87.75	89.11	90.47	91.83	93.19	94.55	95.91	97.27

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898	1948	1998	2048	2098	2148	2198	2248	2298	2348	2398	2448	2498	2548	2598	2648	2698	2748	2798	2848	2898	2948	2998
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30
KG	55.11	56.47	57.83	59.19	60.55	61.91	63.27	64.63	65.99	67.35	68.71	70.07	71.43	72.79	74.15	75.51	76.87	78.23	79.59	80.95	82.31	83.67	85.03	86.39	87.75	89.11	90.47	91.83	93.19	94.55	95.91	97.27

MEMO



WE CB Series

Clean Room/Belt Type

CONTENTS

Clean Room/Belt Type

SMAL

WE CB5



Body Width:50mm
Maximum travel:800mm
Maximum load:10kg

189

LARG

WE CB17



Body Width:170mm
Maximum travel:4050mm
Maximum load:45kg

217

SMAL

WE CB6



Body Width:65mm
Maximum travel:800mm
Maximum load:15kg

195

LARG

WE CB22



Body Width:220mm
Maximum travel:3500mm
Maximum load:85kg

223

MEDIUM

WE CB10



Body Width:102mm
Maximum travel:2550mm
Maximum load:10kg

201

MEDIUM

WE CB12



Body Width:102mm
Maximum travel:2550mm
Maximum load:22kg

206

MEDIUM

WE CB14



Body Width:135mm
Maximum travel:3050mm
Maximum load:25kg

212

Dust-free belt slide module

Environment	Driven Mode	Specification	Reducer Mechanism	Motor Output (w)	Width(mm)	Repeatability(mm)	Belt Spec		Maximum Payload(kg)		Maximum Speed ^{*1} (mm/s)
							Belt Width(mm)	Lead(mm)	Horizontal	Vertical	
Clean Room	Timing Belt	WECB5	No	42M (Stepping Motor)	50	±0.04	9	32	10		267
				100W				40	3		800
		WECB6		57M (Stepping Motor)	65		12	40	15		333
				100W				40	3		1000
		WECB10	100W	102	15		32	10		1400	
		WECB14	200W	135	22		40	25		2000	
		WECB17	400W	170	30		40	45		2000	
		WECB22	750W	220	50		40	85		2000	

*1: The highest speed is based on the maximum servo motor's rpm (3000).
The highest speed is based on the maximum stepping motor's rpm (500).

Stroke(mm) & Maximum Speed(mm/s)																									Speed										Page
Stroke	50	300	450	600	800	900	1050	1200	1350	1500	1650	1800	1950	2100	2150	2300	2550	2600	2750	3050	3150	3300	3500	3600	3750	3900	4050								
267																													213						
800																																			
333																													219						
1000																																			
							1400																						225						
								2000																					230						
								2000																					235						
									2000																				241						



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum
Stroke **800mm**

Maximum
Speed 267mm/s

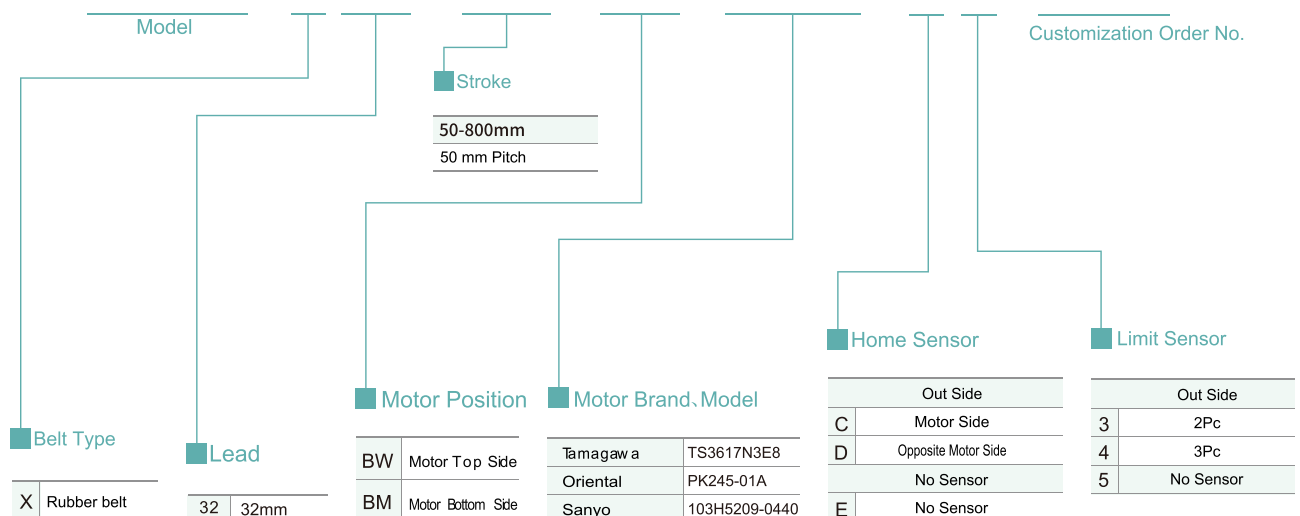
Maximum
Static Torque 0.32 Nm.

Belt Width 9mm

Linear Guide **24X8.5
1 piece**

Ordering Method

WECB5- X 32 - 50 - BM - 42M - C 4 - 0001



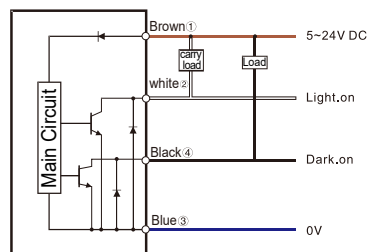
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		32
	Maximum Speed (mm/s) ※1		267
	Maximum Payload	Horizontal (kg)	10
		Vertical (kg)	
	Rated Thrust (N)		42
Parts	Stroke Pitch (mm)		50-800mm / 50 50 mm Pitch
	Maximum Static Torque (N.m.)		0.32
	Belt Width		9
	High Rigidity Linear Guide (mm)		W24XH8.5
	Home Sensor	Outside	672 (NPN/ PNP)

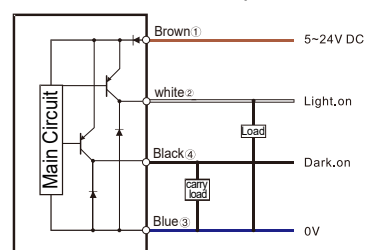
※1 Acceleration and deceleration value is set 0.4 second

Sensor Layout

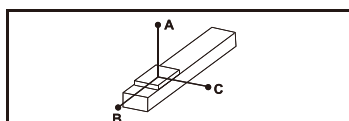
DC four-wire NPN output



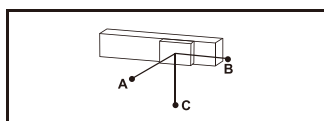
DC four-wire PNP output



Allowable Overhang



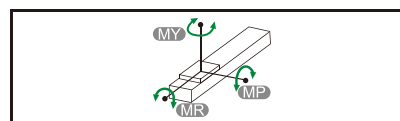
Wall Installation	A	B	C
5kg	323	23	52
7kg	208	15	34
10kg	121	9	20



Wall Installation	A	B	C
5kg	47	21	299
7kg	31	13	191
10kg	18	8	109

- The torque value in the chart indicate the center of gravity.
- Operation life is 5,000km when the product is using under the specified conditions.
- Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit :N.m)

MY	16
MP	20
MR	19

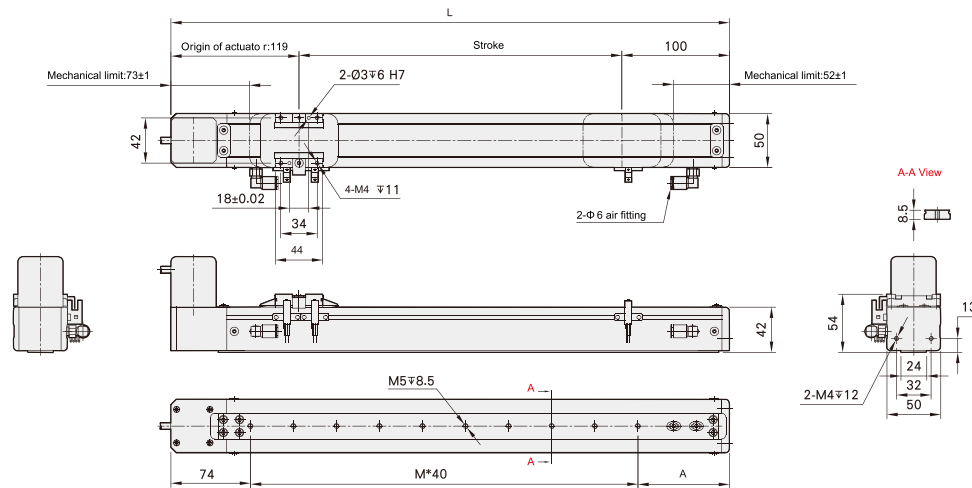
Suitable Motor Brand

Brand	Brake	AC-Voltage	Stepper Motor Model	DriverModel
Tamagawa	0.32	DC24V	Tow phrase-TS3617N3E8	CD-2D34M Resolution200/400/800/1600
Oriental	0.32	Single phrase100V	Tow phrase-PK245-01A	UDK2112 Resolution200/400/800/1600/3200
Sanyo	0.32	DC24V	Tow phrase-103H5209-0440	US1D200P10 Resolution200/400/800/1600/3200

Motor Top Side / Motor Bottom Side

BW Motor Top Side

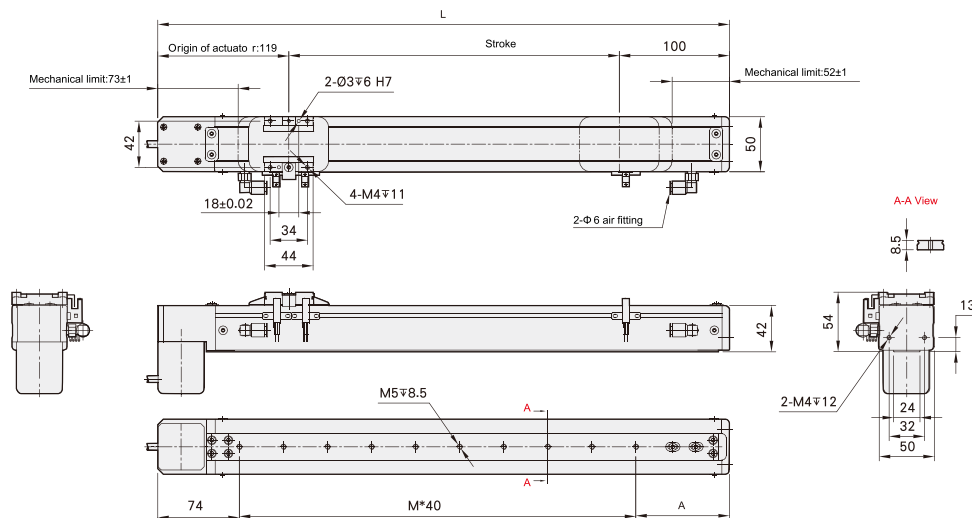
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum Stroke 800mm

Maximum Speed 2000mm/ s

Motor Output 100W

Belt Width 9mm

Linear Guide 24X8.5
1 piece

Ordering Method

WECEB5 - X 40 - 50 - BM - M10 - C 4 - 0001

Model

Stroke

50-800mm
50 mm Pitch

Customization Order No.

Belt Type

X	Rubber belt
---	-------------

Lead

40	40mm
----	------

Motor Position

BW	Motor Top Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	100W
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

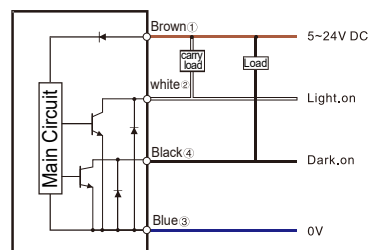
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s) ※1		800
	Maximum Payload	Horizontal (kg)	3
		Vertical (kg)	
	Rated Thrust (N)		42
	Stroke Pitch (mm) ※2		50-800mm / 50 50 mm Pitch
Parts	AC Servo Motor Output (W)		100
	Belt Width		9
	High Rigidity Linear Guide (mm)		W24XH8.5
	Home Sensor	Outside	672 (NPN/ PNP)

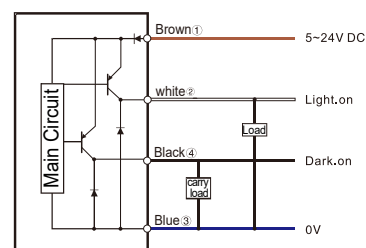
※ Acceleration and deacceleration value is set 0.4 second

Sensor Layout

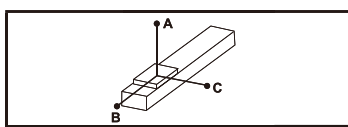
DC four-wire NPN output



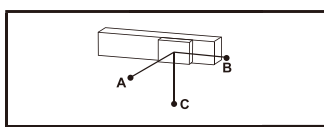
DC four-wire PNP output



Allowable Overhang



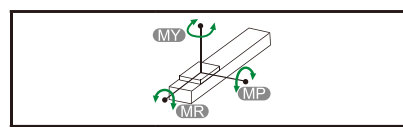
Wall Installation	A	B	C
2kg	323	61	112
3kg	209	39	72



Wall Installation	A	B	C
2kg	105	57	303
3kg	67	36	195

- The torque value in the chart indicate the center of gravity.
- Operation life is 5,000km when the product is using under the specified conditions.
- Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit :N.m)

MY	16
MP	20
MR	19

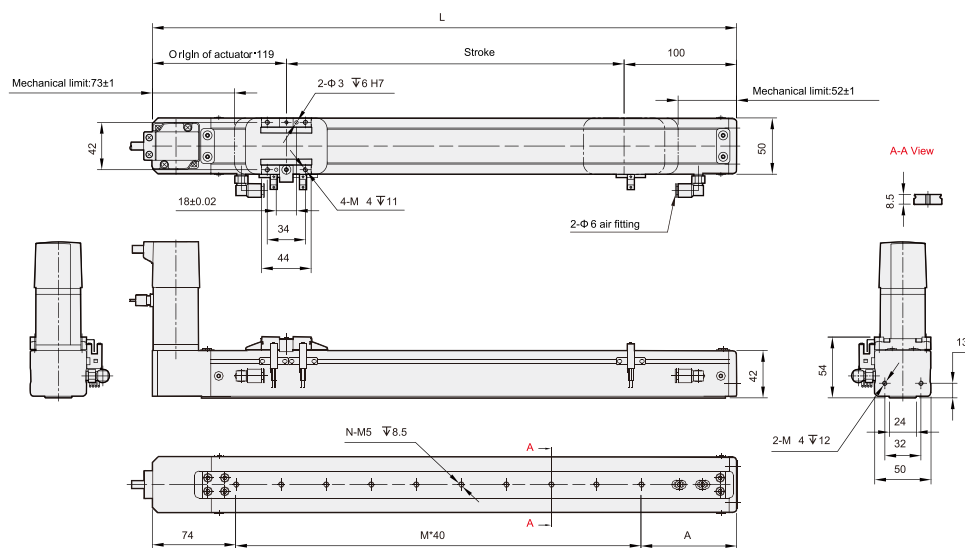
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Top Side / Motor Bottom Side

BW Motor Top Side

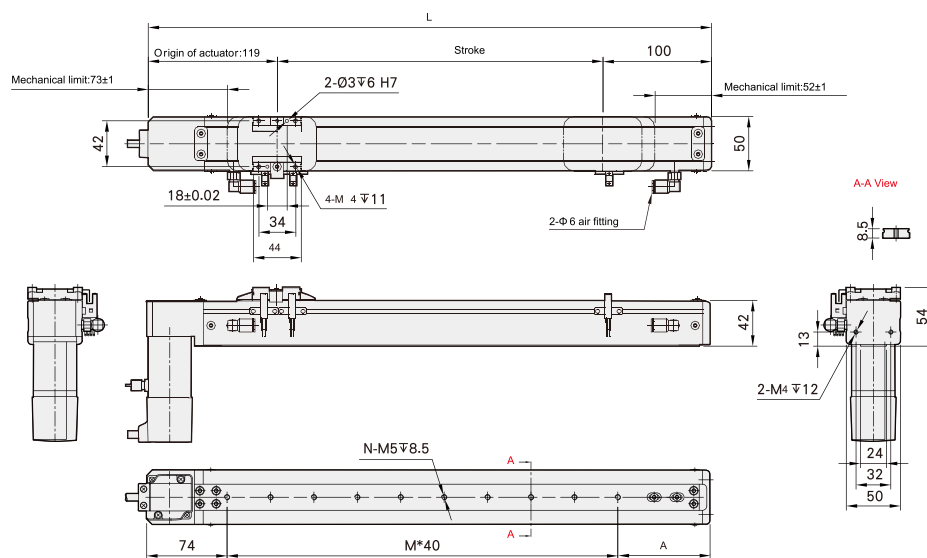
Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6

BM Motor Bottom Side

Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	269	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
A	75	85	95	65	75	85	95	65	75	85	95	65	75	85	95	65
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	4	5	6	8	9	10	11	13	14	15	16	18	19	20	21	23
KG	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum
Stroke 800mm

Maximum
Speed 333mm/s

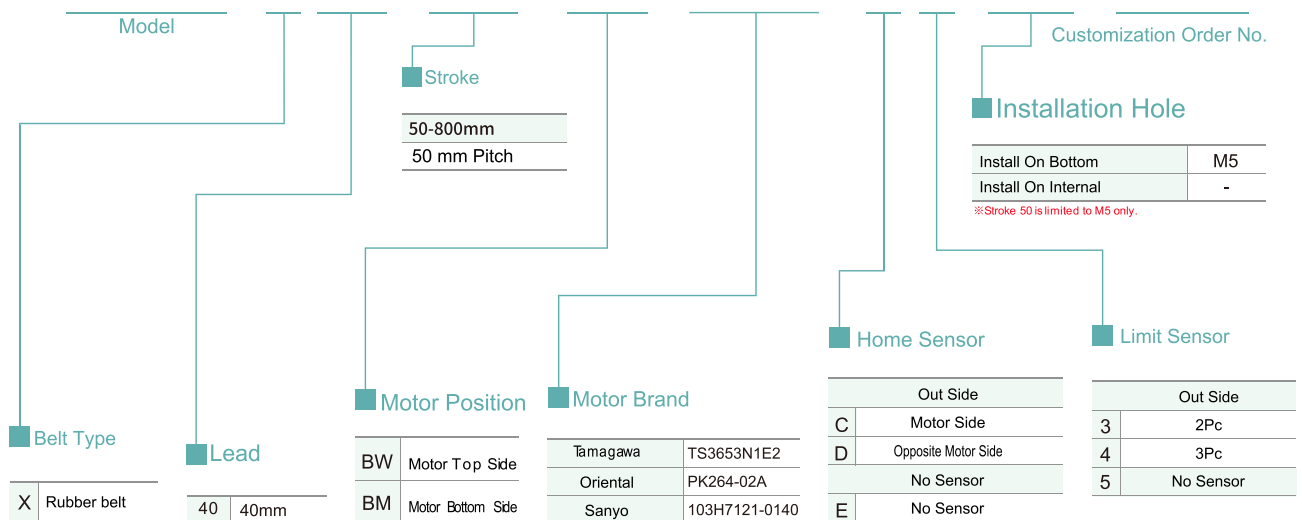
Maximum
Static Torque 0.39 Nm.

Belt Width 12mm

Linear Guide **42X9.5**
1 piece

Ordering Method

WECEB6 - X 40 - 50 - BM - 57M - C 4 - M5 - 0001



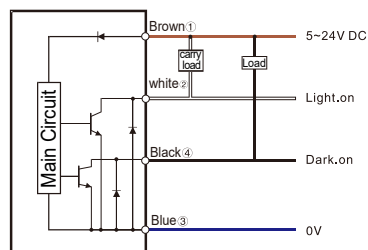
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s) ※1		333
	Maximum Payload	Horizontal (kg)	15
		Vertical (kg)	
	Rated Thrust (N)		51
Parts	Stroke Pitch (mm)		50-800mm / 50 50 mm Pitch
	Maximum Static Torque (N.m.)		0.39
	Belt Width		12
	High Rigidity Linear Guide (mm)		W42XH9.5
Home Sensor	Outside		672 (NPN/ PNP)

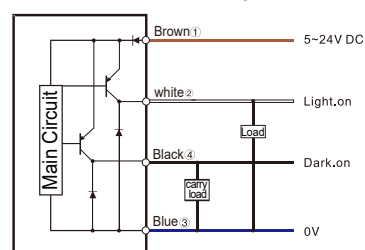
※1Acceleration and deceleration value is set 0.4 second.

Sensor Layout

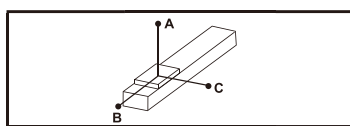
DC four-wire NPN output



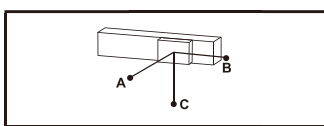
DC four-wire PNP output



Allowable Overhang

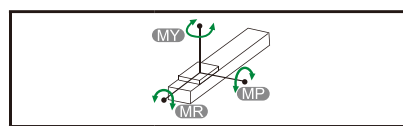


	A	B	C
5kg	620	65	165
10kg	253	29	73
15kg	126	16	42



	A	B	C
5kg	151	59	582
10kg	66	26	532
15kg	38	15	111

Static Loading Moment



(Unit:Nmm)

MY	70
MP	80
MR	75

- *The torque value in the chart indicate the center of gravity.
- *Operation life is 5,000km when the product is using under the specified conditions.
- *Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

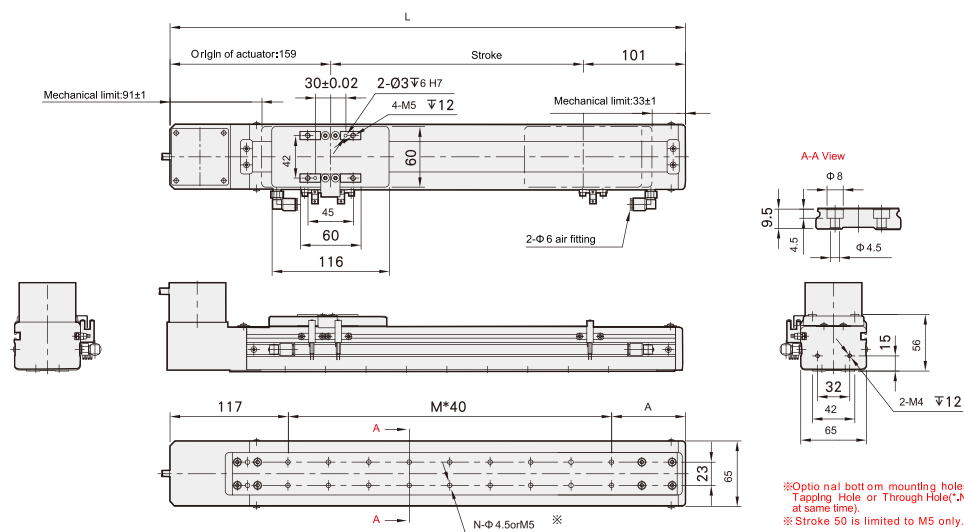
Suitable Motor Brand

Brand	Brake	AC-Voltage	Motor Model	Driver Model
Tamagawa	0.39	DC24V	Tow phrase-TS3653N1E2	CD-2D34M Resolution200/400/800/1600
Oriental	0.39	DC24V	Tow phrase-PK564-02A	CMD2120P Resolution200/400/800/1600/3200
Sanyo	0.39	DC24V	Tow phrase-103H7121-0140	US1D200P10 Resolution200/400/800/1600/3200

Motor Top Side / Motor Bottom Side

BW Motor Top Side

Unit : mm

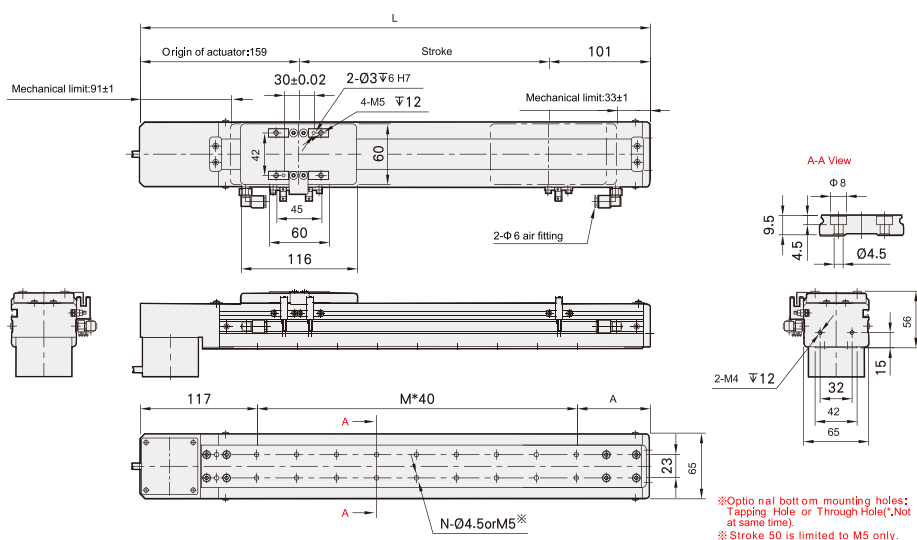


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.4	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

BM Motor Bottom Side

Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.4	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **2000mm/ s**

Motor Output **100W**

Belt Width **12mm**

Linear Guide **42X9.5
1 piece**

Ordering Method

WECB6- X 40 - 50 - BM - M10 - C 4 - M5 - 0001

Model

Stroke

50-800mm
50 mm Pitch

Customization Order No.

Installation Hole

Install On Bottom	M5
Install On Internal	-

*Stroke 50 is limited to M5 only.

Home Sensor

Limit Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Belt Type

X	Rubber belt
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Lead

40	40mm
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Motor Position

BW	Motor Top Side
BM	Motor Bottom Side

Motor Brand

M	Mitsubishi	10	100W
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	-

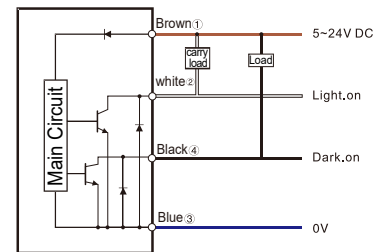
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s)※1		1000
	Maximum Payload	Horizontal (kg)	3
		Vertical (kg)	
	Rated Thrust (N)		42
	Stroke Pitch (mm)		50-800mm / 50 50 mm Pitch
Parts	AC Servo Motor Output (W)		100
	Belt Width		12
	High Rigidity Linear Guide (mm)		W42XH9.5
	Home Sensor	Outside	672 (NPN/ PNP)

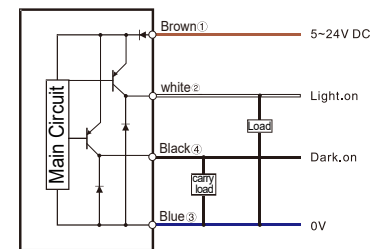
※ Acceleration and deceleration value is set 0.4 second

Sensor Layout

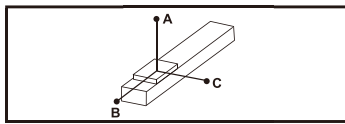
DC four-wire NPN output



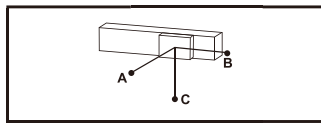
DC four-wire PNP output



Allowable Overhang



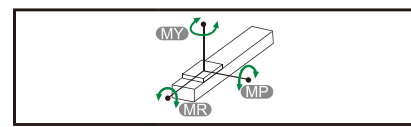
Wall Installation	A	B	C
2kg	520	150	254
3kg	340	97	165



Wall Installation	A	B	C
2kg	238	140	488
3kg	155	91	319

- * The torque value in the chart indicate the center of gravity.
- * Operation life is 5,000km when the product is using under the specified conditions.
- * Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit :N.m)

MY	70
MP	80
MR	75

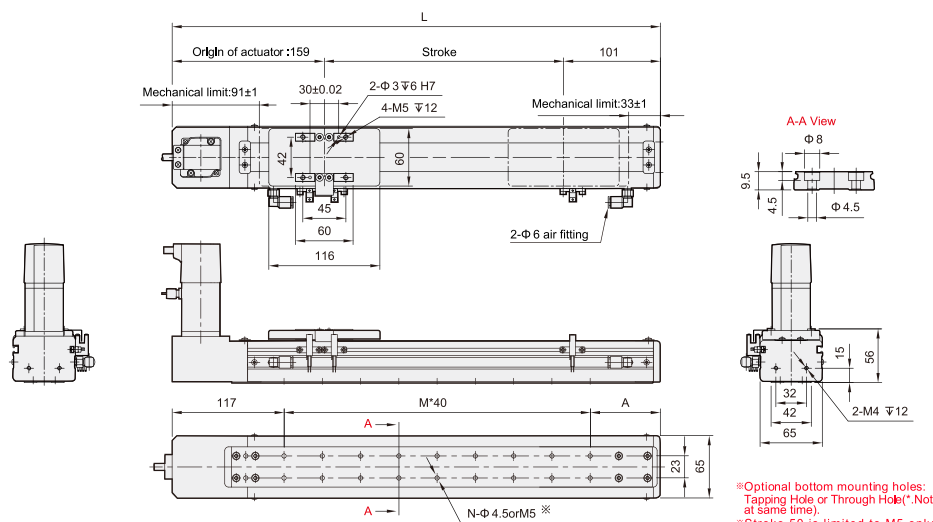
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Top Side / Motor Bottom Side

BW Motor Top Side

Unit: mm

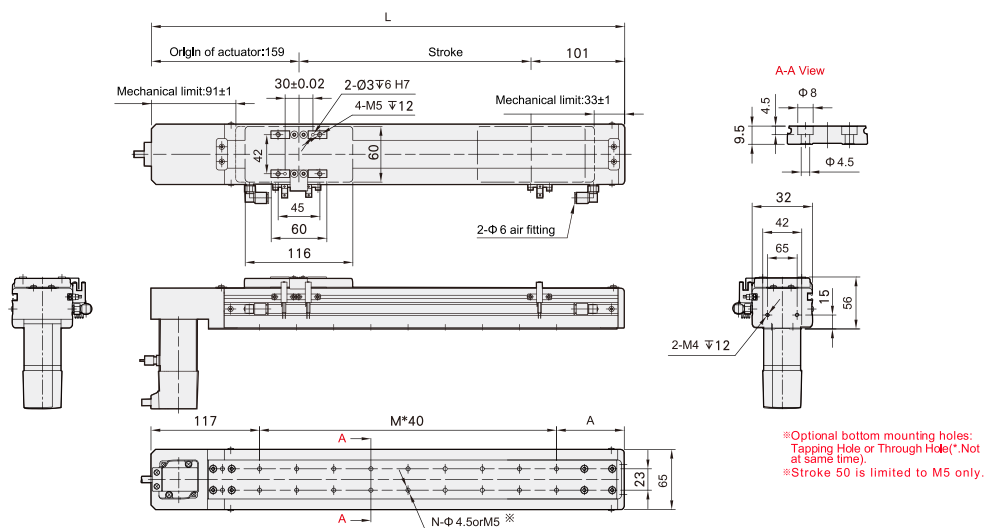


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.4	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

※Optional bottom mounting holes:
Tapping Hole or Through Hole(*. Not
at same time).
※Stroke 50 is limited to M5 only.

BM Motor Bottom Side

Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060
A	73	83	93	63	73	83	93	63	73	83	93	63	73	83	93	63
M	3	4	5	7	8	9	10	12	13	14	15	17	18	19	20	22
N	8	10	12	16	18	20	22	26	28	30	32	36	38	40	42	46
KG	2.4	2.5	2.6	2.8	3	3.3	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	4.9

※Optional bottom mounting holes:
Tapping Hole or Through Hole(*. Not
at same time).
※Stroke 50 is limited to M5 only.



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum
Stroke 2550mm

Maximum
Speed 1600mm/s

Motor Output 100W

Belt Width 15mm

Linear Guide **20X18**
-1 piece

Ordering Method

WECB10- L 32 - 50 - L - M10 - C 4 - 0001

Model

Customization Order No.

Stroke

50-2550mm
50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	100W
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

Limit Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Belt Type

L	Clean belt
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Lead

32	32mm
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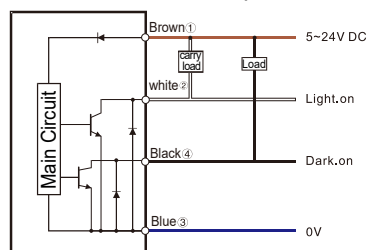
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		32
	Maximum Speed (mm/s) ※1		1400
	Maximum Payload	Horizontal (kg)	10
		Vertical (kg)	
	Rated Thrust (N)		61
Parts	Stroke Pitch (mm)		50-2550mm / 50 50 mm Pitch
	AC Servo Motor Output (W)		100
	Belt Width		15
	High Rigidity Linear Guide (mm)		W20XH18
	Home Sensor	Outside	672 (NPN/ PNP)

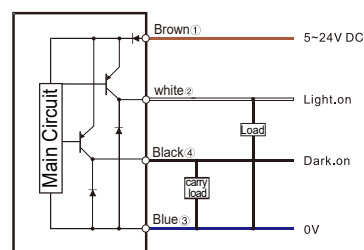
※1 Acceleration and deceleration value is set 0.4 second

Sensor Layout

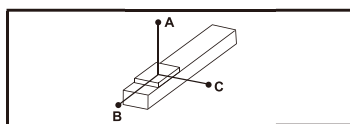
DC four-wire NPN output



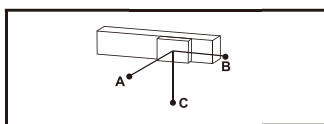
DC four-wire PNP output



Allowable Overhang



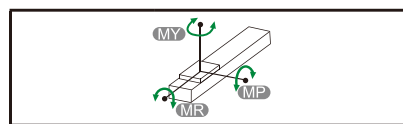
Wall Installation	A	B	C
5kg	495	152	128
8kg	301	91	77
10kg	236	71	60



Wall Installation	A	B	C
4kg	162	192	625
7kg	89	106	347
10kg	60	71	236

- * The torque value in the chart indicate the center of gravity.
- * Operation life is 10 ,000km when the product is using under the specified conditions.
- * The steel stripe cover may deformed when the actuator length is over 1000mm.
- Horizontal application is recommend.
- * Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(Unit :N.m)

MY	110
MP	110
MR	120

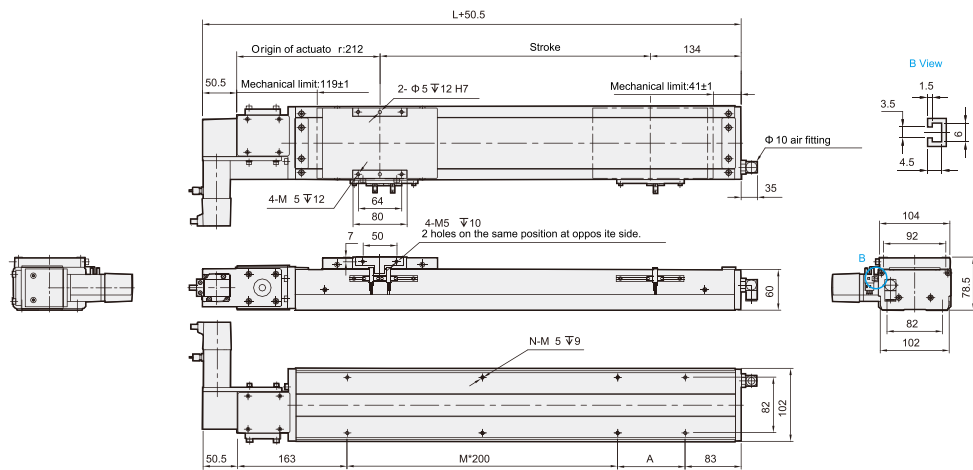
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

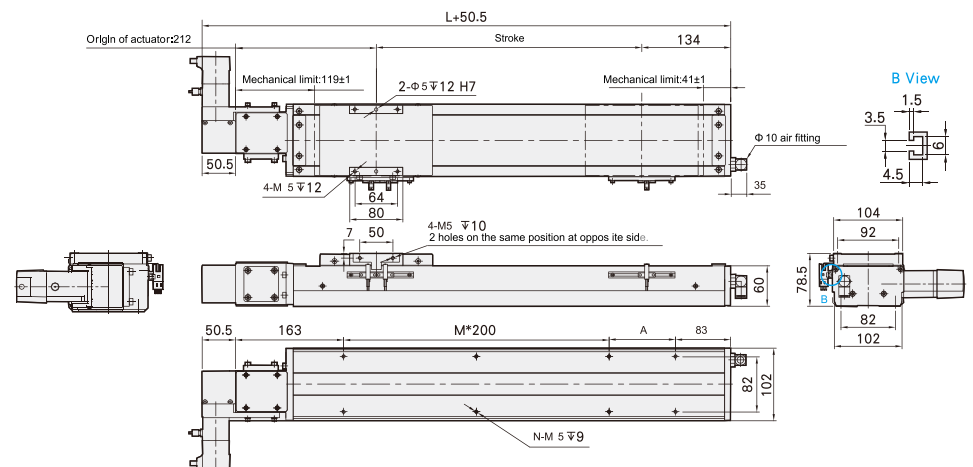


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

R Motor Right Side

Unit : mm



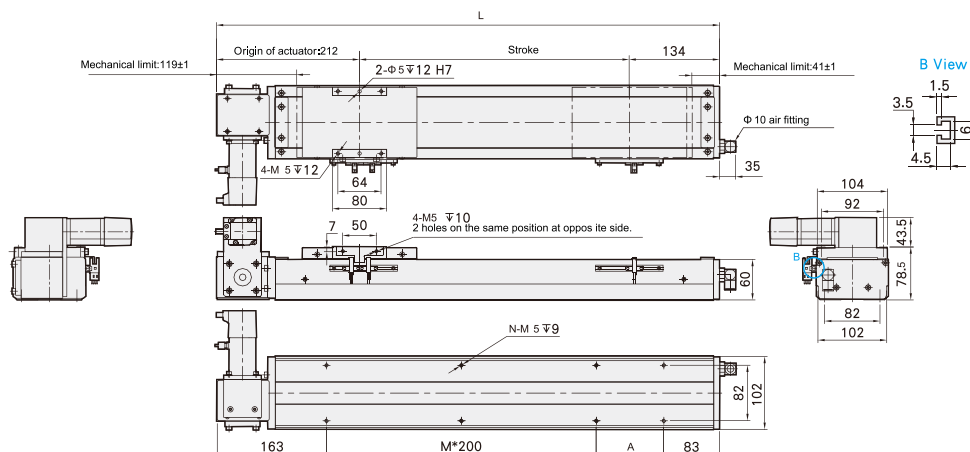
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

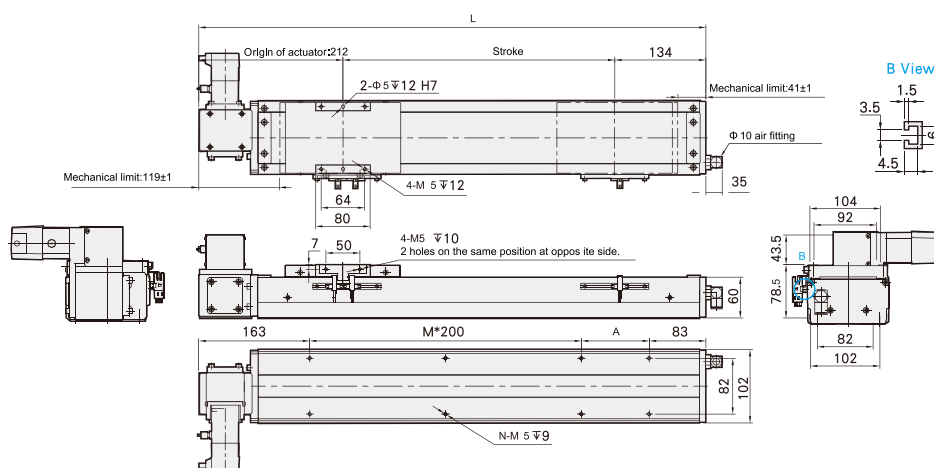


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

RU Motor Right Upper Side

Unit : mm



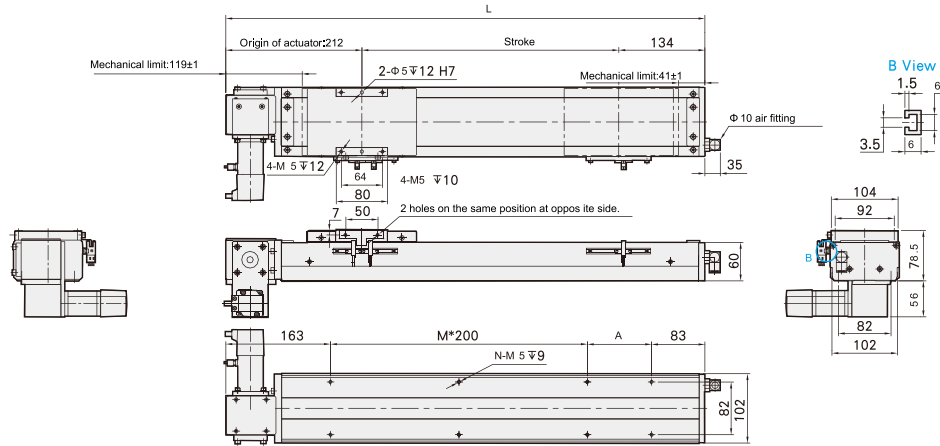
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

Motor Left Side / Motor Right Side

LD Motor Left Lower Side

Unit : mm

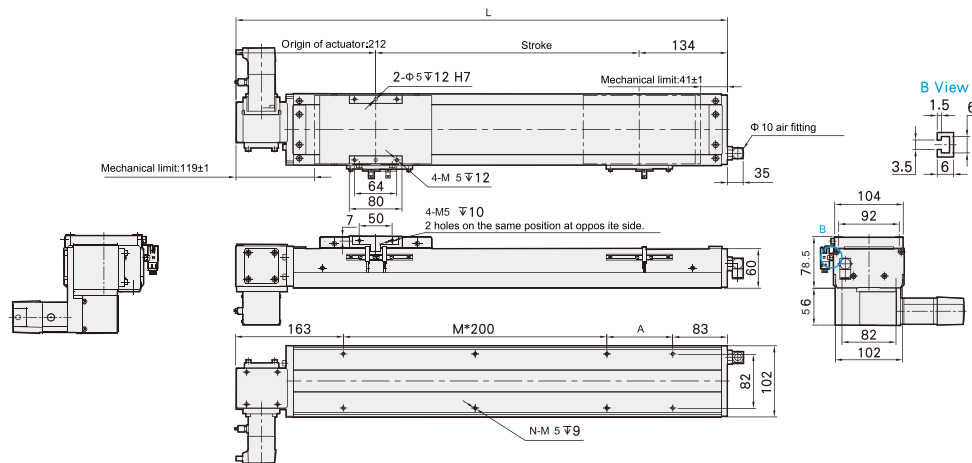


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

RD Motor Right Lower Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	396	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	7.87	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1696	1746	1796	1846	1896	1946	1996	2046	2096	2146	2196	2246	2296	2346	2396	2446	2496	2546	2596	2646	2696	2746	2796	2846	2896
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	20.12	20.54	20.96	21.38	21.8	22.22	22.4	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94



The picture is just for the reference, Please check the the actual dimensions on the drawing.

Maximum Stroke **2550mm**

Maximum Speed **4000mm/s**

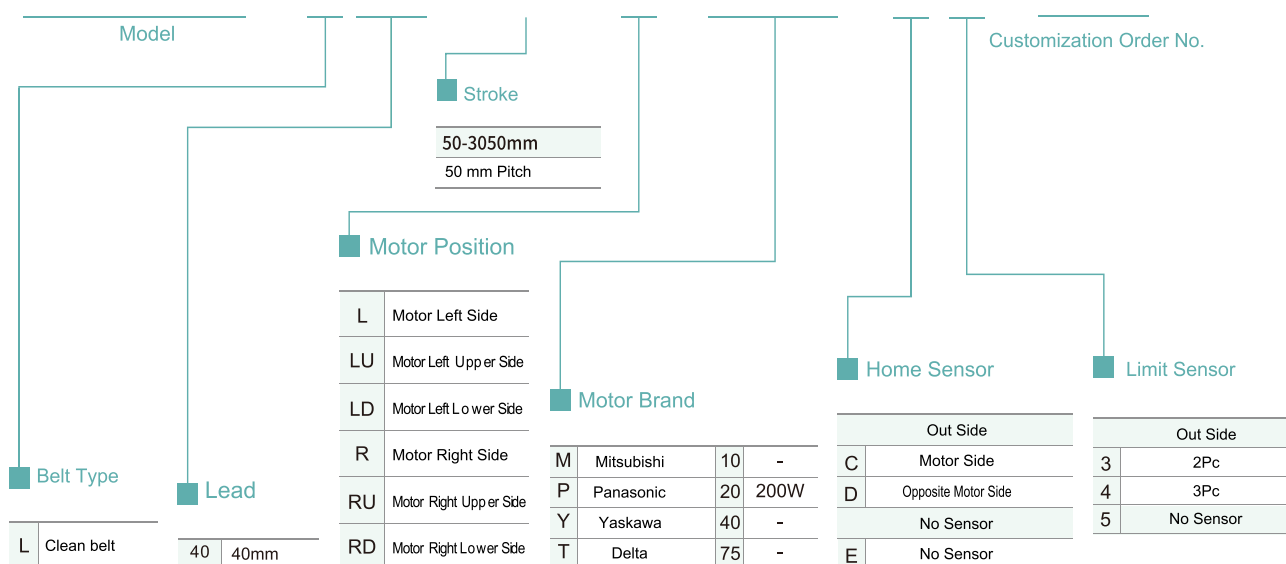
Motor Output **200W**

Belt Width **16mm**

Linear Guide **15x12.5
-2piece**

Ordering Method

WECB12- L 40- 100- L - P20 - C 4- 0001

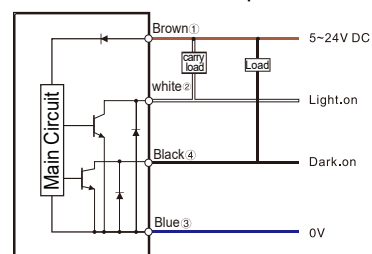


Specification

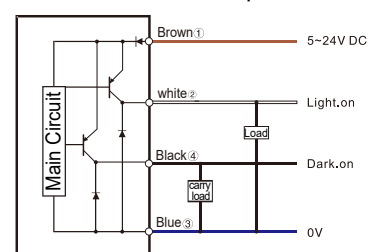
Spec	Repeatability		±0.04
	Lead		40
	Maximum Speed		2000
	Maximum Payload	Horizontal	22
		Vertical	
	Rated Thrust		105
Parts	Stroke Pitch		100-2550mm/50pitch
	AC Servo Motor Output		200W
	Belt Width		16
	High Rigidity Linear Guide		15×12.5
	Home Sensor	Outside	6Z (NPN/NP)

Sensor Layout

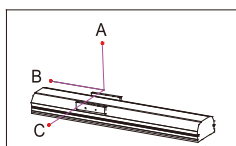
DC four-wire NPN output



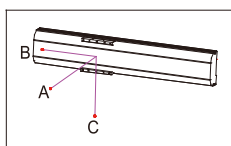
DC four-wire PNP output



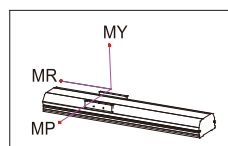
N.m Allowable Overhang



(Unit :mm)



(Unit :mm)



(Unit :N.m)

Horizontal Installation	A	B	C	Wall Installation	A	B	C
5kg	905	325	285	5kg	285	325	905
13kg	375	145	125	13kg	125	145	375
22kg	205	75	60	22kg	60	75	205

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.

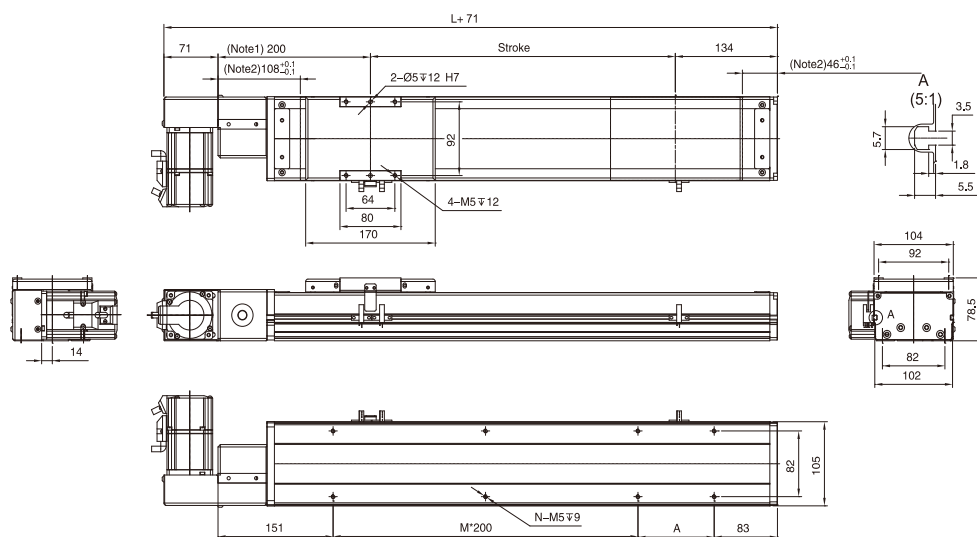
Static Loading Moment	
MY	150
MP	150
MR	130

Suitable Motor Brand

Brand	Mark	Brake	WatpWatpw W	AC-Voltage AC-V	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MSMD022G1U	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B

L Motor Left Side

Unit : mm

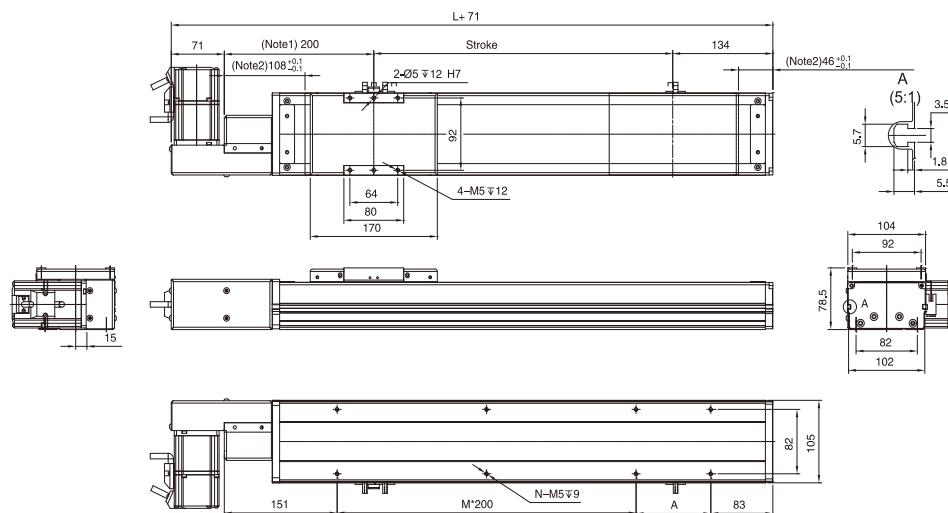


Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434	2484	2534	2584	2634	2684	2734	2784	2834	2884
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

R Motor Right Side

Unit : mm



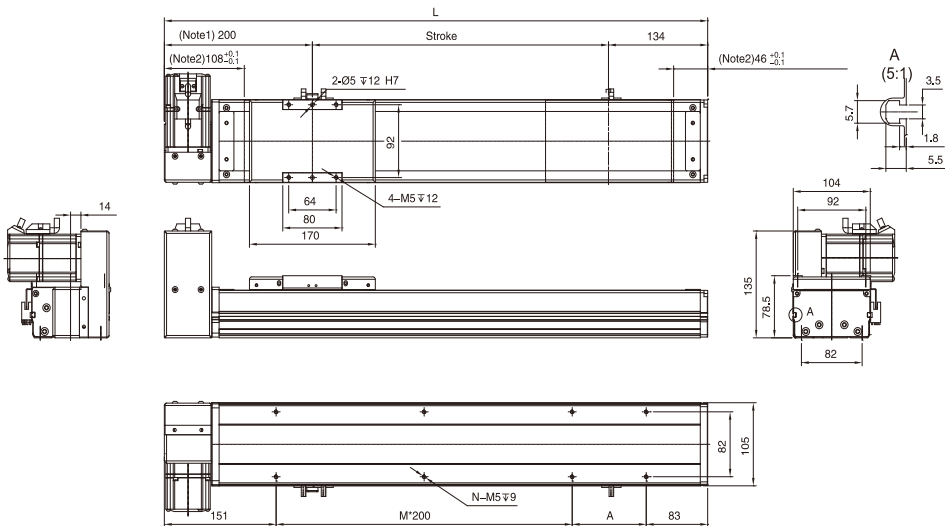
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

Stroke	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434	2484	2534	2584	2634	2684	2734	2784	2834	2884
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

Module

Stage	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

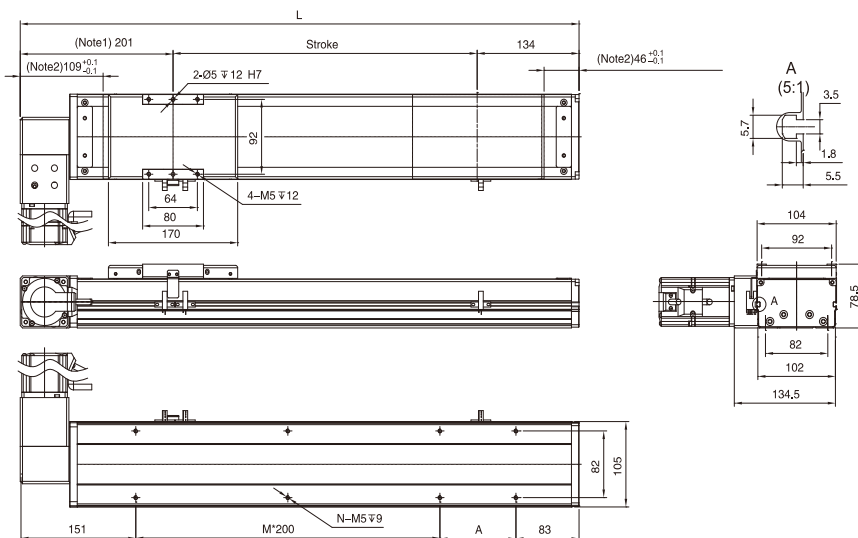
Stage	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434	2484	2534	2584	2634	2684	2734	2784	2834	2884
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	
M	7	7	7	7	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13
N	18	18	18	18	20	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94



Stake	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44

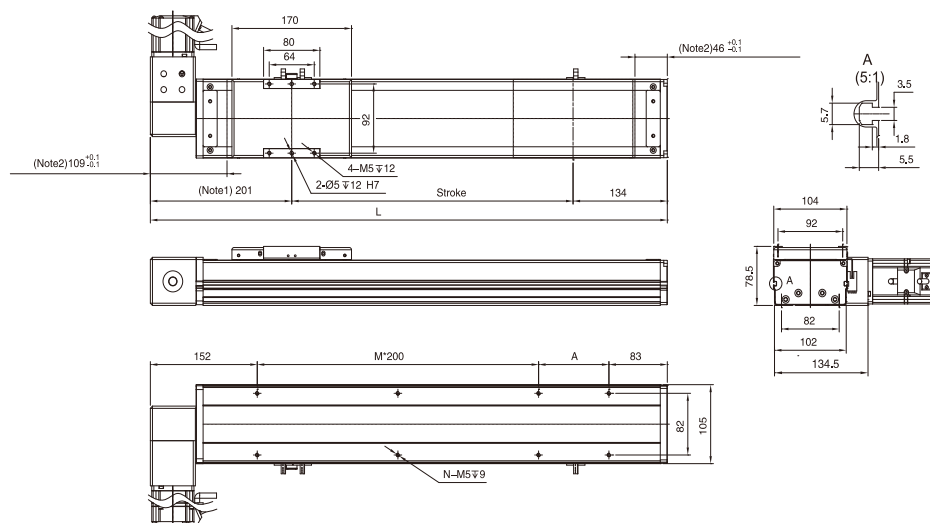
Stake	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434	2484	2534	2584	2634	2684	2734	2784	2834	2884
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	20	22	22	22	22	23	24	24	24	24	26	26	26	26	28	28	28	28
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

Unit : mm



State	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44
State	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550
L	1685	1735	1785	1835	1885	1935	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	18	20	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

Unit : mm



Series	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	16
KG	8.3	8.73	9.15	9.57	10	10.42	10.84	11.26	11.69	12.11	12.53	12.96	13.38	13.8	14.23	14.65	15.07	15.49	15.92	16.34	16.76	17.18	17.6	18.02	18.44
Strides	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600
L	1685	1735	1785	1835	1885	1935	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13
N	18	18	18	18	20	20	20	22	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30
KG	18.86	19.28	19.7	19.12	20.54	20.96	21.38	21.8	22.22	22.64	23.06	23.48	23.9	24.32	24.74	25.16	25.58	26	26.42	26.84	27.26	27.68	28.1	28.52	28.94

MEMO



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 3050mm

Maximum Speed 2000mm/s

Motor Output 200W

Belt Width 22mm

Linear Guide 24XB.5 -2 piece

Ordering Method

WECB14 - L 40 - 50 - L - M20 - C 4 - 0001

Model

Customization Order No.

Stroke

50-3050mm
50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	200W
Y	Yaskawa	40	-
T	Delta	75	-

Home Sensor

Limit Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Belt Type

L	Clean belt
---	------------

Lead

40	40mm
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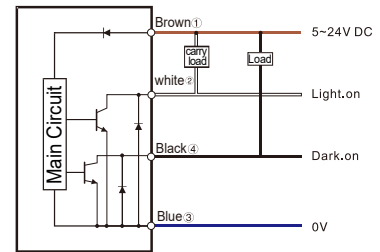
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s) ※1		2000
	Maximum Payload	Horizontal (kg)	25
		Vertical (kg)	
	Rated Thrust (N)		100
	Stroke Pitch (mm)		50-3050mm / 50 間隔 50 mm Pitch
Parts	AC Servo Motor Output (W)		200
	Belt Width		22
	High Rigidity Linear Guide (mm)		W15XH12.5
	Home Sensor	Outside	6Z (NPN/PP)

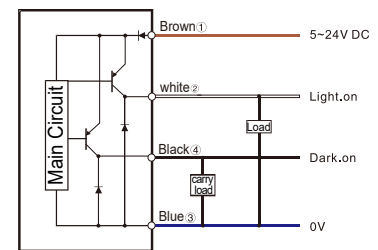
※1 Acceleration and deceleration value is set 0.4 second

Sensor Layout

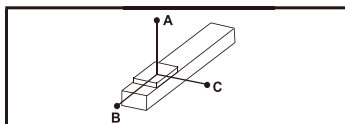
DC four-wire NPN output



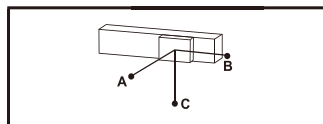
DC four-wire PNP output



Allowable Overhang

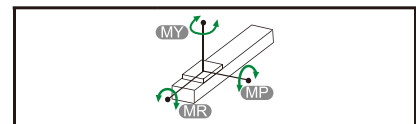


Wall Installation	A	B	C
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197



Wall Installation	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

Static Loading Moment



(Unit :N.m)

MY	551
MP	552
MR	485

- *The torque value in the chart indicate the center of gravity.
- *Operation life is 10,000km when the product is using under the specified conditions.
- *The steel stripe cover may deformed when the actuator length is over 1000mm.
- Horizontal application is recommend.
- *Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

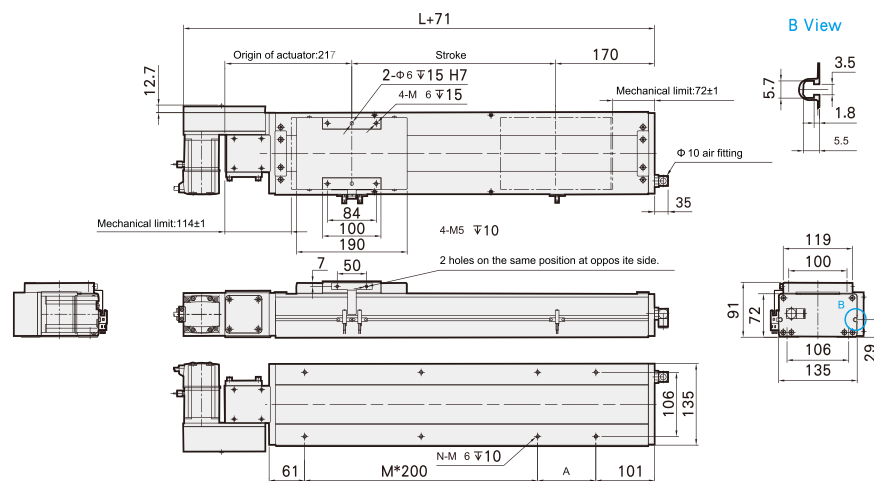
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
Delta	T	No Brake (Horizontal Type)	220	220	ECMA-C20602ES	ASD-B20221-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

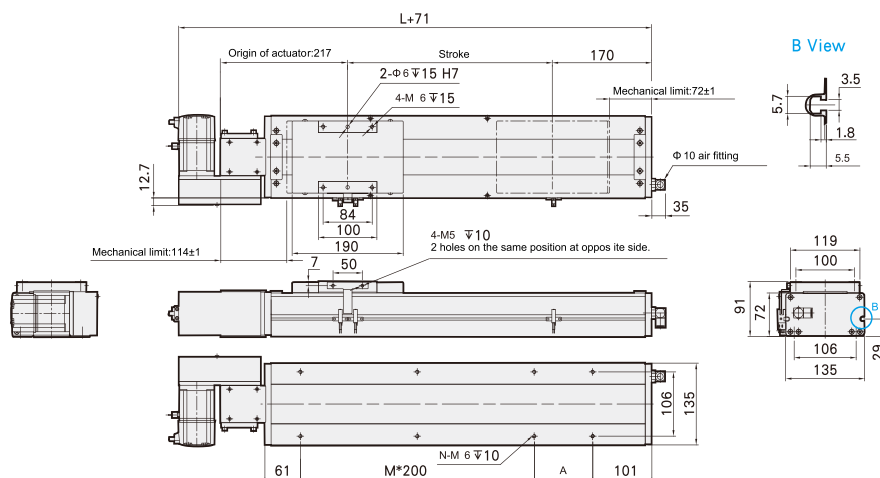


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	20	20	
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

R Motor Right Side

Unit : mm



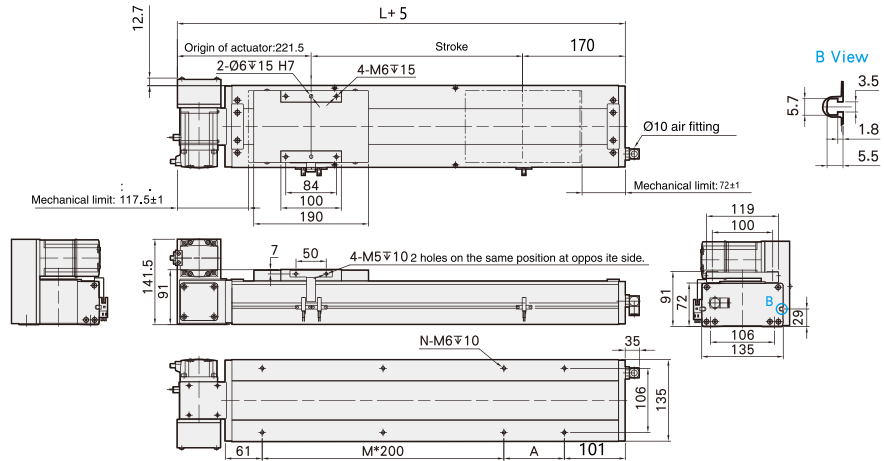
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L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

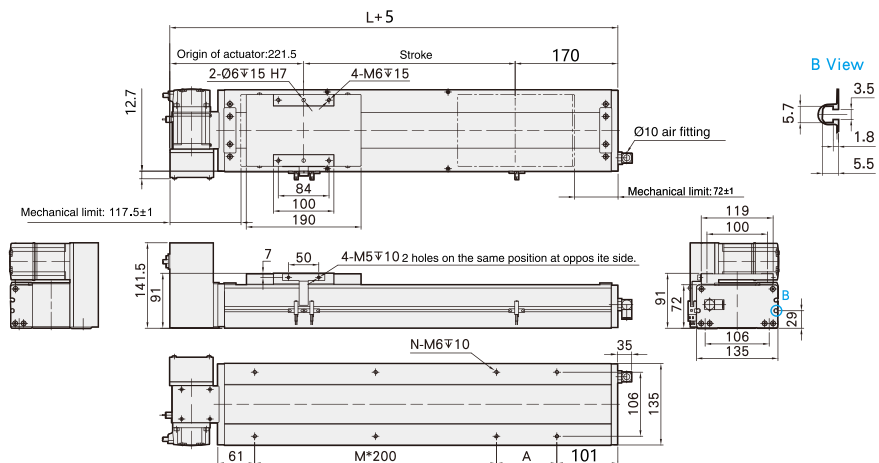


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

RU Motor Right Upper Side

Unit : mm



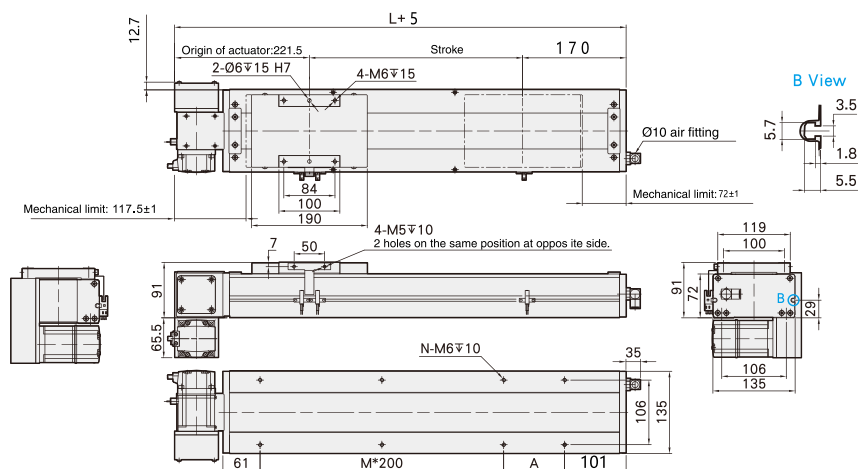
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	19	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

Unit : mm

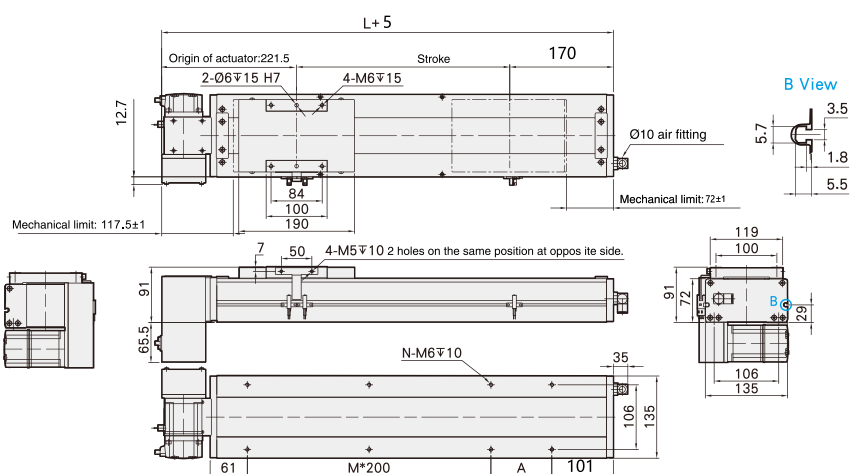


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	20	20	
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

RD Motor Right Lower Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587	1637	1687	1737	1787	1837	1887	1937
A	200	50	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1987	2037	2087	2137	2187	2237	2287	2337	2387	2437	2487	2537	2587	2637	2687	2737	2787	2837	2887	2937	2987	3037	3087	3137	3187	3237	3287	3337	3387	3437
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 4050mm

Maximum
Speed 2000mm/s

Motor Output 400W

Belt Width 30mm

Linear Guide 20X15-2支

Ordering Method

WECB17- L 40 - 50 - L - M 40 - C 4 - 0001

Model

Customization Order No.

Stroke

50-4050mm
50 mm Pitch

Motor Position

L	Motor On Left Side
LU	Motor On Left Upper Side
LD	Motor On Left Lower Side
R	Motor On Right Side
RU	Motor On Right Upper Side
RD	Motor On Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	-
Y	Yaskawa	40	400W
T	Delta	75	-

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Belt Type

L	Clean belt
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Lead

40	40mm
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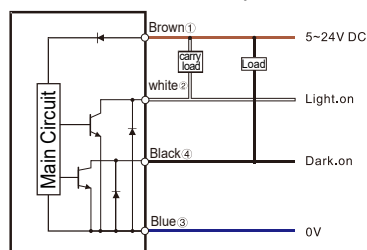
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s) ※1		2000
	Maximum Payload	Horizontal (kg)	45
		Vertical (kg)	
	Rated Thrust (N)		204
	Stroke Pitch (mm)		50-4050mm / 50 50 mm Pitch
Parts	AC Servo Motor Output (W)		400
	Belt Width		30
	High Rigidity Linear Guide (mm)		W20XH15
	Home Sensor	Outside	672 (NPN/ PNP)

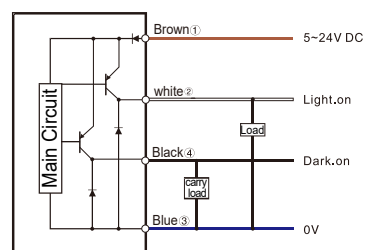
※1 Acceleration and deceleration value is set 0.4 second

Sensor Layout

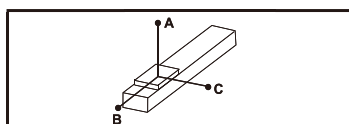
DC four-wire NPN output



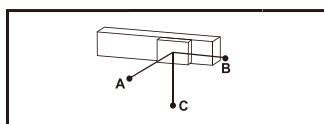
DC four-wire PNP output



Allowable Overhang

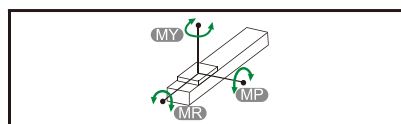


Wall Installation	A	B	C
10kg	2942	1133	1033
20kg	1430	547	498
30kg	926	350	320
45kg	588	219	201



Wall Installation	A	B	C
15kg	676	742	1933
25kg	390	428	1127
35kg	269	294	781
45kg	201	219	588

Static Loading Moment



(Unit :N.m)

MY	1032
MP	1034
MR	908

- *The torque value in the chart indicate the center of gravity.
- *Operation life is 10,000km when the product is using under the specified conditions.
- *The steel stripe cover may deformed when the actuator length is over 1000mm.
- Horizontal application is recommend.
- *Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

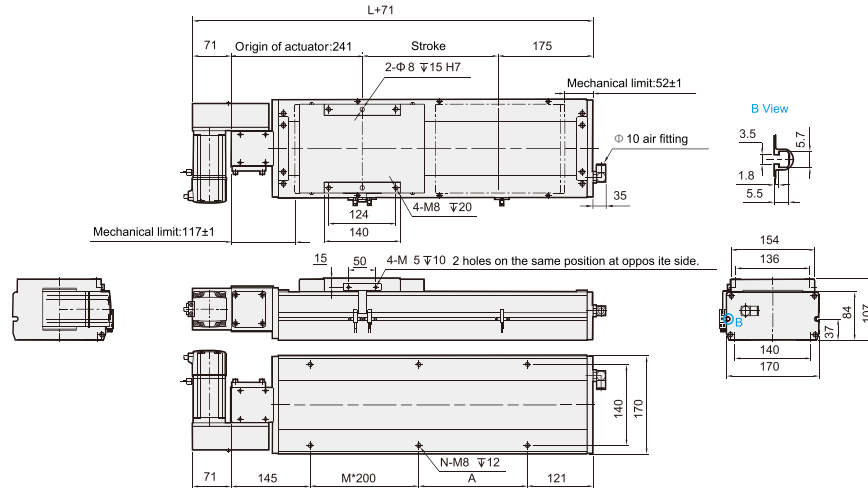
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

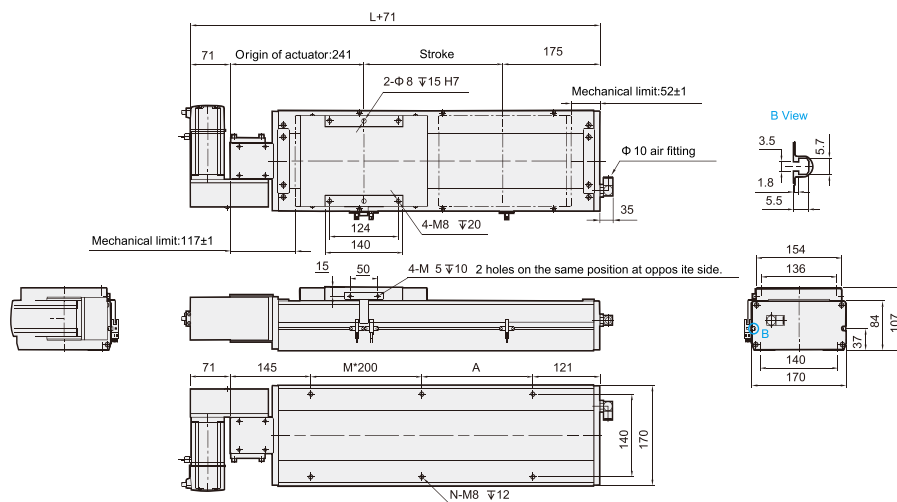


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

R Motor Right Side

Unit : mm



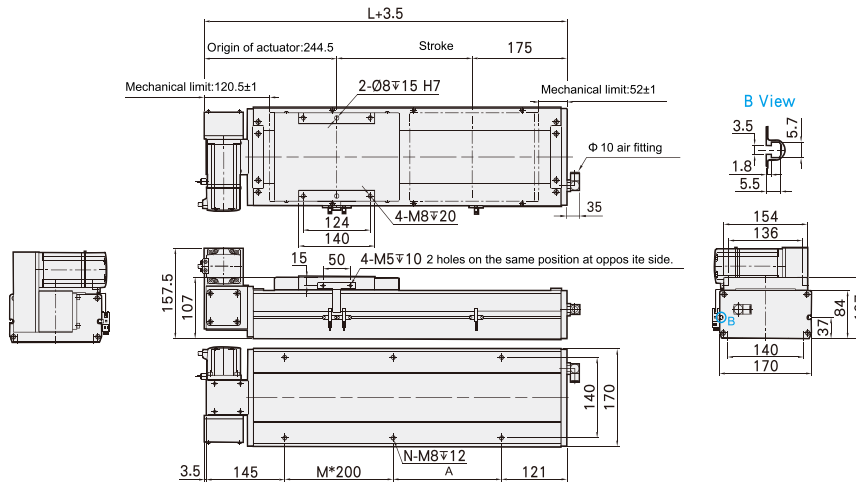
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

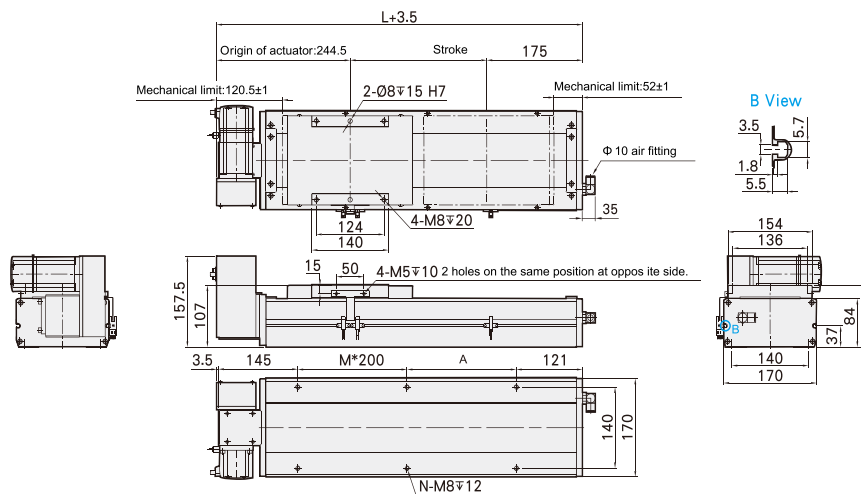


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

RU Motor Right Upper Side

Unit : mm



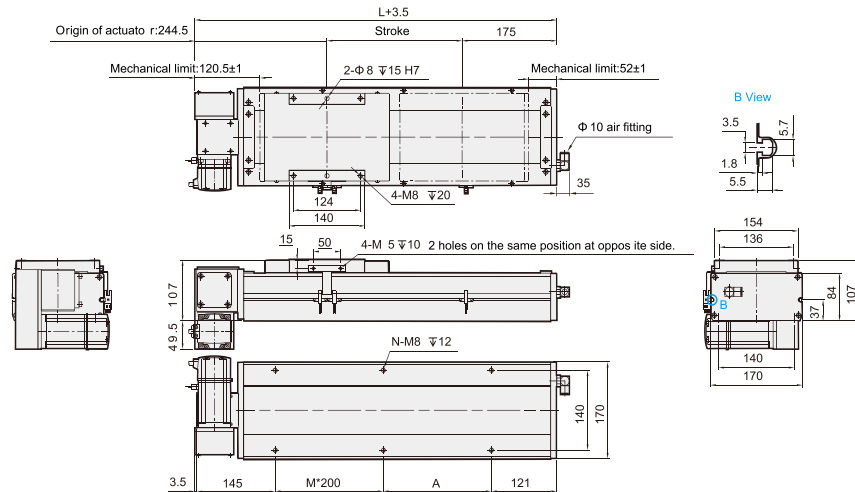
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

Unit : mm

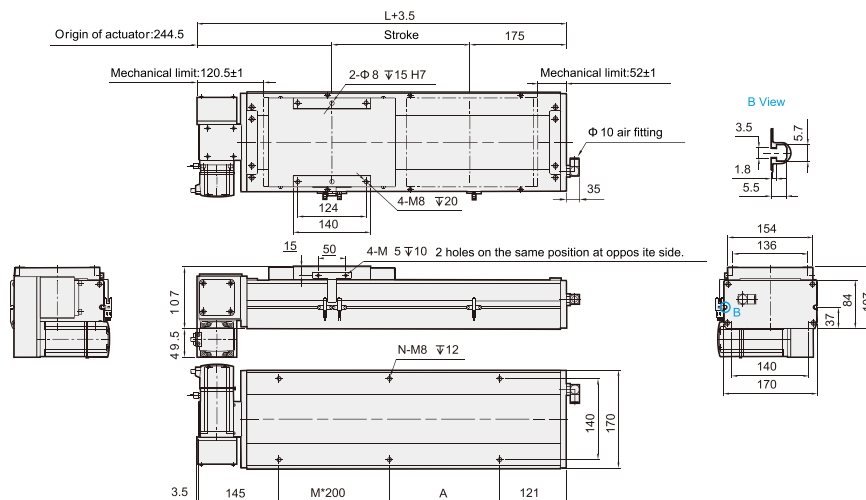


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	20	20	
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

RD Motor Right Lower Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	20	20	
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2016	2066	2116	2166	2216	2266	2316	2366	2416	2466	2516	2566	2616	2666	2716	2766	2816	2866	2916	2966	3016	3066	3116	3166	3216	3266	3316	3366	3416	3466
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

MEMO



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 3500mm

Maximum
Speed 2000mm/s

Motor Output 750W

Belt Width 50mm

Linear Guide 23X18-2支

Ordering Method

WECEB22- L 40 - 50 - L - M 75 - C 4 - 0001

Model

Customization Order No.

Stroke

50-3500mm
50間隔 50 mm Pitch

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side

Motor Brand

M	Mitsubishi	10	-
P	Panasonic	20	-
Y	Yaskawa	40	-
T	Delta	75	750W

Home Sensor

Limit Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Belt Type

L	Clean belt
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Lead

40	40mm
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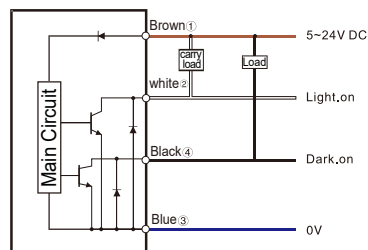
Specification

Spec	Repeatability (mm)		±0.04
	Ball Screw Lead (mm)		40
	Maximum Speed (mm/s)*1		2000
	Maximum Payload	Horizontal (kg)	85
		Vertical (kg)	
	Rated Thrust (N)		367
Parts	Stroke Pitch (mm)		50-3500mm / 50 50 mm Pitch
	AC Servo Motor Output (W)		750
	Belt Width		50
	High Rigidity Linear Guide (mm)		W23XH18
	Home Sensor	Outside	672 (NPN/ PNP)

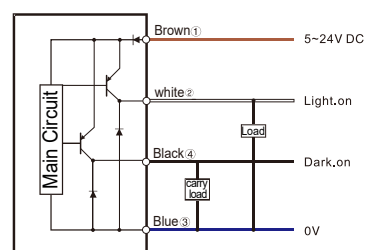
*1 Acceleration and deceleration value is set 0.4 second

Sensor Layout

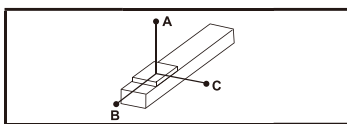
DC four-wire NPN output



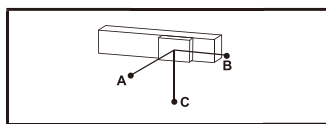
DC four-wire PNP output



Allowable Overhang



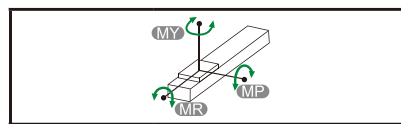
Wall Installation	A	B	C
45kg	1588	600	349
65kg	1052	328	285
85kg	768	281	206



Wall Installation	A	B	C
40kg	500	685	1805
60kg	315	430	1152
85kg	206	281	768

- *The torque value in the chart indicate the center of gravity.
- *Operation life is 10,000km when the product is using under the specified conditions.
- *The steel stripe cover may deformed when the actuator length is over 1000mm.
- Horizontal application is recommend.
- *Data information is not for ceiling-mount inverse use.
- Contact us for the details if you want to apply ceiling-mount inverse usage.

Static Loading Moment



(単位 Unit : N.m)

MY	2052
MP	2052
MR	1810

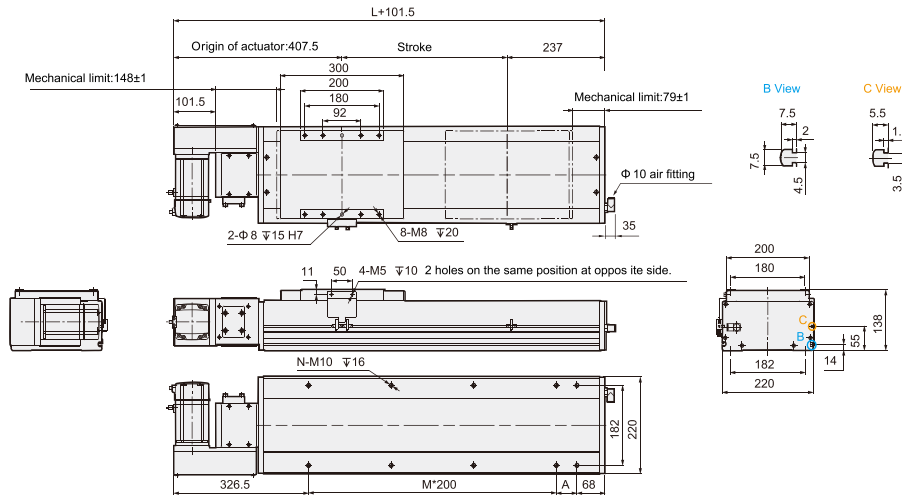
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B

Motor Left Side / Motor Right Side

L Motor Left Side

Unit : mm

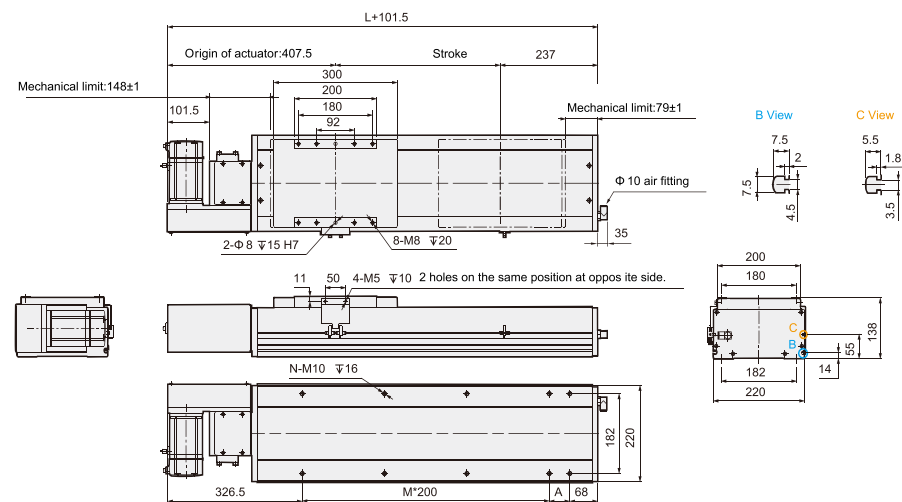


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
M	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
N	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
M	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18
N	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

R Motor Right Side

Unit : mm



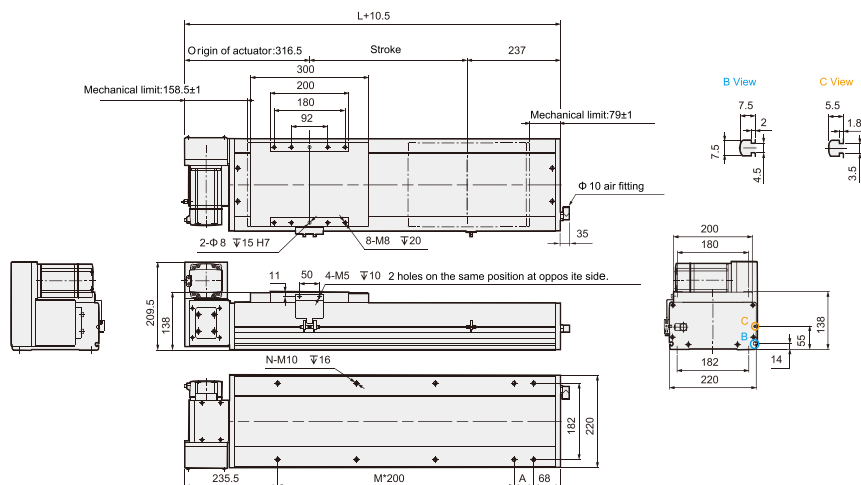
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L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
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N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
M	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18
N	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

Motor Left Upper Side / Motor Right Upper Side

LU Motor Left Upper Side

Unit : mm

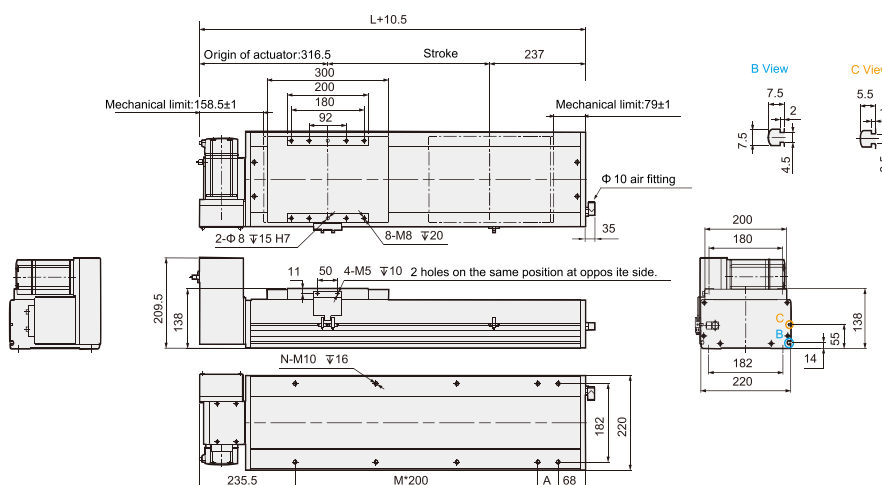


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L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
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N	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

RU Motor Right Upper Side

Unit : mm



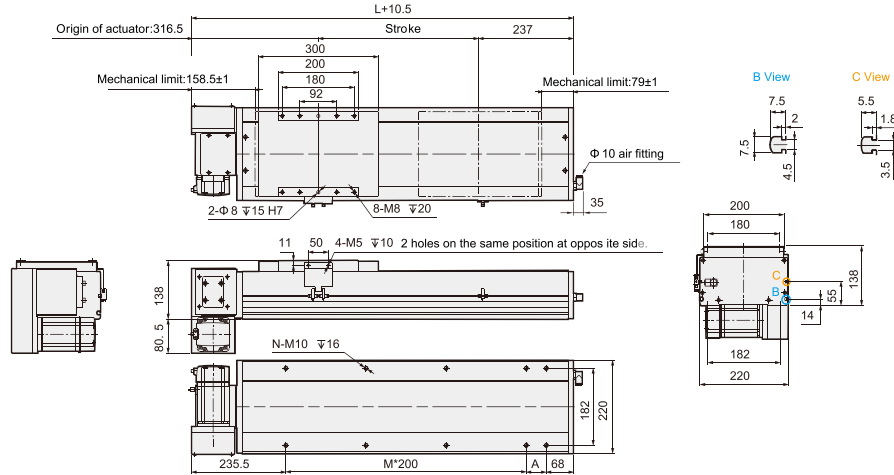
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L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18
N	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

Motor Left Lower Side / Motor Right Lower Side

LD Motor Left Lower Side

Unit : mm

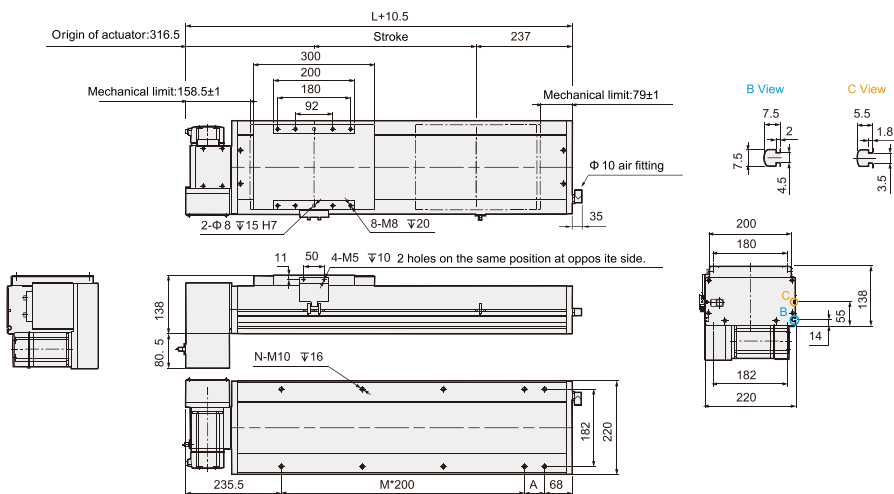


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
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N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
M	9	10	10	10	10	11	11	11	11	11	12	12	12	12	13	13	13	14	14	14	14	15	15	15	15	16	16	16	17	17	17	17	18	18
N	22	24	24	24	24	26	26	26	26	26	28	28	28	28	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

RD Motor Right Lower Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493	1543	1593	1643	1693	1743	1793	1843	1893	1943	1993	2043	2093	2143	2193	2243
A	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2	65.4	66.6	67.8	69	70.2	71.4

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
L	2293	2343	2393	2443	2493	2543	2593	2643	2693	2743	2793	2843	2893	2943	2993	3043	3093	3143	3193	3243	3293	3343	3393	3443	3493	3543	3593	3643	3693	3743	3793	3843	3893	3943
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
M	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	17	17	17	17	18	18	18
N	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40	40
KG	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8	105	106.2	107.4	108.6	109.8	111	112.2

MEMO

MEMO



WGCH Series

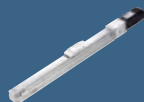
Clean Room/Built-in Linear Motion Guide Ball Screw Actuator

CONTENTS

Clean Room/Ball Screw

SMALL

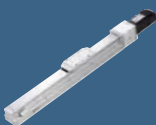
WGCH4



Body width: 44mm
Maximum travel: 500mm.....233
Maximum load: 25kg

SMALL

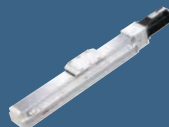
WGCH5



Body width: 54mm
Maximum travel: 800mm.....241
Maximum load: 30kg

MEDIUM

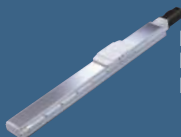
WGCH8



Body width: 82mm
Maximum travel: 1100mm.....245
Maximum load: 50kg

MEDIUM

WGCH12



Body width: 120mm
Maximum travel: 1250mm.....253
Maximum load: 110kg

WGCH Clean Room Built-in Linear Motion Guide Ball Screw Actuator

Environment	Driven Mode	Specification	Motor Output (w)	Width(mm)	Repeatability(mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed ^{*1} (mm/s)
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical	
Clean Room	Ball screw	WGCH4	50W	44	± 0.02 turn ± 0.04	10	2	25	8	100
							6	20	5	300
							12	12	2	600
			100W				2	25	8	100
							6	20	8	300
							12	12	3.5	600
		WGCH5	100W	54	± 0.02 turn ± 0.04	12				
							5	30	10	250
							10	15	5	500
		WGCH8	200W	82	± 0.02 turn ± 0.04	16	20	10	2.5	1000
							5	50	15	250
							10	30	8	500
		WGCH12	400W	120	± 0.02 turn ± 0.04	16	20	18	3	1000
							5	110	33	250
							10	88	22	500
							20	40	10	1000
							32	30	8	1600

*1: The highest speed is based on the maximum servo motor's rpm (3000).

*2: Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious vibration.

Stroke(mm) & Maximum Speed(mm/s) ^{*2}																										Speed	Page		
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350		
				100								90	80	70	60	50													247
				300								270	240	210	180	150													
				600								540	480	420	360	300													
				100								90	80	70	60	50													
				300								270	240	210	180	150													
				600								540	480	420	360	300													
																													255
				250								270	200	175	150														
				500								450	400	350	300														
				1000								900	800	700	600														
			250									225	200	175	150	125	100	75											259
			500									450	400	350	300	250	200	150											
			1000									900	800	700	600	500	400	300											
			250									225	200	175	167	158	150	133	125	117									267
			500									450	400	350	333	317	300	267	250	233									
			1000									900	800	700	667	633	600	533	500	467									
			1600									1440	1280	1120	1067	1013	900	853	800	747									

Clean
Room



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 800mm

Maximum
Speed 600mm/s

Motor output 50W

Ball Screw Φ 10mm

Ordering Method

WGCH4- L6 - 200 - BC - M05B - C 4 - 0001

Model

Customization Order No.

Stroke

50-800mm
Pitch 50 mm

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BR	Motor Right Side
BL	Motor Left Side

Motor Brand , Power Output

M	Mitsubishi	05	50W	B
P	Panasonic	10	-	
Y	Yaskawa	20	-	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

Outside	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Outside	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

2	2mm
6	6mm
12	12mm

* When the stroke is 50mm, the sensor installation has the following restrictions:
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Specification

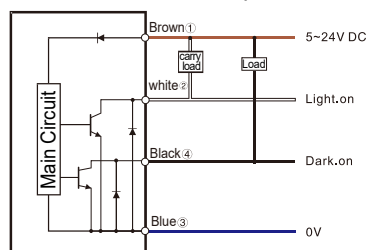
Spec	Repeatability (mm)		± 0.02 (turn ± 0.04)		
	Ball Screw Lead (mm)		2	6	12
	Maximum Speed (mm/s) ※1		100	300	600
	Maximum Payload	Horizontal (kg)	25		12
		Vertical (kg)	8	5	2
	Rated Thrust (N)		424	141	71
	Stroke Pitch (mm) ※2		50-800mm / 50 50 mmPitch		
Parts	AC Servo Motor Output (W)		50		
	Ball Screw Ø (mm)		C Φ 10		
	Coupling (mm)		7X8		
	Home Sensor	Outside	674 (NPN/ PNP)		

※1 Acceleration and deceleration value is set 0.2 second.

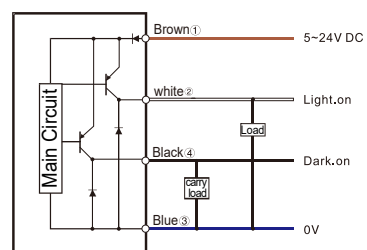
※2 When the stroke is over 550mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances.
Please refer to P349 for details.

Sensor Layout

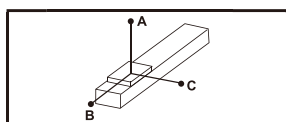
DC four-wire NPN output



DC four-wire PNP output

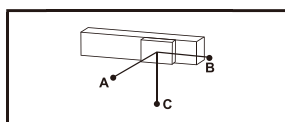


Allowable Overhang



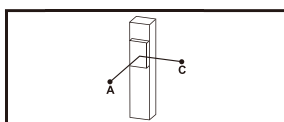
(Unit :mm)

Horizontal Installation		A	B	C
2 Lead	12kg	1000	55	80
	18kg	750	35	50
	25kg	500	23	32
6 Lead	10kg	550	53	70
	15kg	350	32	45
	20kg	250	22	31
12 Lead	8kg	305	59	75
	10kg	240	45	57
	12kg	195	37	47



(Unit :mm)

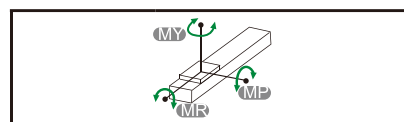
Wall Installation		A	B	C
2 Lead	12kg	80	55	1000
	18kg	50	35	750
	25kg	32	23	500
6 Lead	10kg	72	52	550
	15kg	45	32	345
	20kg	31	22	250
12 Lead	8kg	75	59	300
	10kg	58	45	240
	12kg	47	37	190



(Unit :mm)

Vertical Installation		A	C
2 Lead	4kg	200	200
	8kg	100	100
	-	-	-
6 Lead	3kg	200	200
	5kg	120	120
	-	-	-
12 Lead	1.5kg	350	350
	2kg	260	260
	-	-	-

Static Loading Moment



(Unit :N.m)

MY	79
MP	79
MR	116

• The torque value in the chart indicate the center of gravity.
• Operation life is 10,000km when the product is using under the specified conditions.
• Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

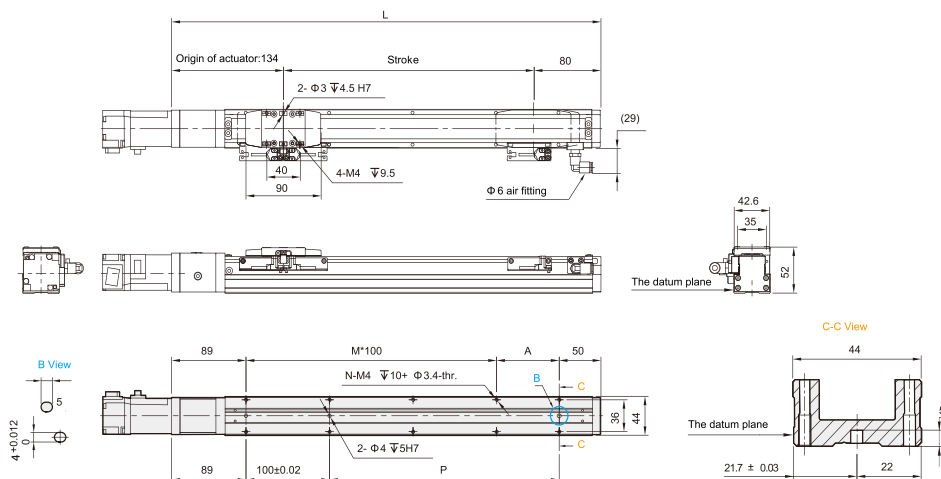
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	50	220	HG-KR053	MR-J4-10A
		With Brake (Vertical Type)	50	220	HG-KR053B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	50	220	MSMD5A2G1U	MADHT1505
		With Brake (Vertical Type)	50	220	MSMD5A2G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	50	220	ECMA-C1040FES	ASD-B20121-B
		With Brake (Vertical Type)	50	220	ECMA-C1040FFS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

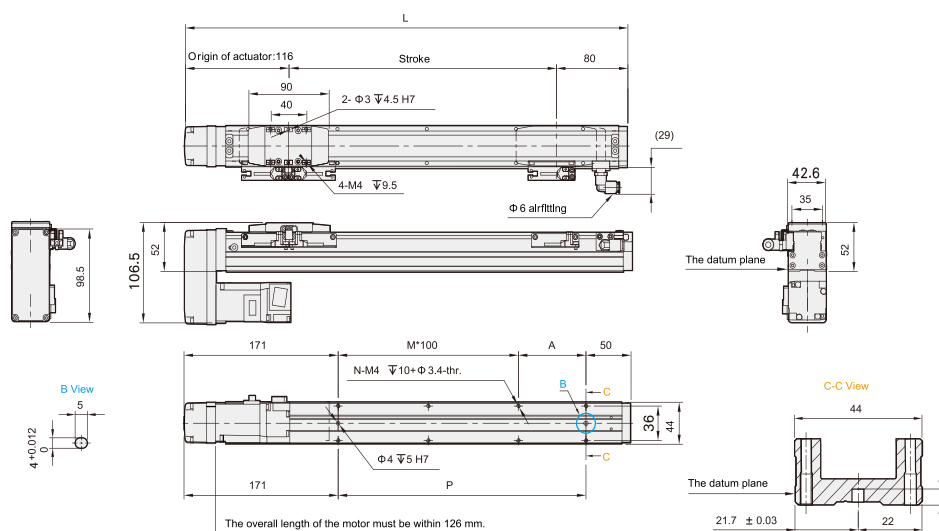


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.23	1.41	1.59	1.77	1.95	2.13	2.31	2.49	2.67	2.85	3.03	3.21	3.39	3.57	3.75	3.93

BM Motor Bottom Side

Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.34	1.52	1.70	1.88	2.06	2.24	2.42	2.60	2.78	2.96	3.14	3.32	3.50	3.68	3.86	4.04

* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 800mm

Maximum
Speed 600mm/s

Motor output 100W

Ball Screw Φ 10mm

Ordering Method

WGCH4 - L6 - 200 - BC - M10B - C 4 - 0001

Model

Stroke

50-800mm
Pitch 50 mm

Customization Order No.

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BR	Motor Right Side
BL	Motor Left Side

Motor Brand ,Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	100W	
Y	Yaskawa	20	-	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

	Outside
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Outside
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

2	2mm
6	6mm
12	12mm

* When the stroke is 50mm, the sensor installation has the following restrictions:
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Specification

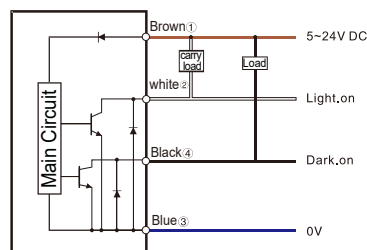
Spec	Repeatability (mm)		$\pm 0.02(\text{turn} \pm 0.04)$		
	Ball Screw Lead (mm)		2	6	12
	Maximum Speed (mm/s) ※1		100	300	600
	Maximum Payload	Horizontal (kg)	25	20	12
		Vertical (kg)	8	8	3.5
	Rated Thrust (N)		424	141	71
	Stroke Pitch (mm) ※2		50-800mm / 50 50 mmPitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw Ø (mm)		C7Φ10		
	Coupling (mm)		7X8		
	Home Sensor	Outside	674 (NPN/ PNP)		

※1 Acceleration and deceleration value is set 0.2 second.

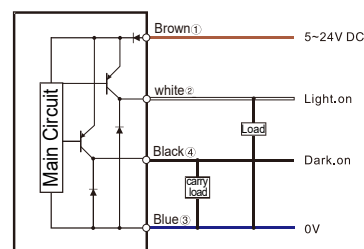
※2 When the stroke is over 550mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances. Please refer to P349 for details.

Sensor Layout

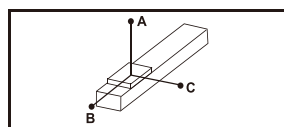
DC four-wire NPN output



DC four-wire PNP output

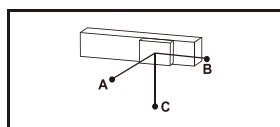


Allowable Overhang



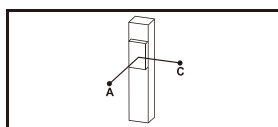
(Unit :mm)

Horizontal Installation		A	B	C
2 Lead	12kg	1000	55	80
	18kg	750	35	50
	25kg	500	23	32
6 Lead	10kg	550	53	70
	15kg	350	32	45
	20kg	250	22	31
12 Lead	8kg	305	59	75
	10kg	240	45	57
	12kg	195	37	47



(Unit :mm)

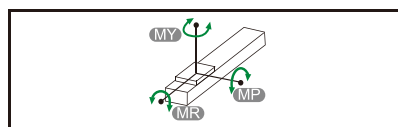
Wall Installation		A	B	C
2 Lead	12kg	80	55	1000
	18kg	50	35	750
	25kg	32	23	500
6 Lead	10kg	72	52	550
	15kg	45	32	345
	20kg	31	22	250
12 Lead	8kg	75	59	300
	10kg	58	45	240
	12kg	47	37	190



(Unit :mm)

Vertical Installation		A	C
2 Lead	4kg	195	195
	8kg	100	100
	-	-	-
6 Lead	3kg	150	150
	5kg	75	75
	-	-	-
12 Lead	1.5kg	260	260
	2kg	150	150
	-	-	-

Static Loading Moment



(Unit :N.m)

MY	79
MP	79
MR	116

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

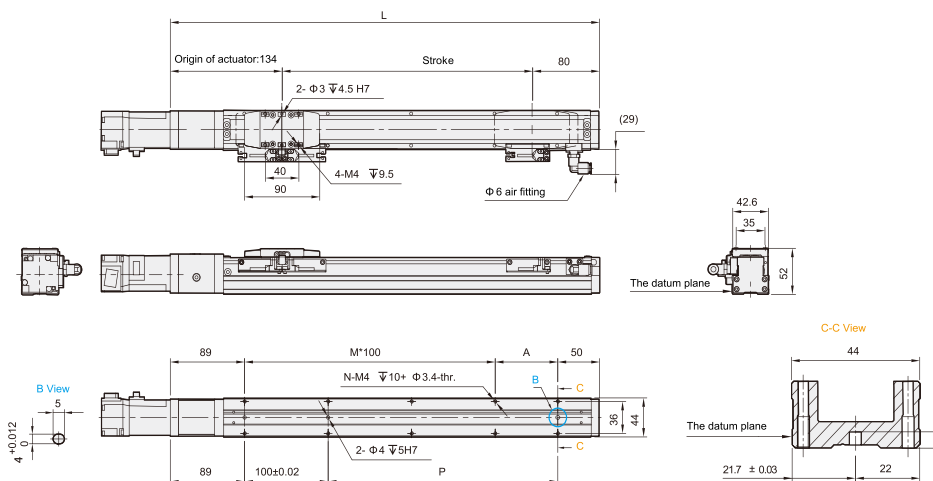
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

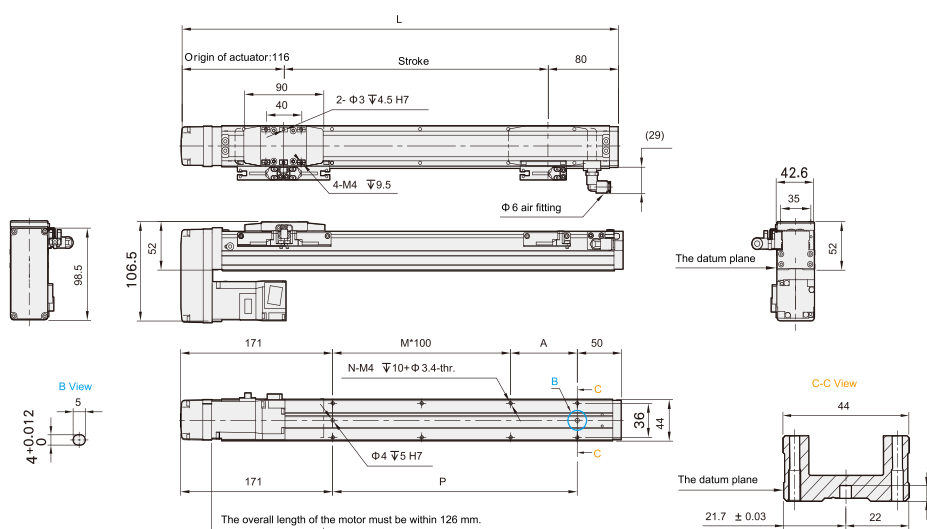


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.23	1.41	1.59	1.77	1.95	2.13	2.31	2.49	2.67	2.85	3.03	3.21	3.39	3.57	3.75	3.93

BM Motor Bottom Side

Unit : mm



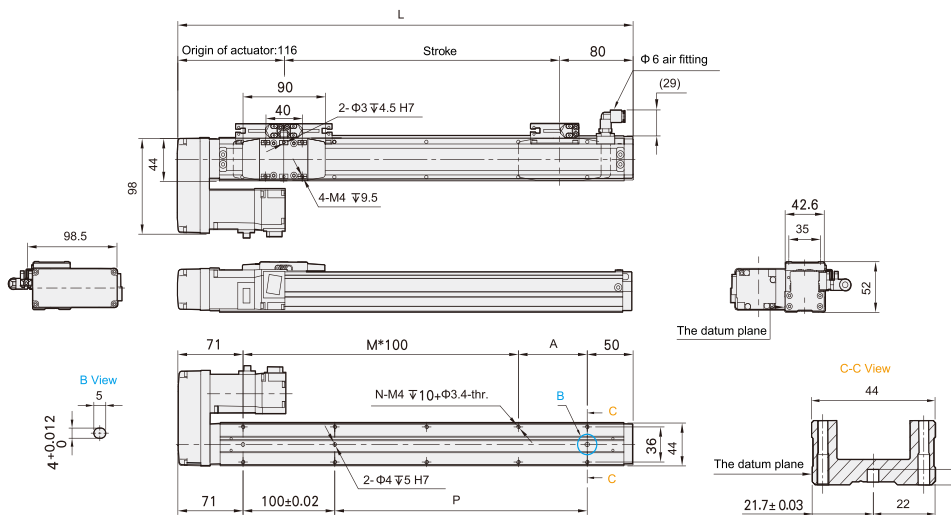
※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.34	1.52	1.70	1.88	2.06	2.24	2.42	2.60	2.78	2.96	3.14	3.32	3.50	3.68	3.86	4.04

* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Module

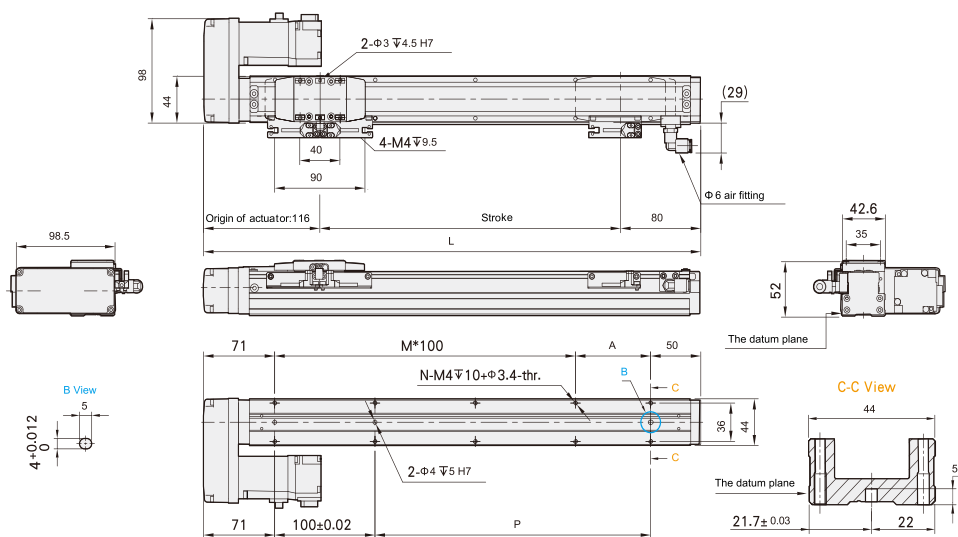
Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [®]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.34	1.52	1.70	1.88	2.06	2.24	2.42	2.60	2.78	2.96	3.14	3.32	3.50	3.68	3.86	4.04

Unit : mm



When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix;as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [®]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.34	1.52	1.70	1.88	2.06	2.24	2.42	2.60	2.78	2.96	3.14	3.32	3.50	3.68	3.86	4.04



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 800mm

Maximum
Speed 1000mm/s

Motor output 100W

Ball Screw Φ 12mm

Ordering Method

WGCH5 - L5 - 200 - BC - M10B - C 4 - 0001

Model

Stroke

50-800mm
Pitch 50 mm

Customization Order No.

Ball Screw Lead

2	2mm
5	5mm
10	10mm
20	20mm

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BR	Motor Right Side
BL	Motor Left Side

Motor Brand, Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	100W	
Y	Yaskawa	20	-	
T	Delta	40	-	

*If No Brake, No Description.

Home Sensor

	Outside
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

*When the stroke is 50mm, the sensor installation has the following restrictions:
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Limit Sensor

	Outside
3	2 Pc
4	3 Pc
5	No Sensor

Specification

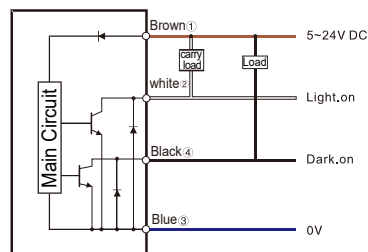
Spec	Repeatability (mm)		$\pm 0.02(\text{turn} \pm 0.04)$		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s) ※1		250	500	1000
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm) ※2		50-800mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw Ø (mm)		C7Φ 12		
	Coupling (mm)		7X8		
	Home Sensor	外掛 Outside	674 (NPN/ PNP)		

※1 Acceleration and deceleration value is set 0.2 second.

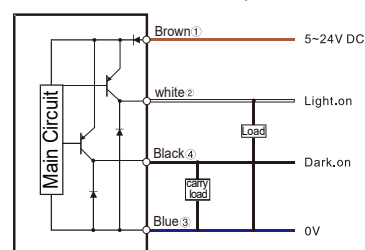
※2 When the stroke is over 600mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances. Please refer to P349 for details.

Sensor Layout

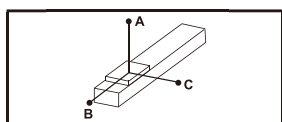
DC four-wire NPN output



DC four-wire PNP output

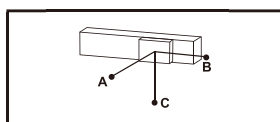


Allowable Overhang



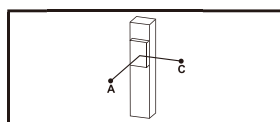
(Unit :mm)

Horizontal Installation		A	B	C
5 Lead	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
10 Lead	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
20 Lead	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60



(Unit :mm)

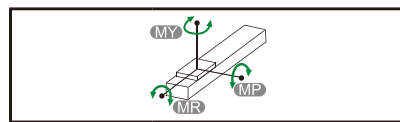
Wall Installation		A	B	C
5 Lead	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
10 Lead	5kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
20 Lead	5kg	130	120	320
	8kg	75	70	220
	10kg	60	55	170



(Unit :mm)

Vertical Installation		A	C
5 Lead	6kg	145	145
	8kg	110	110
	10kg	90	90
10 Lead	1kg	800	800
	3kg	260	260
	5kg	155	155
20 Lead	1kg	600	600
	2kg	300	300
	2.5kg	250	250

Static Loading Moment



(Unit :N.m)

MY	103
MP	103
MR	144

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

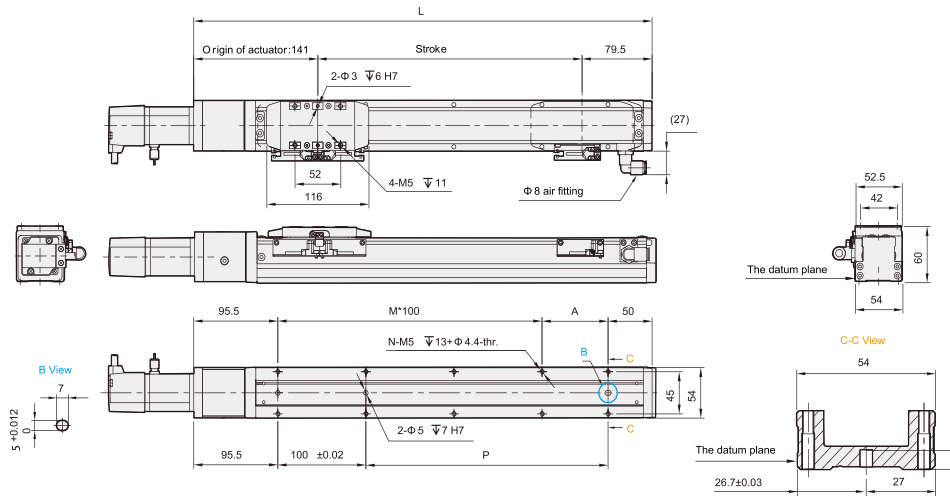
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

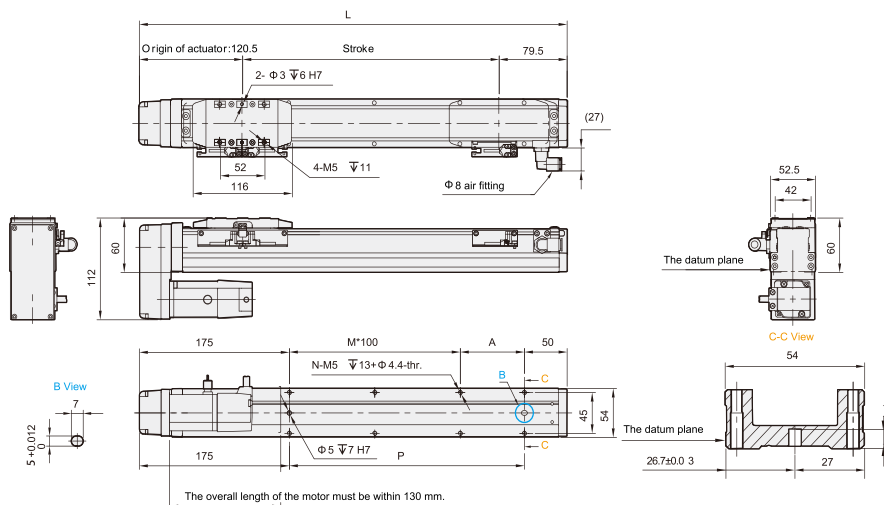


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.95	2.09	2.22	2.41	2.69	2.80	2.82	3.05	3.16	3.25	3.45	3.58	3.74	3.88	4.01	4.39

BM Motor Bottom Side

Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

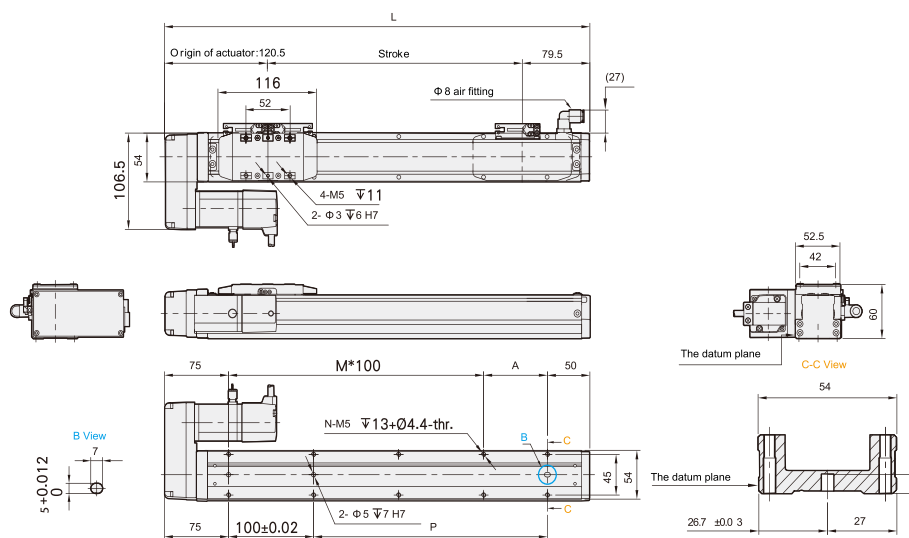
Stroke	50 [※]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.98	2.01	2.33	2.44	2.72	2.83	2.88	3.08	3.19	3.28	3.48	3.61	3.77	3.90	4.04	4.42

*When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

Unit : mm

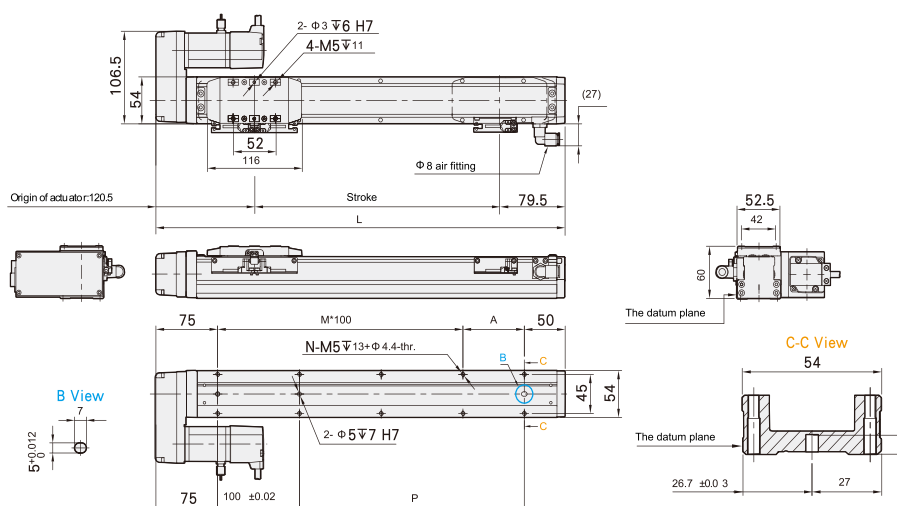


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.98	2.01	2.33	2.44	2.72	2.83	2.88	3.08	3.19	3.28	3.48	3.61	3.77	3.90	4.04	4.42

BR Motor Right Side

Unit : mm



※ When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.98	2.01	2.33	2.44	2.72	2.83	2.88	3.08	3.19	3.28	3.48	3.61	3.77	3.90	4.04	4.42



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1100mm

Maximum
Speed 1000mm/s

Motor output 200W

Ball Screw Φ 16mm

Ordering Method

WGCH8- L20 - 200 - BC - M20B - C 4 - 0001

Model

Stroke

50-1100mm
Pitch 50 mm

Customization Order No.

Ball Screw Lead

5	5mm
10	10mm
20	20mm

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BR	Motor Right Side
BL	Motor Left Side

Motor Brand, Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	-	
Y	Yaskawa	20	200W	
T	Delta	40	-	

* If No Brake, No Description.

Home Sensor

	Outside
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Outside
3	2 Pc
4	3 Pc
5	No Sensor

* When the stroke is 50mm, the sensor installation has the following restrictions:
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Specification

Spec	Repeatability (mm)		$\pm 0.02(\text{turn} \pm 0.04)$		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s) ※1		250	500	1000
	Maximum Payload	Horizontal (kg)	50	30	18
		Vertical (kg)	15	8	3
	Rated Thrust (N)		683	341	174
	Stroke Pitch (mm) ※2		50-1100mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		200		
	Ball Screw Ø (mm)		C7Φ 16		
	Coupling (mm)		10X14/11 (註 1)		
	Home Sensor	Outside	674 (NPN/ PNP)		

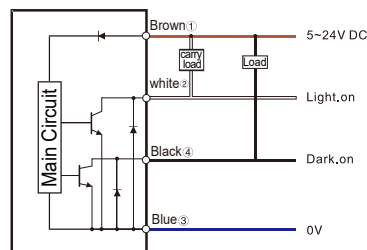
※1 Acceleration and deceleration value is set 0.2 second.

※2 When the stroke is over 750mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under
this circumstances. Please refer to P349 for details.

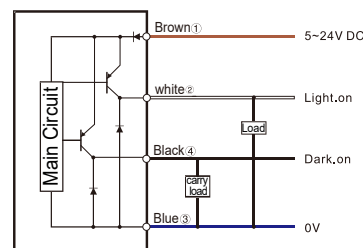
Motor (200W) Shaft Diameter r: Panasonic: 11mm; Other: 14mm.

Sensor Layout

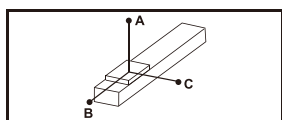
DC four-wire NPN output



DC four-wire PNP output

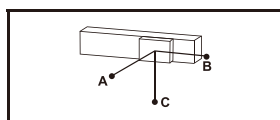


Allowable Overhang



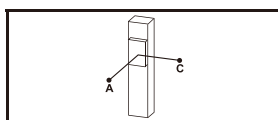
(Unit :mm)

Horizontal Installation		A	B	C
5 Lead	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
10 Lead	10kg	1730	286	412
	20kg	839	136	196
	30kg	541	86	124
20 Lead	6kg	1213	403	493
	9kg	800	264	323
	18kg	592	194	238



(Unit :mm)

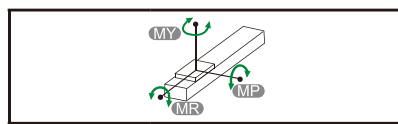
Wall Installation		A	B	C
5 Lead	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
10 Lead	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
20 Lead	6kg	444	403	760
	9kg	292	264	277
	18kg	214	194	544



(Unit :mm)

Vertical Installation		A	C
5 Lead	10kg	331	331
	15kg	220	220
	-	-	-
10 Lead	5kg	589	589
	8kg	368	368
	-	-	-
20 Lead	3kg	935	935
	-	-	-
	-	-	-

Static Loading Moment



(Unit :N.m)

MY	318
MP	318
MR	626

*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

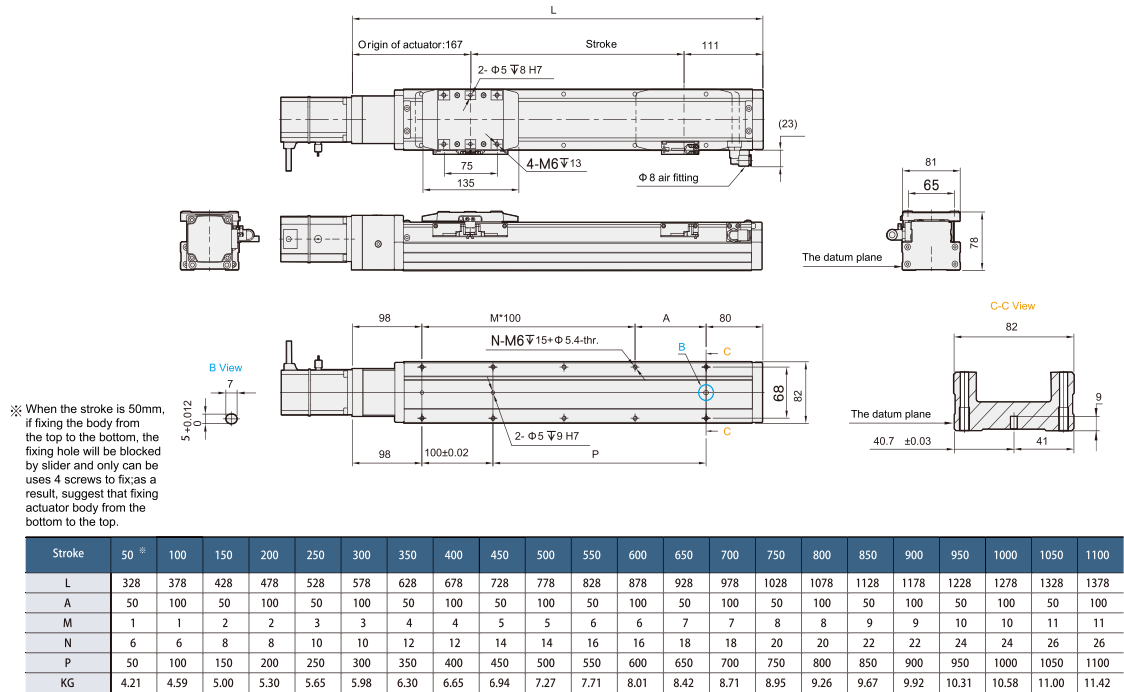
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

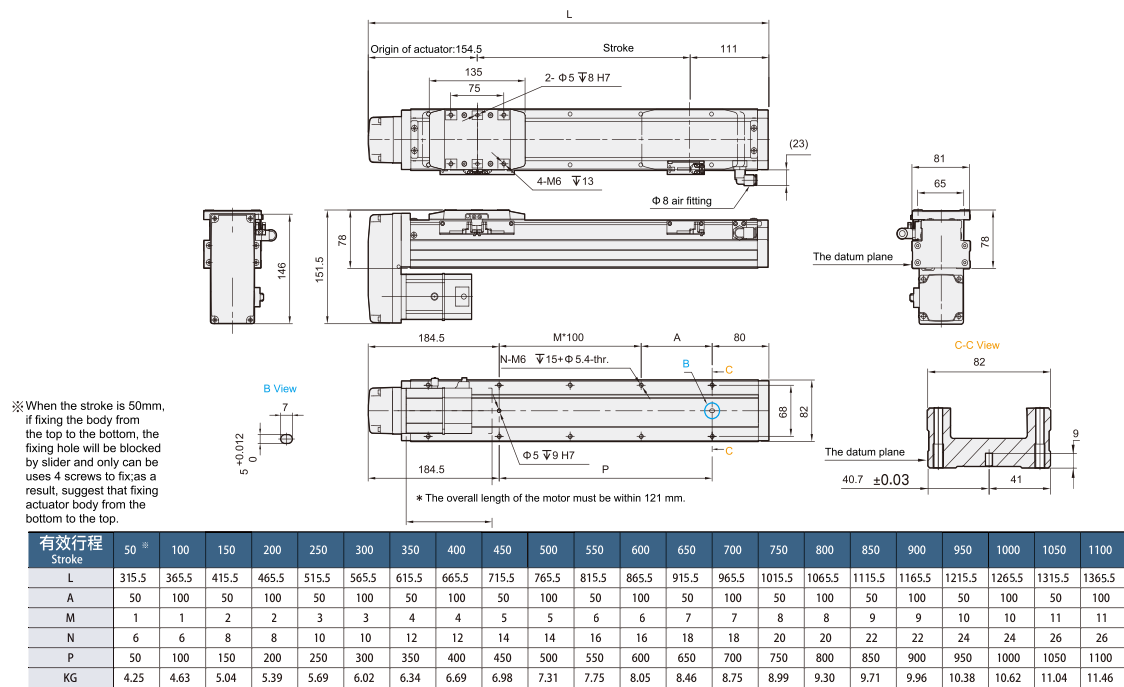
Unit : mm



※ When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

BM Motor Bottom Side

單位 Unit : mm



※ When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

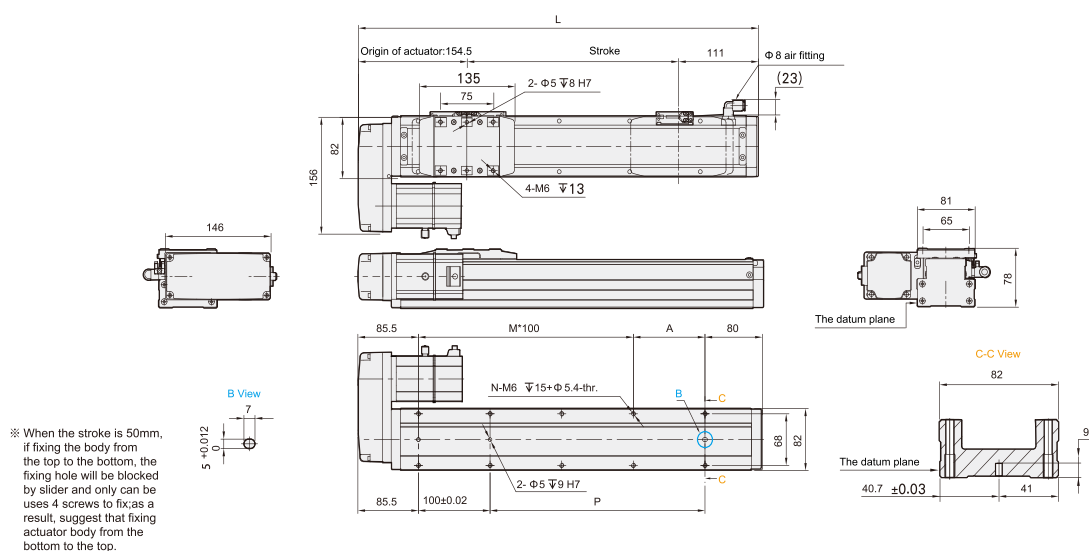
* The overall length of the motor must be within 121 mm.

* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

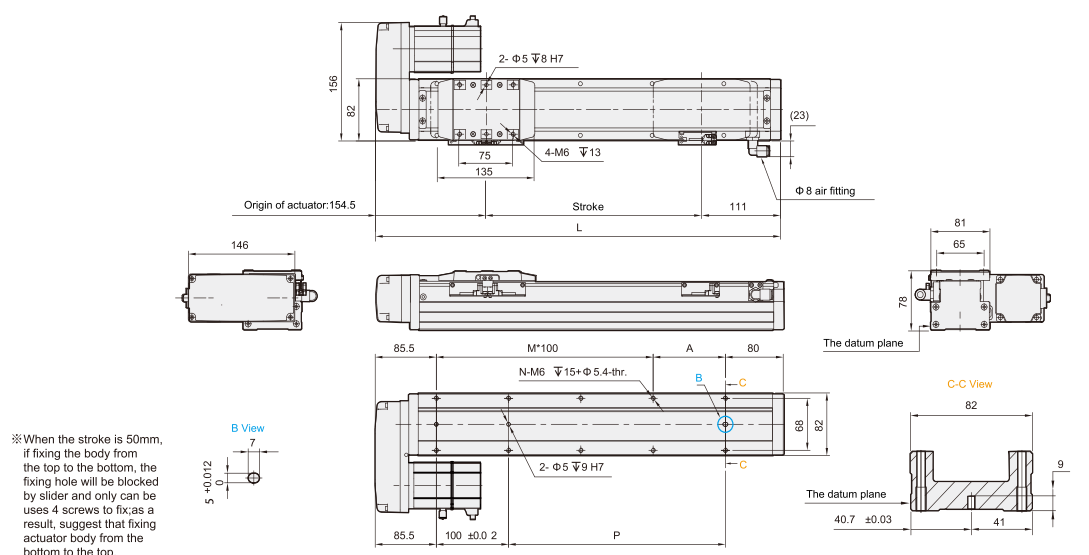
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	315.5	365.5	415.5	465.5	515.5	565.5	615.5	665.5	715.5	765.5	815.5	865.5	915.5	965.5	1015.5	1065.5	1115.5	1165.5	1215.5	1265.5	1315.5	1365.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.25	4.63	5.04	5.39	5.69	6.02	6.34	6.69	6.98	7.31	7.75	8.05	8.46	8.75	8.99	9.30	9.71	9.96	10.38	10.62	11.04	11.46

BR Motor Right Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	315.5	365.5	415.5	465.5	515.5	565.5	615.5	665.5	715.5	765.5	815.5	865.5	915.5	965.5	1015.5	1065.5	1115.5	1165.5	1215.5	1265.5	1315.5	1365.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.25	4.63	5.04	5.39	5.69	6.02	6.34	6.69	6.98	7.31	7.75	8.05	8.46	8.75	8.99	9.30	9.71	9.96	10.38	10.62	11.04	11.46



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke 1100mm

Maximum
Speed 1000mm/s

Motor output 400W

Ball Screw Φ 16mm

Ordering Method

WGCH8- L20 - 200 - BC - M40B - C 4 - 0001

Model

Stroke

50-1100mm
Pitch 50 mm

Customization Order No.

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BR	Motor Right Side
BL	Motor Left Side

Motor Brand, Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	-	
Y	Yaskawa	20	-	
T	Delta	40	400W	

* If No Brake, No Description.

Home Sensor

	Outside
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Outside
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm

*When the stroke is 50mm, the sensor installation has the following restrictions.
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Specification

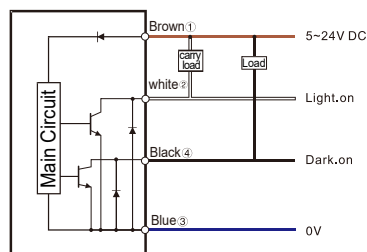
Spec	Repeatability (mm)		$\pm 0.02(\text{turn}) \pm 0.04$		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s) ※1		250	500	1000
	Maximum Payload	Horizontal (kg)	50	30	18
		Vertical (kg)	15	8	3
	Rated Thrust (N)		683	341	174
	Stroke Pitch (mm) ※2		50-1100mm / 50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		400		
	Ball Screw Ø (mm)		C7Φ 16		
	Coupling (mm)		10X14		
	Home Sensor	Outside	674 (NPN/ PNP)		

※1 Acceleration and deceleration value is set 0.2 second.

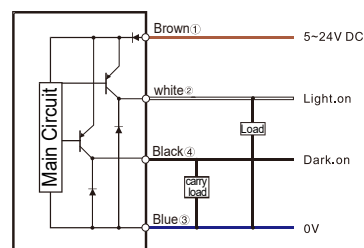
※2 When the stroke is over 750mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances. Please refer to P349 for details.

Sensor Layout

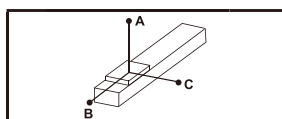
DC four-wire NPN output



DC four-wire PNP output

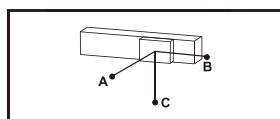


Allowable Overhang



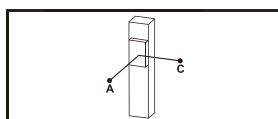
(Unit :mm)

Horizontal Installation		A	B	C
5 Lead	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
10 Lead	10kg	1730	286	412
	20kg	839	136	196
	30kg	541	86	124
20 Lead	6kg	1213	403	493
	9kg	800	264	323
	18kg	592	194	238



(Unit :mm)

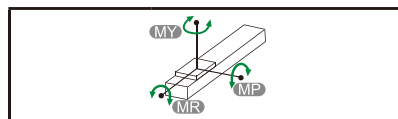
Wall Installation		A	B	C
5 Lead	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
10 Lead	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
20 Lead	6kg	444	403	760
	9kg	292	264	277
	18kg	214	194	544



(Unit :mm)

Vertical Installation		A	C
5 Lead	10kg	331	331
	15kg	220	220
	-	-	-
10 Lead	5kg	589	589
	8kg	368	368
	-	-	-
20 Lead	3kg	935	935
	-	-	-
	-	-	-

Static Loading Moment



(Unit :N.m)

MY	318
MP	318
MR	626

*The torque value in the chart indicate the center of gravity.
*Operation life is 10,000km when the product is using under the specified conditions.
*Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

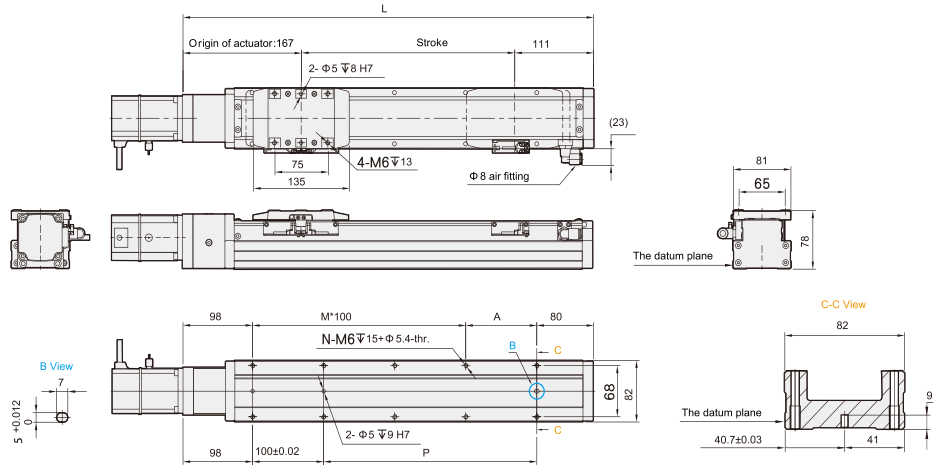
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

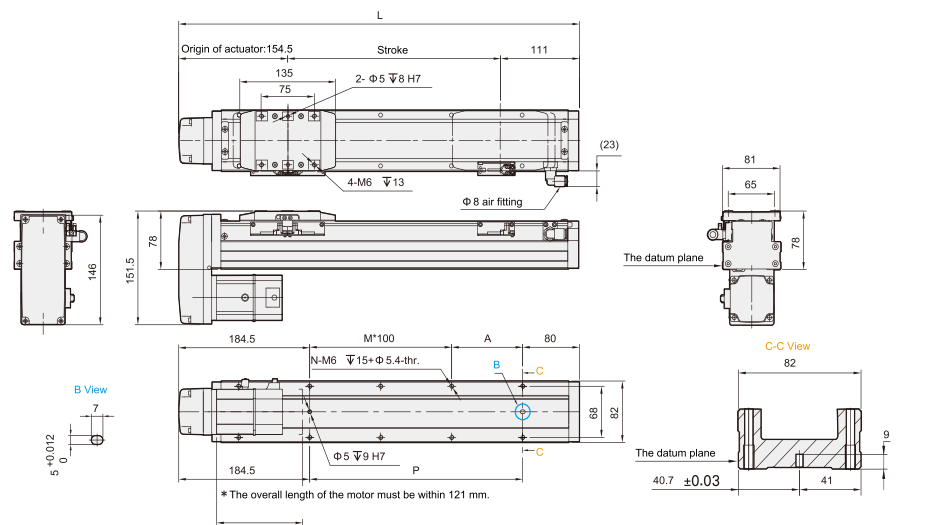
Unit : mm



有效行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.21	4.59	5.00	5.30	5.65	5.98	6.30	6.65	6.94	7.27	7.71	8.01	8.42	8.71	8.95	9.26	9.67	9.92	10.31	10.58	11.00	11.42

BM Motor Bottom Side

Unit : mm



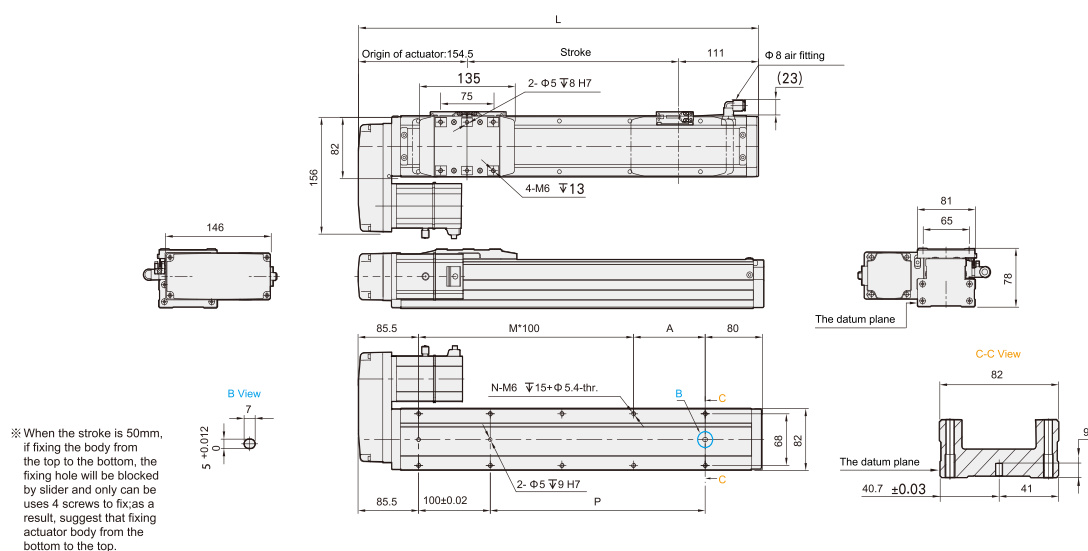
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.25	4.63	5.04	5.39	5.69	6.02	6.34	6.69	6.98	7.31	7.75	8.05	8.46	8.75	8.99	9.30	9.71	9.96	10.38	10.62	11.04	11.46

* When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

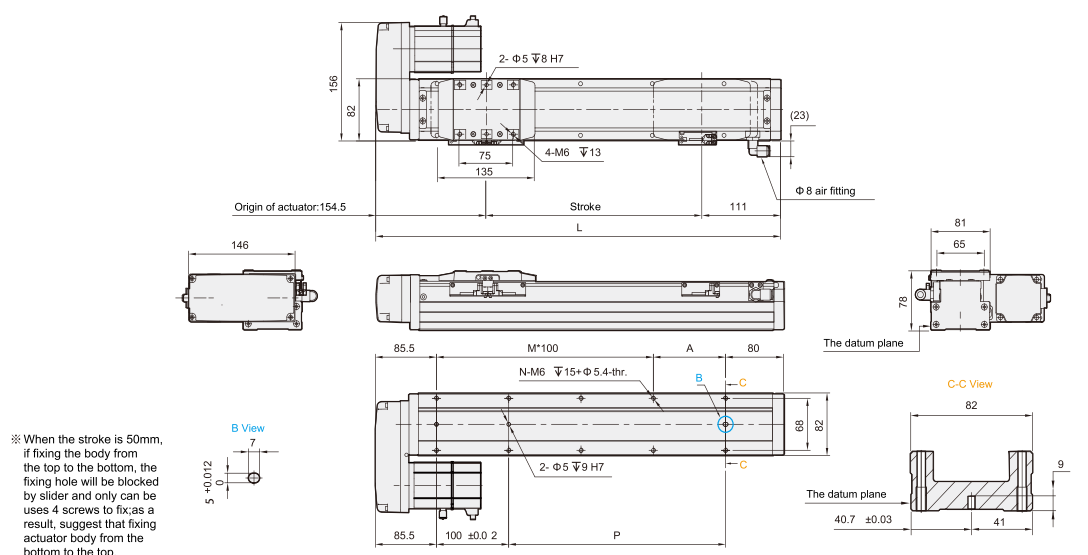
Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.25	4.63	5.04	5.39	5.69	6.02	6.34	6.69	6.98	7.31	7.75	8.05	8.46	8.75	8.99	9.30	9.71	9.96	10.38	10.62	11.04	11.46

BR Motor Right Side

Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	4.25	4.63	5.04	5.39	5.69	6.02	6.34	6.69	6.98	7.31	7.75	8.05	8.46	8.75	8.99	9.30	9.71	9.96	10.38	10.62	11.04	11.46



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 1250mm

Maximum Speed 1600mm/s

Motor output 400W

Ball Screw Φ 16mm

Ordering Method

WGCH12-L10 - 200 - BC - M40B - C 4 - 0001

Model

Customization Order No.

Stroke

50-1250mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand, Power Output

M	Mitsubishi	05	-	B
P	Panasonic	10	-	
Y	Yaskawa	20	-	
T	Delta	40	400W	

* If No Brake, No Description.

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

* When the stroke is 50mm, the sensor installation has the following restrictions:
1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

Limit Sensor

	Outside
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
32	32mm

Specification

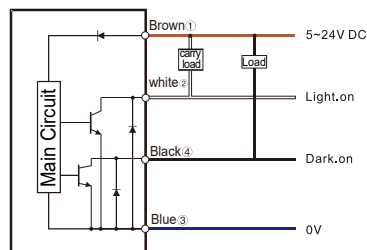
Spec	Repeatability (mm)		$\pm 0.02(\text{turn} \pm 0.04)$			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)*1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)		1388	694	347	218
	Stroke Pitch (mm)*2		50-1250mm / 5050 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw Ø (mm)		C7Φ 16			
	Coupling (mm)		10X14			
	Home Sensor	Outside	674 (NPN/ PNP)			

*1 Acceleration and deceleration value is set 0.2 second.

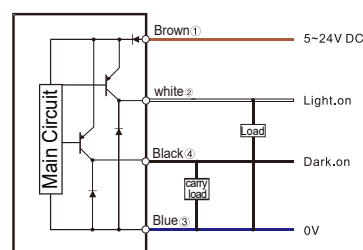
*2 When the stroke is over 800mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances. Please refer to P349 for details.

Sensor Layout

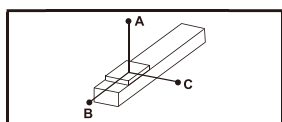
DC four-wire NPN output



DC four-wire PNP output

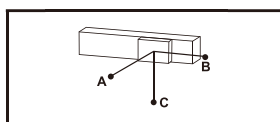


Allowable Overhang



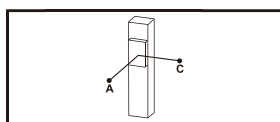
(Unit :mm)

Horizontal Installation		A	B	C
5 Lead	60kg	2850	250	340
	80kg	2100	180	250
	110kg	1500	120	170
10 Lead	30kg	2850	490	600
	50kg	1700	280	350
	88kg	950	140	190
20 Lead	10kg	3400	1250	1400
	22kg	1650	550	620
	40kg	900	290	330
32 Lead	15kg	1100	570	550
	25kg	620	330	320
	30kg	520	270	260



(Unit :mm)

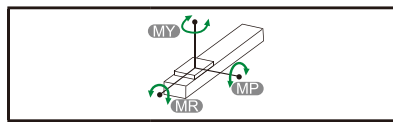
Wall Installation		A	B	C
5 Lead	55kg	280	280	3300
	75kg	200	195	2400
	110kg	130	125	1550
10 Lead	35kg	400	410	2500
	55kg	245	250	1550
	88kg	150	150	950
20 Lead	12kg	900	1070	3000
	20kg	550	630	1800
	40kg	260	300	900
32 Lead	15kg	440	570	1050
	30kg	210	270	520
	-	-	-	-



(Unit :mm)

Vertical Installation		A	C
5 Lead	15kg	1200	1200
	22kg	820	820
	33kg	550	550
10 Lead	10kg	1600	1600
	14kg	1150	1150
	22kg	730	730
20 Lead	7kg	1800	1800
	10kg	1250	1250
	-	-	-
32 Lead	5kg	1600	1600
	8kg	1000	1000
	-	-	-

Static Loading Moment



(Unit :N.m)

MY	606
MP	606
MR	1168

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

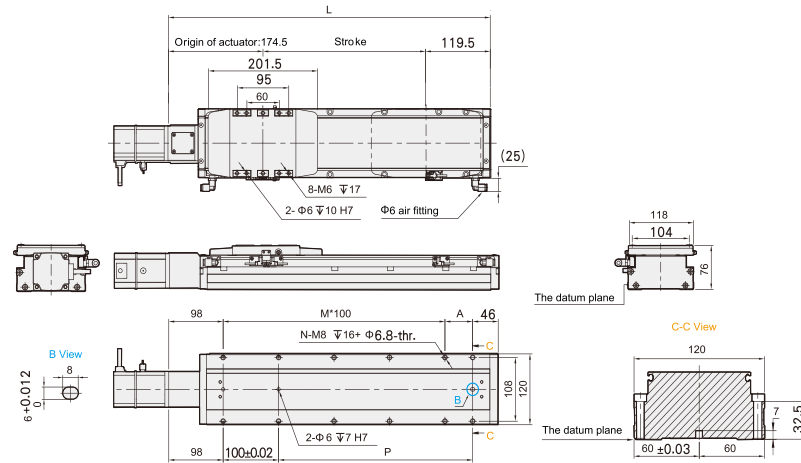
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MSMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MSMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

Unit : mm

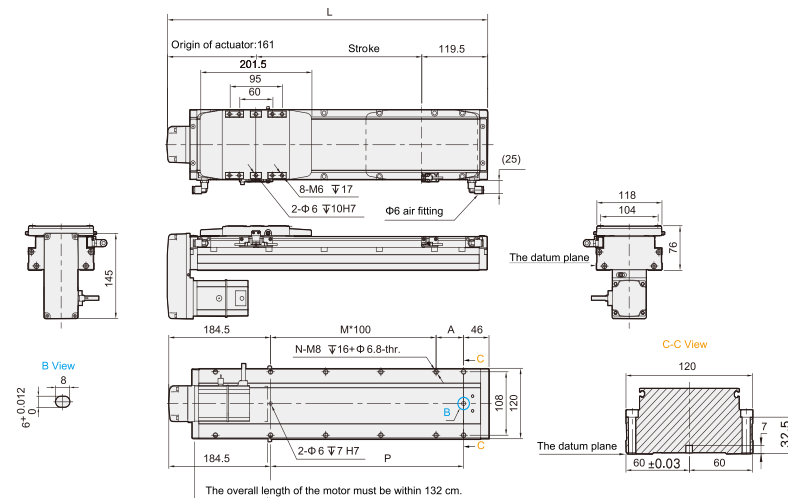


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45

BM Motor Bottom Side

Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

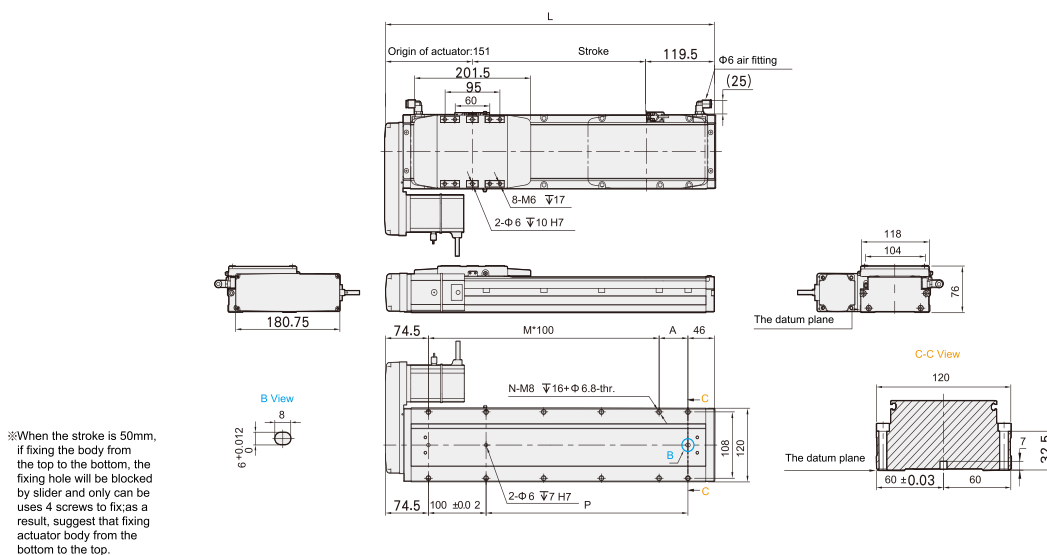
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

*When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

Motor Left Side / Motor Right Side

BL Motor Left Side

Unit : mm

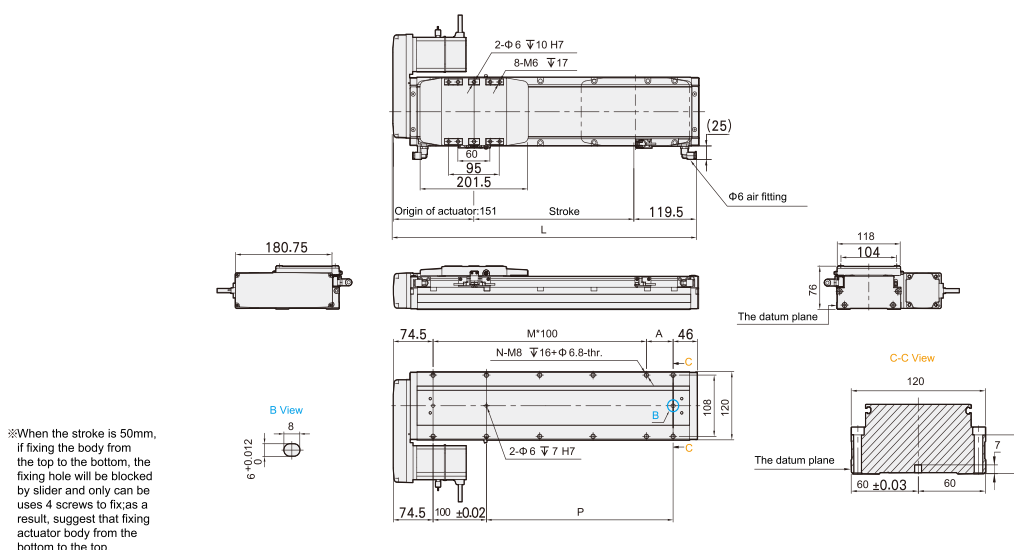


※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.26	13.61	

BR Motor Right Side

Unit : mm



※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.26	13.61	

Fully enclosed lead screw

MEMO

Module

WECH Series

Clean Room/Ball Screw

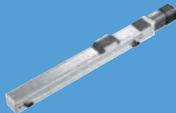


CONTENTS

Clean Room/Ball Screw

SMALL

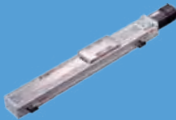
WECH5M



Body width:51mm
Maximum travel:800mm.....261
Maximum Load:10kg

SMALL

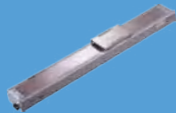
WECH6M



Body width:65mm
Maximum travel:800mm.....269
Maximum Load:30kg

MEDIUM

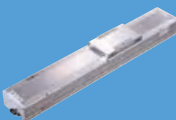
WECH10



Body width:102mm
Maximum travel:1050mm.....278
Maximum Load:50kg

MEDIUM

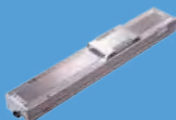
WECH12



Body width:102mm
Maximum travel:1050mm.....287
Maximum Load:50kg

MEDIUM

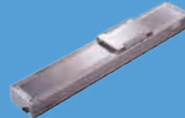
WECH14



Body width:135mm
Maximum travel:1050mm.....297
Maximum Load:110kg

LARGE

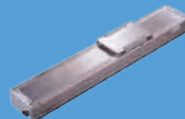
WECH17



Body width:170mm
Maximum travel:1250mm.....307
Maximum Load:120kg

LARGE

WECH22



Body width:220mm
Maximum travel:1500mm.....316
Maximum Load:150kg

WECH Clean Room BallScrew Actuator

Use Where	Driven Mode	Model Specification	Motor Output (w)	Width(mm)	Repeatability (mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed (mm/s) ^{*1}
						Outer Diameter (mm)	Lead(mm)	Horizontal	Vertical	
Clean Room	Ball Screw	WECH5M	42M (Stepping Motor)	51	± 0.02 Turn ± 0.04	12	5	10	3	41
							10	5	1.5	83
							20	3	1.5	166
			100W	51	± 0.02 Turn ± 0.04	12	5	10	3	250
							10	5	1.5	500
							20	3	1.5	1000
		WECH6M	57M (Stepping Motor)	65	± 0.02 Turn ± 0.04	12	5	30	10	41
							10	15	5	83
							20	10	2	166
			100W	65	± 0.02 Turn ± 0.04	12	5	30	10	250
							10	15	5	500
							20	10	2	1000
			100W	102	± 0.02 Turn ± 0.04	16	5	50	12	250
							10	30	8	500
							20	18	3	1000
			200W	102	± 0.02 Turn ± 0.04	16	32	5	-	1600
							5	50	12	250
							10	30	8	500
			100W	102	± 0.02 Turn ± 0.04	16	20	18	3	1000
							32	5	-	1600
							5	50	12	250
			200W	102	± 0.02 Turn ± 0.04	16	10	30	8	500
							20	18	3	1000
							32	5	-	1600
			200W	135	± 0.02 Turn ± 0.04	16	5	95	27	250
							10	75	18	500
							20	35	7	1000
			400W	135	± 0.02 Turn ± 0.04	16	32	15	-	1600
							5	110	33	250
							10	88	22	500
			400W	170	± 0.02 Turn ± 0.04	20	20	40	10	1000
							32	30	8	1600
							5	120	40	250
			750W	170	± 0.02 Turn ± 0.04	20	10	110	30	500
							20	75	14	1000
							40	22	7	2000
			750W	220	± 0.02 Turn ± 0.04	25	5	120	50	250
							10	120	40	500
							20	83	25	1000
		WECH22	750W	220	± 0.02 Turn ± 0.04	25	40	43	12	2000
							5	150	55	250
							10	150	45	500
						20	25	105	20	1250
							40	43	12	2000

*1: The highest speed is based on the maximum servo motor's rpm (3000).
The highest speed is based on the maximum stepping motor's rpm (500).

*2: Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious virbration.



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **166mm/s**

Maximum Static Torque **0.32 N.m.**

Ball Screw **Ø 12mm**

Linear Guide **24X8.5 -1stick**

Ordering Method

WECH5M - L 5 - 50 - BC - 42 M - C 4 - 0001

Model

Stroke

50-800mm
50 mm Pitch

Special Order No.

Ball Screw Lead

02	2mm
05	5mm
10	10mm
20	20mm

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand, Model

Tamagawa	TS3617N3E8
Oriental	PK245-01A
Sanyo	103H5209-0440

Home Sensor

	Out Side
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

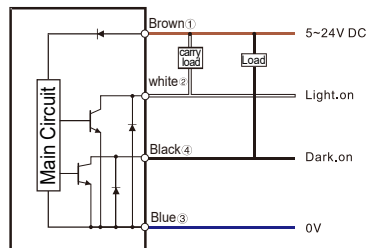
Specification

Spec	Repeatability (mm)		± 0.02 (Turn) ± 0.04		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		41	83	166
	Maximum Payload	Horizontal (kg)	10	5	3
		Vertical (kg)	3	1.5	1.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	Maximum Static Torque (N.m.)		0.32		
	Ball Screw Ø (mm)		C7 ϕ 12		
	High Rigidity Linear Guide (mm)		W24XH8.5		
	Coupling (mm)		8X5		
	Home Sensor	Outside	672 (NPN/ PNP)		

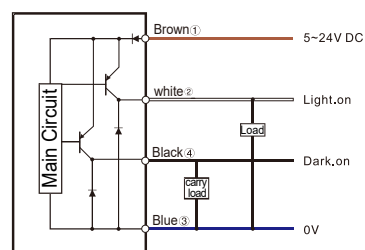
※ Acceleration and deceleration value is set 0.2 second.

Sensor Layout

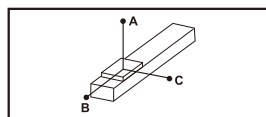
DC four-wire NPN output



DC four-wire PNP output

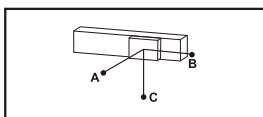


Allowable Overhang



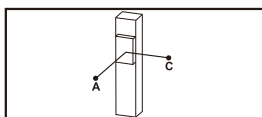
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	5kg	280	24	55
	10kg	120	10	22
10 Lead	3kg	245	40	78
	5kg	140	22	43
20 Lead	2kg	153	50	79
	3kg	99	32	50



(Unit : mm)

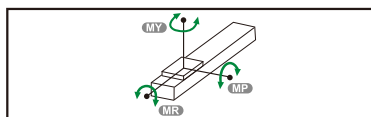
Wall Installation		A	B	C
5 Lead	5kg	51	30	300
	10kg	20	15	195
10 Lead	3kg	74	37	231
	5kg	40	20	131
20 Lead	2kg	75	48	148
	3kg	48	30	95



(Unit : mm)

Vertical Installation		A	C
5 Lead	1kg	140	140
	3kg	47	47
10 Lead	1kg	125	125
	1.5kg	83	83
20 Lead	1kg	100	100
	1.5kg	66	66

Static Loading Moment



(Unit : N.m)

MY	16
MP	20
MR	19

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 5,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

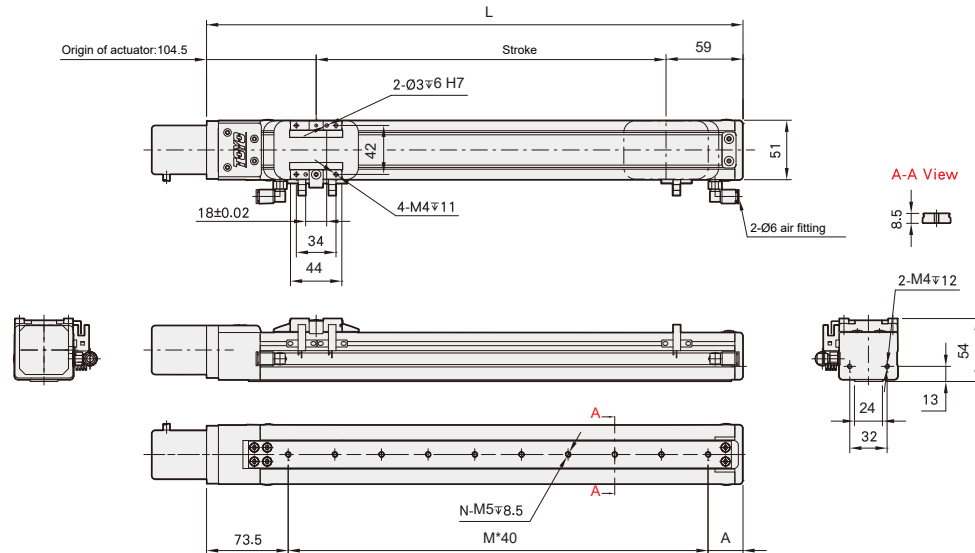
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.32	DC24V	2-phase TS3617N3E8	CD-2D34M Resolution200/400/800/1600
Oriental	0.32	Single-phase 100V	2-phase PK245-01A	UDK2112 Resolution200/400/800/1600/3200
Sanyo	0.32	DC24V	2-phase 103H5209-0440	US1D200P10 Resolution200/400/800/1600/3200

Motor Exposed / Motor Bottom Side

BC Motor Exposed

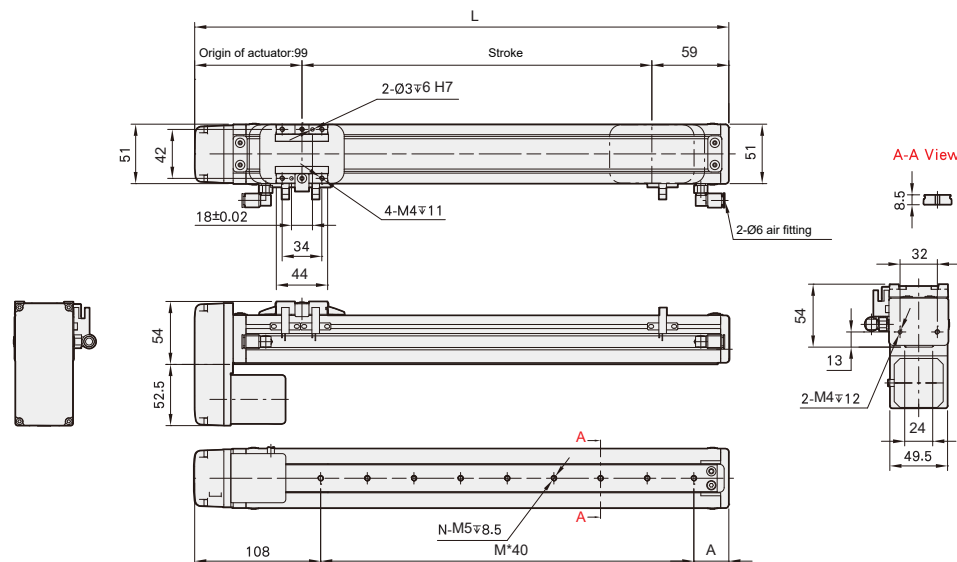
Unit : mm



有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	213.5	263.5	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

BM Motor Bottom Side

Unit : mm

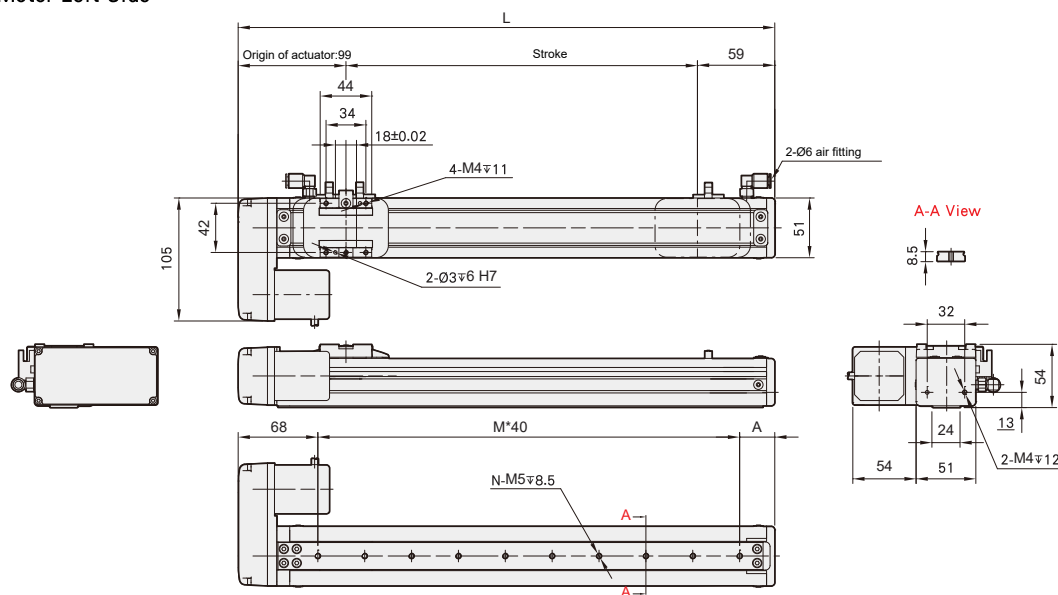


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	1	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

Motor Left Side / Motor Right Side

BL Motor Left Side

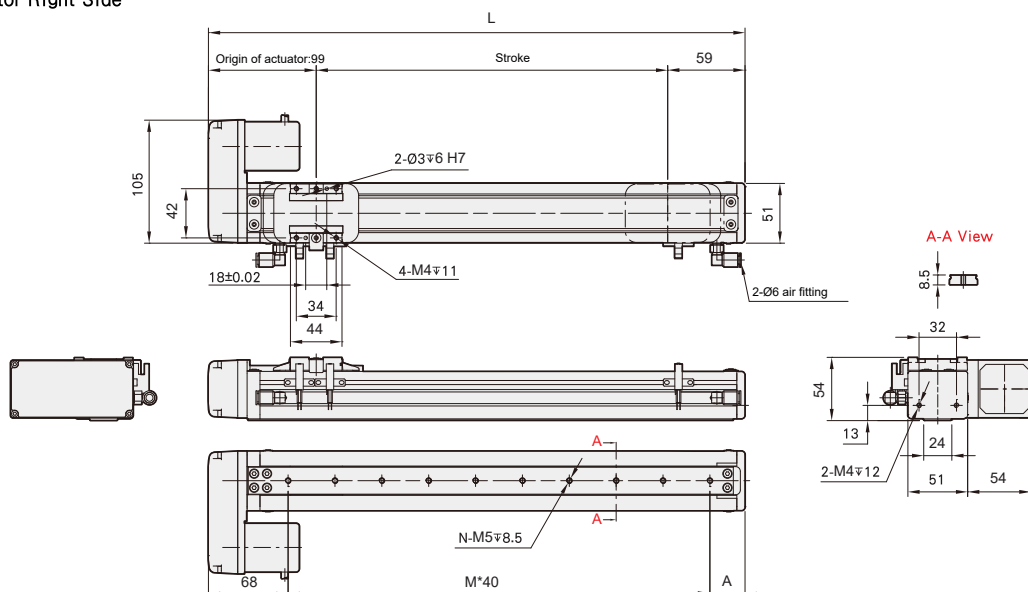
Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

BR Motor Right Side

Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum
Stroke

800mm

Maximum
Speed

1000mm/s

Motor Output

100W

Ball Screw

Ø 12mm

Linear Guide

24X8.5
-1stick

Ordering Method

WECH5M- L 5- 50 - BC- M10B- C 4-0001

Model

Stroke

50-800mm
50 mm Pitch

Special Order No.

Ball Screw Lead

02	2mm
05	5mm
10	10mm
20	20mm

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand, Power Output

M	Mitsubishi	10	100W	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	-	

※ If No Brake, No Description.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

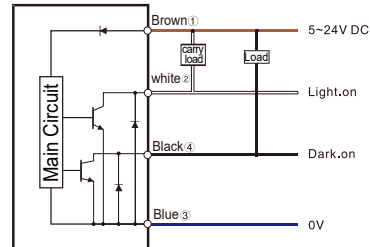
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal (kg)	10	5	3
		Vertical (kg)	3	1.5	1.5
	Rated Thrust (N)		341	170	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw $\varnothing$ (mm)		C7 ϕ 12		
	High Rigidity Linear Guide (mm)		W24XH8.5		
	Coupling (mm)		8X8		
	Home Sensor	Outside	672 (NPN/ PNP)		

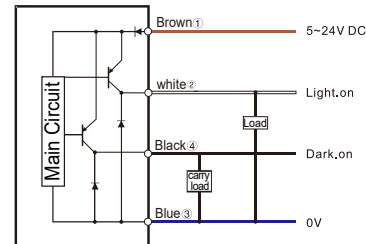
* When the stroke is over 600mm, the run-out of the ballscrew will occur. * Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.

Sensor Layout

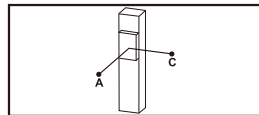
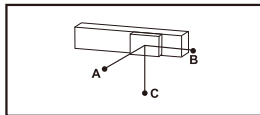
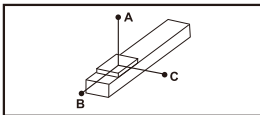
DC four-wire NPN output



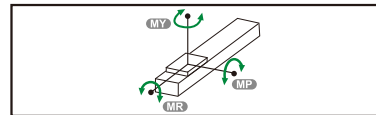
DC four-wire PNP output



Allowable Overhang



Static Loading Moment



(Unit : N.m)

		(Unit : mm)		
Horizontal installation		A	B	C
5 Lead	5kg	280	24	55
	10kg	120	10	22
10 Lead	3kg	245	40	78
	5kg	140	22	43
20 Lead	2kg	153	50	79
	3kg	99	32	50

		(Unit : mm)		
Wall Installation		A	B	C
5 Lead	5kg	51	30	300
	10kg	20	15	195
10 Lead	3kg	74	37	231
	5kg	40	20	131
20 Lead	2kg	75	48	148
	3kg	48	30	95

		(Unit : mm)	
Vertical Installation		A	C
5 Lead	1kg	140	140
	3kg	47	47
10 Lead	1kg	125	125
	1.5kg	83	83
20 Lead	1kg	100	100
	1.5kg	66	66

MY	16
MP	20
MR	19

* The torque value in the chart indicate the center of gravity.
* Operation life is 5,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

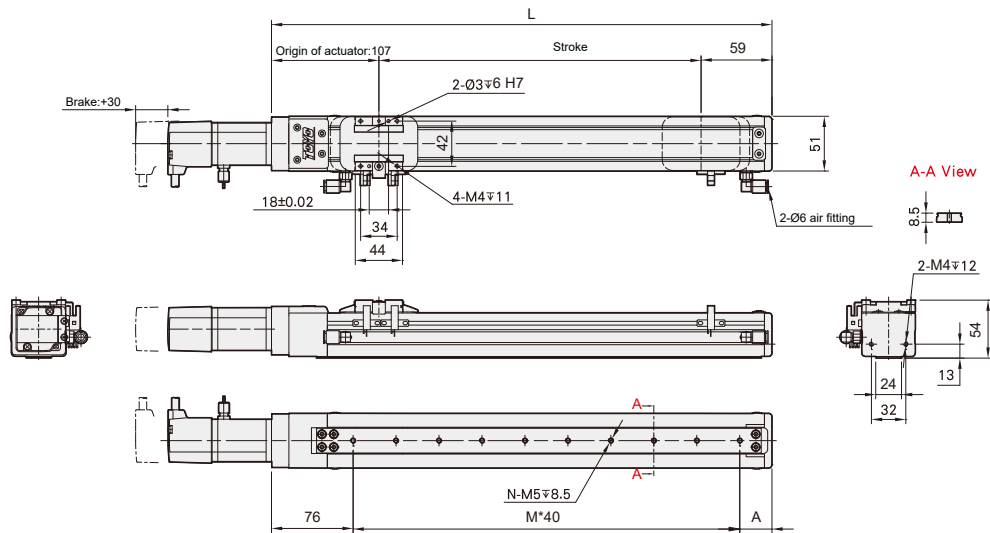
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

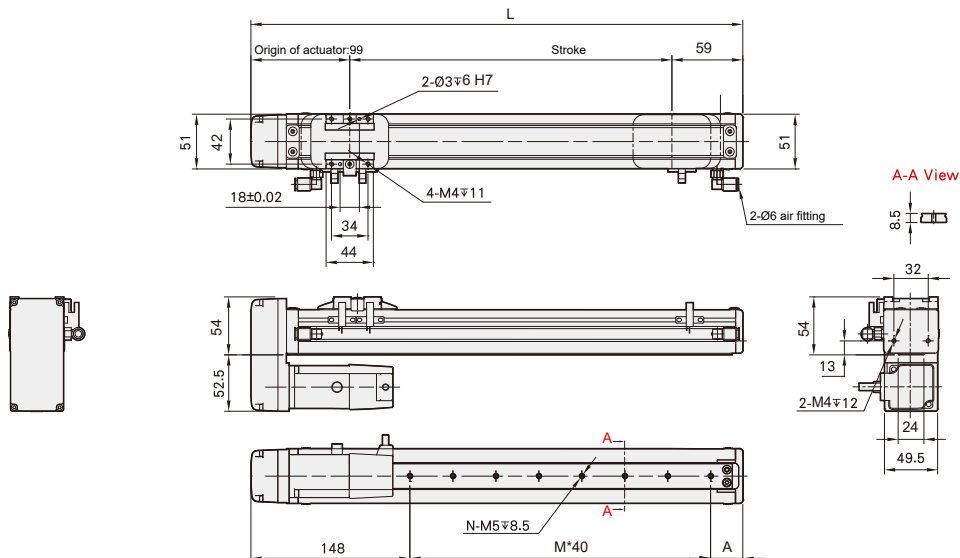
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.56	1.71	1.85	2	2.14	2.29	2.44	2.58	2.73	2.87	3.02	3.17	3.31	3.46	3.6	3.75

BM Motor Bottom Side

Unit : mm

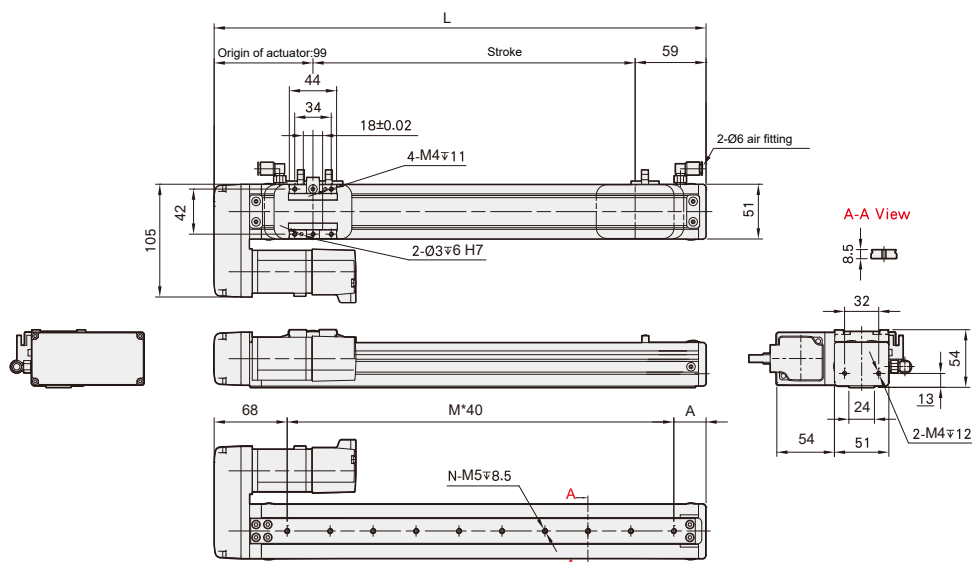


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	0	2	3	4	5	7	8	9	10	12	13	14	15	17	18	19
N	1	3	4	5	8	9	10	11	13	14	15	16	18	19	20	20
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

Motor Left Side / Motor Right Side

BL Motor Left Side

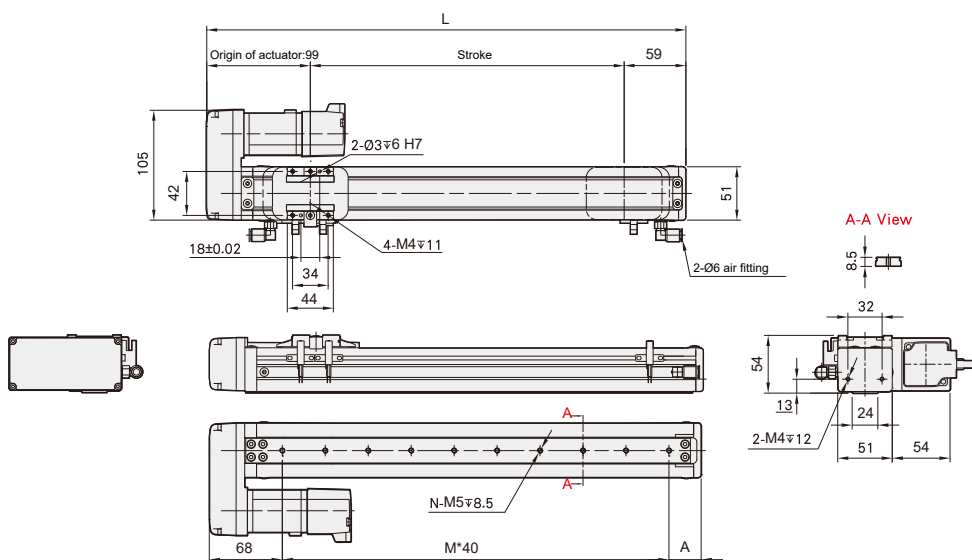
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85

BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
KG	1.66	1.81	1.95	2.1	2.24	2.39	2.54	2.68	2.83	2.97	3.12	3.27	3.41	3.56	3.7	3.85



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **166mm/s**

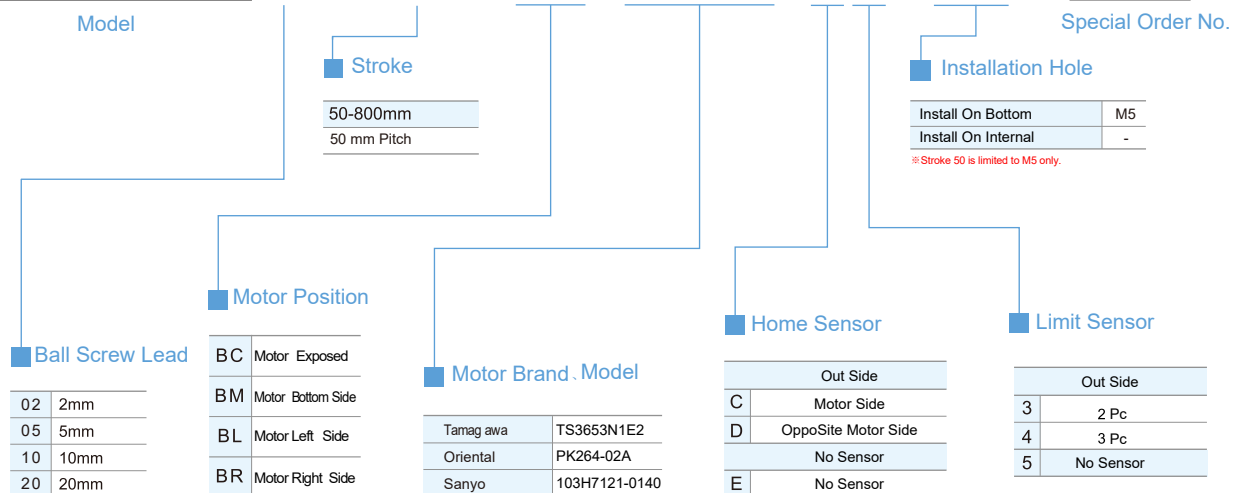
Maximum Static Torque **0.39 N.m.**

Ball Screw **Ø 12mm**

Linear Guide **42X9.5 -1stick**

Ordering Method

WECH6M- L 5- 50 - BC- 57 M- C4- M5- 0001



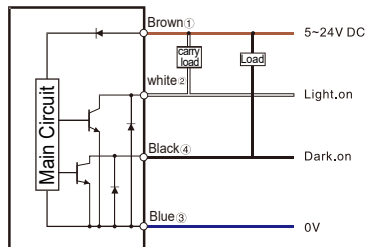
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		41	83	166
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2
	Rated Thrust (N)		490	245	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	Maximum Static Torque (N.m.)		0.39		
	Ball Screw $\varnothing$ (mm)		C7 $\varnothing$ 12		
	High Rigidity Linear Guide (mm)		W42XH9.5		
	Coupling (mm)		8X6.35		
	Home Sensor	Outside	672 (NPN/ PNP)		

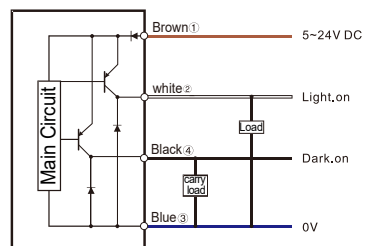
※ Acceleration and deceleration value is set 0.2 second.

Sensor Layout

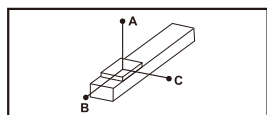
DC four-wire NPN output



DC four-wire PNP output

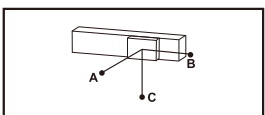


Allowable Overhang



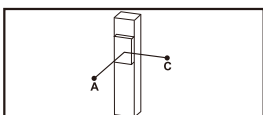
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	10kg	500	43	107
	30kg	125	10	24
	-	-	-	-
10 Lead	3kg	790	145	310
	8kg	280	49	107
	15kg	135	23	50
20 Lead	3kg	325	119	198
	6kg	156	55	93
	10kg	87	30	52



(Unit : mm)

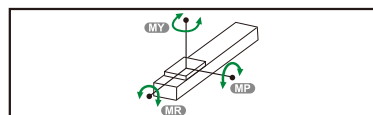
Wall Installation		A	B	C
5 Lead	15kg	63	25	304
	30kg	22	9	119
	-	-	-	-
10 Lead	3kg	304	140	776
	8kg	104	48	273
	15kg	48	22	131
20 Lead	3kg	193	116	321
	6kg	91	54	153
	10kg	50	30	86



(Unit : mm)

Vertical Installation		A	C
5 Lead	2kg	250	250
	4kg	125	125
	10kg	50	50
10 Lead	1kg	446	446
	2kg	223	223
	5kg	89	89
20 Lead	1kg	353	353
	2kg	177	177
	-	-	-

靜態容許負載慣量 Static Loading Moment



(Unit : N.m)

MY	70
MP	80
MR	75

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 5,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

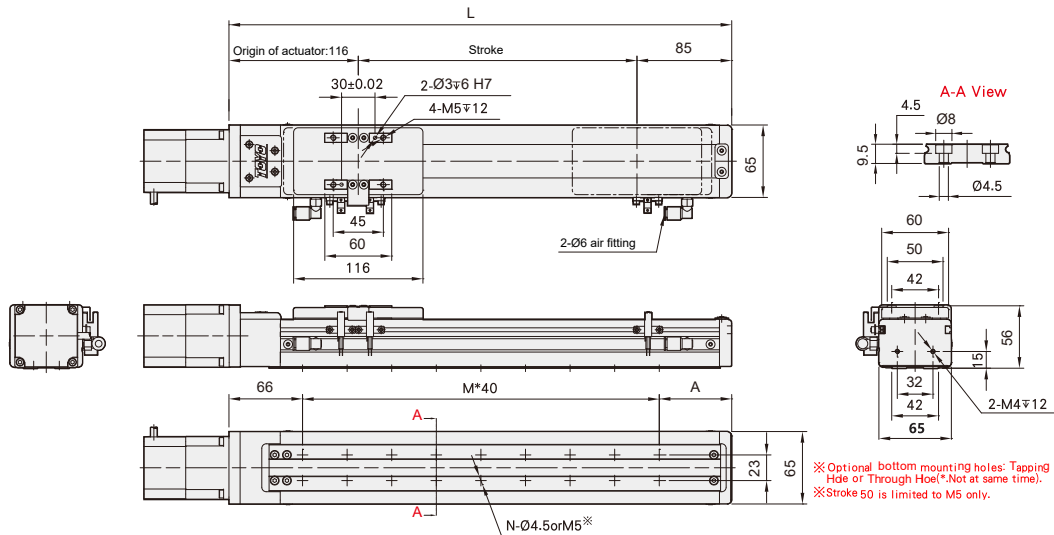
Options of Stepper Motors

Brand	Maximum Static Torque	AC-Voltage	Stepper Motor Model	Driver Model
Tamagawa	0.39	DC24V	2-phase-TS3653N1E2	CD-2D34M Resolution200/400/800/1600
Oriental	0.39	Single-phase 100V	2-phase-PK264-02A	UDK2112 Resolution200/400/800/1600/3200
Sanyo	0.39	DC24V	2-phase-103H7121-0140	US1D200P10 Resolution200/400/800/1600/3200

Motor Exposed / Motor Bottom Side

BC Motor Exposed

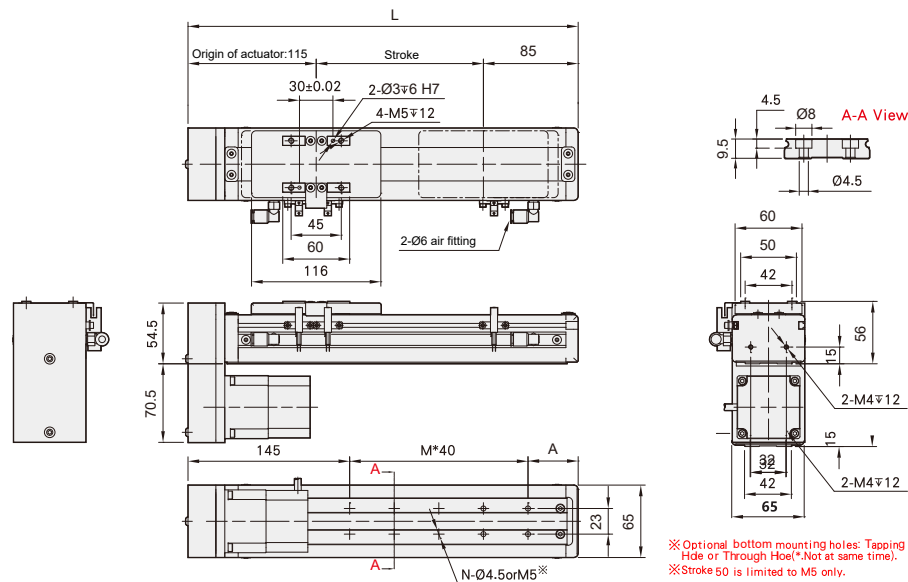
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	251	301	351	401	451	501	551	601	651	701	751	801	851	901	951	1001
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.59	2.82	3.05	3.27	3.5	3.72	3.94	4.17	4.39	4.62	4.84	5.06	5.29	5.51	5.74	5.94

BM Motor Bottom Side

Unit : mm

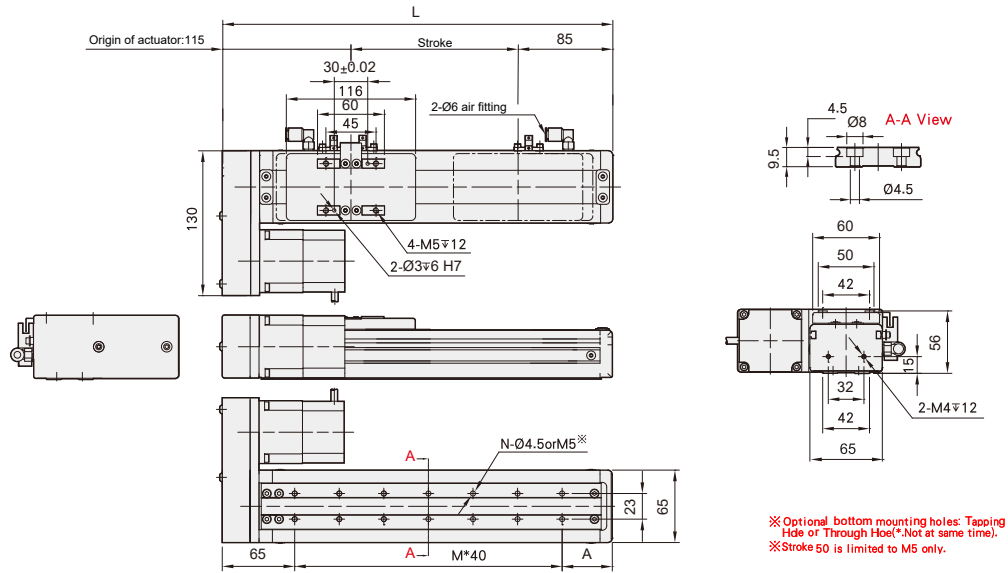


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	2	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	6	8	10	12	14	18	20	22	24	28	30	32	34	38	40	42
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.80	5.99

Motor Left Side / Motor Right Side

BL Motor Left Side

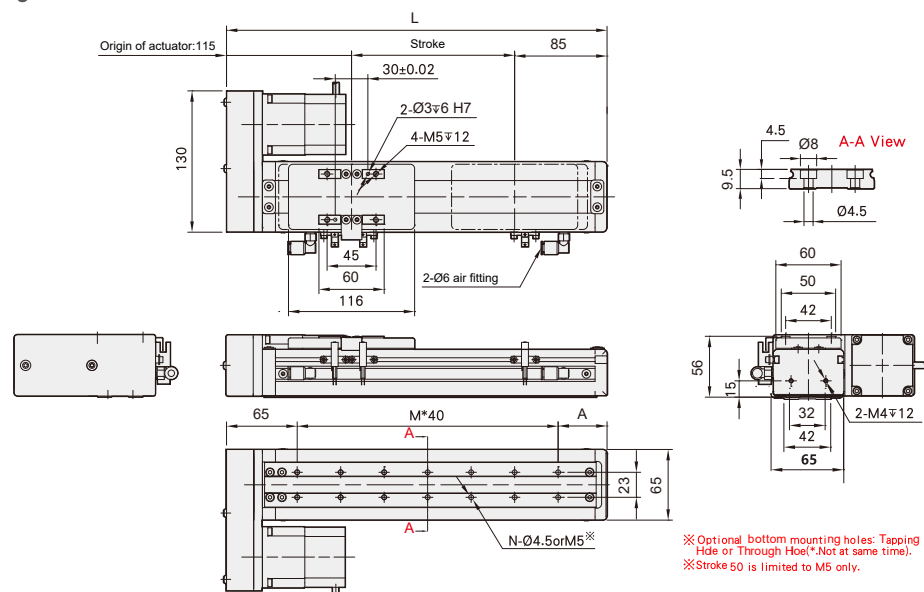
Unit: mm



有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

BR Motor Right Side

Unit: mm

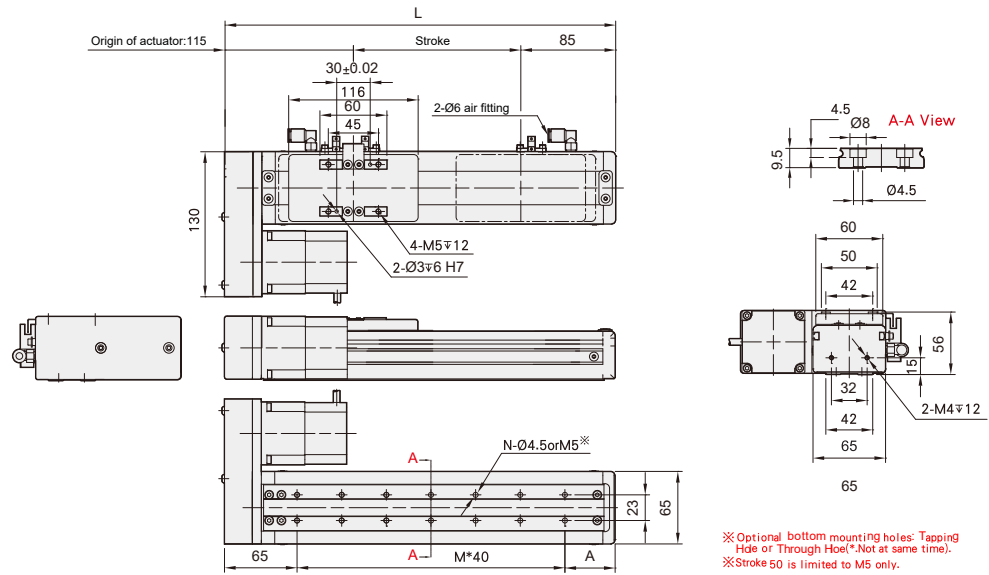


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

Motor Left Side / Motor Right Side

BL Motor Left Side

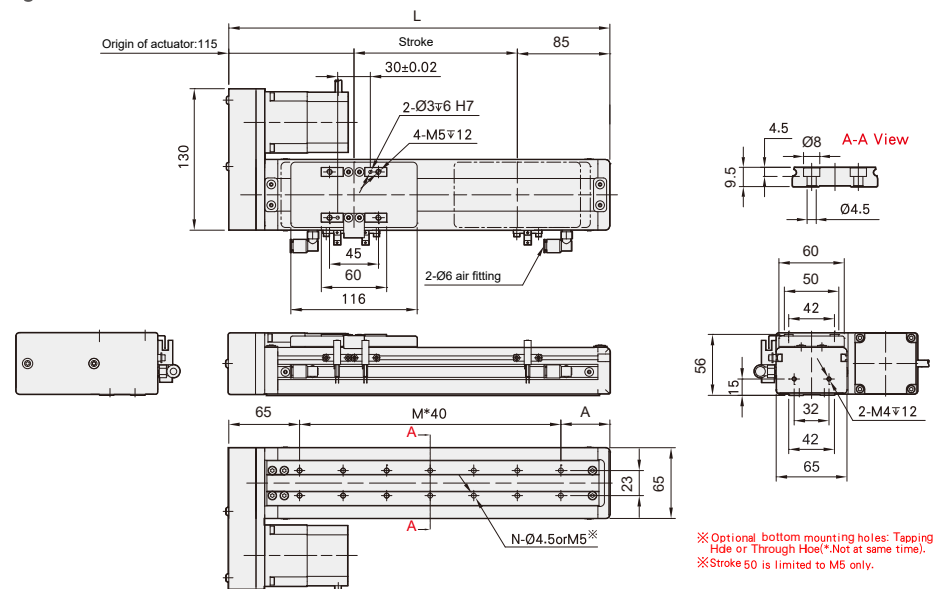
Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

BR Motor Right Side

Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **800mm**

Maximum Speed **1000mm/s**

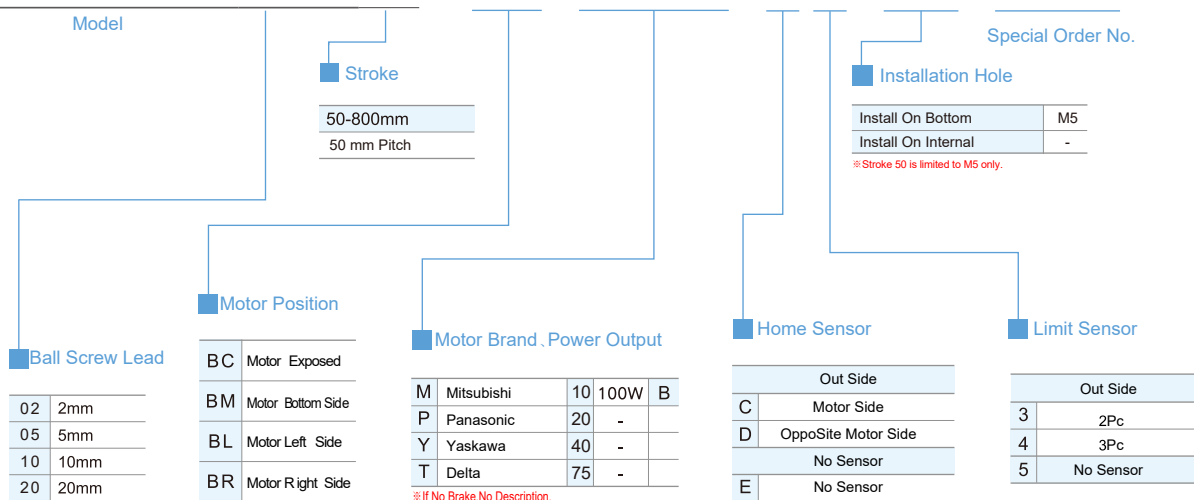
Motor Output **100W**

Ball Screw **Ø 12mm**

Linear Guide **42X9.5
-1 stick**

Ordering Method

WECH6M- L5 - 50 - BC- M10B-C 4 - M5-0001



Specification

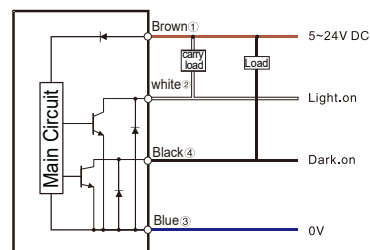
Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)		
	Ball Screw Lead (mm)		5	10	20
	Maximum Speed (mm/s)		250	500	1000
	Maximum Payload	Horizontal (kg)	30	15	10
		Vertical (kg)	10	5	2
	Rated Thrust (N)		490	245	85
	Stroke Pitch (mm)		50-800mm/50 50 mm Pitch		
Parts	AC Servo Motor Output (W)		100		
	Ball Screw $\varnothing$ (mm)		C7 ϕ 12		
	High Rigidity Linear Guide (mm)		W42XH9.5		
	Coupling (mm)		8X8		
	Home Sensor	Outside	672 (NPN / PNP)		

※When the stroke is over 600mm, the run-out of the ballscrew will occur.
recommend to low down the working speed under this circumstances.

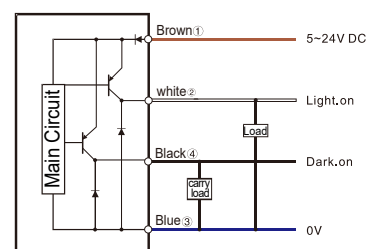
※We Acceleration and deceleration value is set 0.2 second.

Sensor Layout

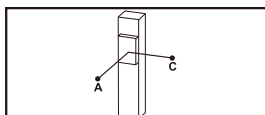
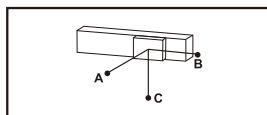
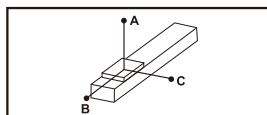
DC four-wire NPN output



DC four-wire PNP output



Allowable Overhang



(Unit : mm)

Horizontal installation		A	B	C
5 Lead	10kg	500	43	107
	30kg	125	10	24
10 Lead	3kg	790	145	310
	8kg	280	49	107
	15kg	135	23	50
20 Lead	3kg	325	119	198
	6kg	156	55	93
	10kg	87	30	52

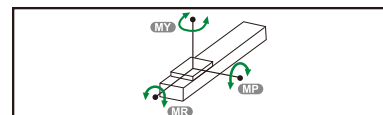
(Unit : mm)

Wall Installation		A	B	C
5 Lead	15kg	63	25	304
	30kg	22	9	119
10 Lead	3kg	304	140	776
	8kg	104	48	273
	15kg	48	22	131
20 Lead	3kg	193	116	321
	6kg	91	54	153
	10kg	50	30	86

(Unit : mm)

Vertical Installation		A	C
5 Lead	2kg	250	250
	4kg	125	125
10 Lead	10kg	50	50
	1kg	446	446
	2kg	223	223
20 Lead	5kg	89	89
	1kg	353	353
	2kg	177	177
	-	-	-

靜態容許負載慣量 Static Loading Moment



(Unit : N.m)

MY	70
MP	80
MR	75

※The torque value in the chart indicate the center of gravity.
※Operation life is 5,000km when the product is using under the specified conditions.
※Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

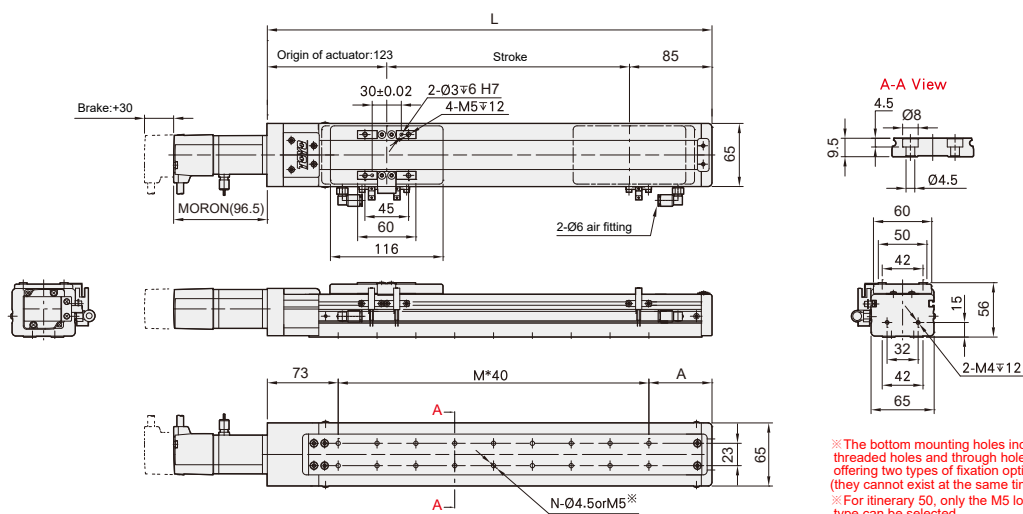
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

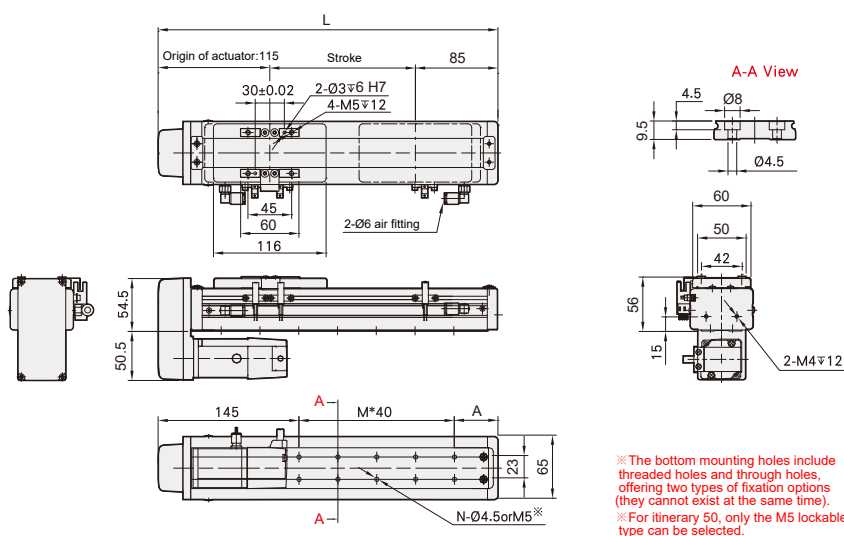
Unit: mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	258	308	358	408	458	508	558	608	658	708	758	808	858	908	958	1008
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.59	2.82	3.05	3.27	3.5	3.72	3.94	4.17	4.39	4.62	4.84	5.06	5.29	5.51	5.74	5.94

BM Motor Bottom Side

Unit: mm

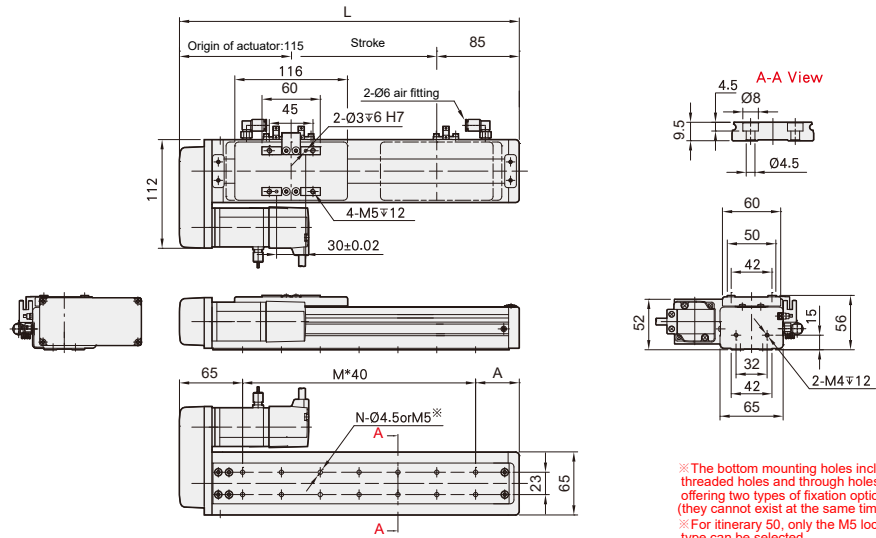


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	2	3	4	5	6	8	9	10	11	13	14	15	16	18	19	20
N	6	8	10	12	14	18	20	22	24	28	30	32	34	38	40	42
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

Motor Left Side / Motor Right Side

BL Motor Left Side

Unit: mm

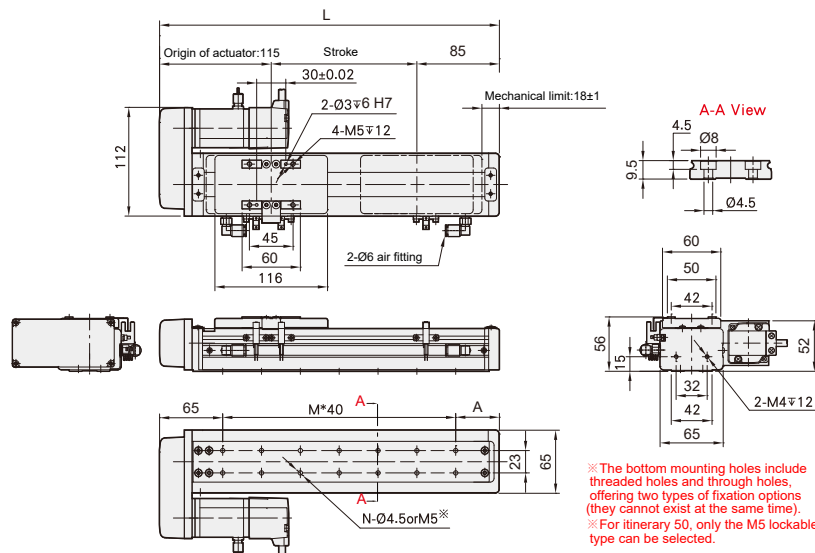


※ The bottom mounting holes include threaded holes and through holes, offering two types of fixation options (they cannot exist at the same time).
 ※ For itinerary 50, only the M5 lockable type can be selected.

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99

BR Motor Right Side

Unit: mm



※ The bottom mounting holes include threaded holes and through holes, offering two types of fixation options (they cannot exist at the same time).
 ※ For itinerary 50, only the M5 lockable type can be selected.

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	65	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55
M	4	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
N	10	12	14	16	18	22	24	26	28	32	34	36	38	42	44	46
KG	2.63	2.86	3.09	3.31	3.54	3.77	3.99	4.22	4.44	4.67	4.9	5.12	5.35	5.57	5.8	5.99



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **100W**

Ball Screw **Ø 16mm**

Linear Guide **20X18-1支**

Ordering Method

WECH10 - L 5 - 50 - M - M10B - C 4 - 0001

Model

Special Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand, Power Output

M	Mitsubishi	10	100W	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	-	

※If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

※B2 is unavailable while ECH10.

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

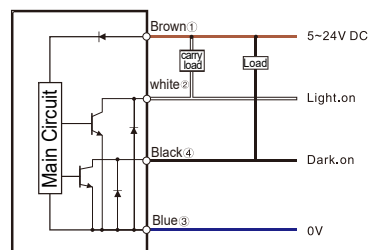
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		341	170	85	53
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		100			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W20XH18			
	Coupling (mm)		10X8			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

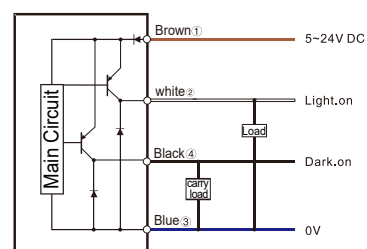
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. ※ Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.

Sensor Layout

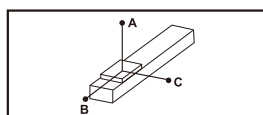
DC four-wire NPN output



DC four-wire PNP output

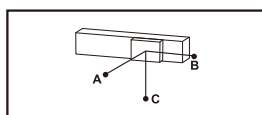


Allowable Overhang



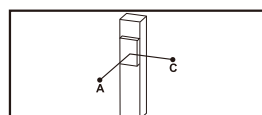
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	30kg	547	42
	40kg	391	29
	50kg	298	21
10 Lead	15kg	521	84
	25kg	298	47
	30kg	242	37
20 Lead	5kg	675	224
	10kg	330	107
	18kg	175	55
32 Lead	3kg	486	259
	5kg	288	152
	-	-	-



(Unit : mm)

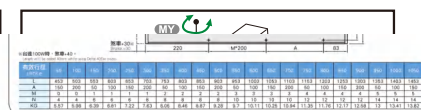
Wall Installation	A	B	C
5 Lead	25kg	52	53
	35kg	35	35
	50kg	21	22
10 Lead	10kg	124	131
	20kg	58	61
	30kg	35	37
20 Lead	6kg	160	185
	12kg	76	88
	18kg	48	55
32 Lead	2kg	300	393
	5kg	116	152
	-	-	-



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	310
	8kg	192
	12kg	129
10 Lead	4kg	344
	8kg	172
	-	-
20 Lead	2kg	546
	3kg	364
	-	-

Static Loading Moment



(Unit : N.m)

MY	110
MP	110
MR	120

※ The torque value in the chart indicate the center of gravity.
※ Operation life is 10,000km when the product is using under the specified conditions.
※ Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

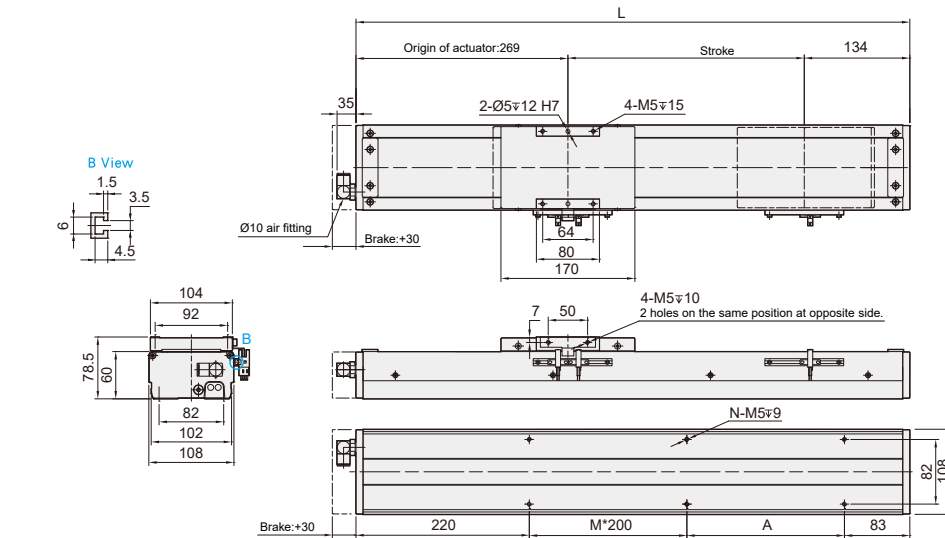
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

Unit: mm

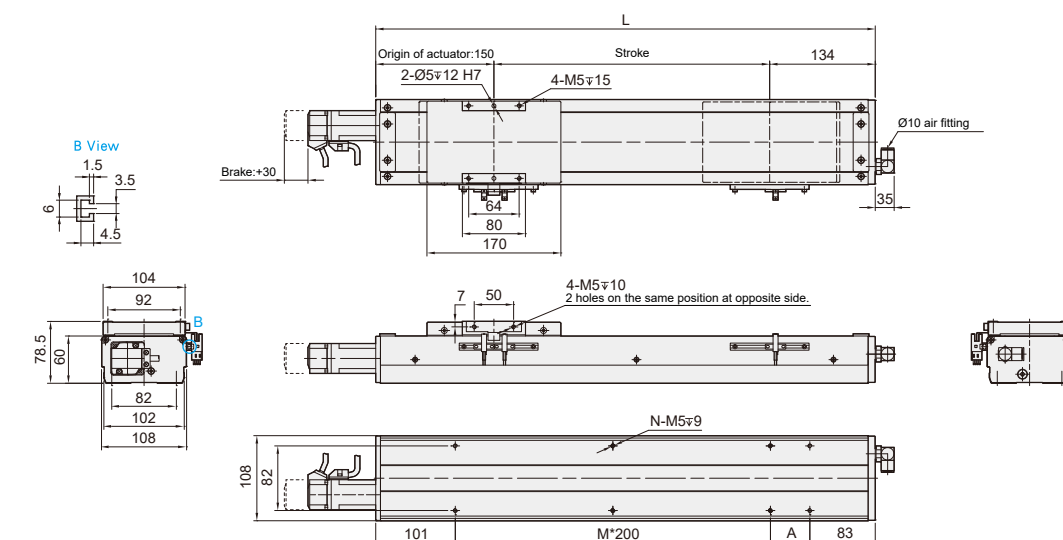


※Length will be added 40mm while using Delta 400w motor.

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.57	5.98	6.39	6.81	7.22	7.63	8.05	8.46	8.87	9.28	9.7	10.11	10.25	10.94	11.35	11.76	12.17	12.58	13	13.41	13.82

BC Motor Exposed

Unit: mm

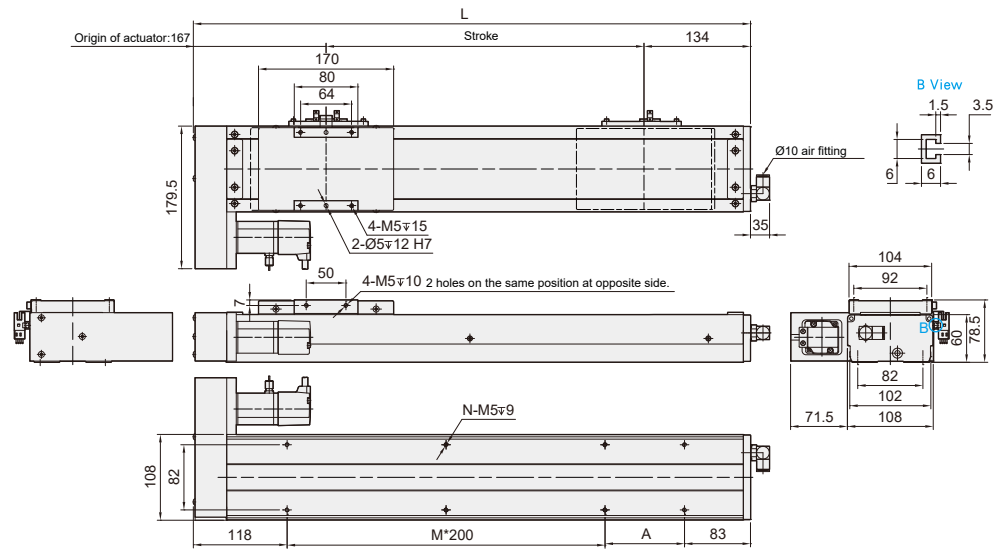


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	334	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.07	5.49	5.91	6.33	6.75	7.17	7.59	8.02	8.44	8.86	9.28	9.7	10.12	10.54	10.96	11.38	11.8	12.22	12.64	13.06	13.48

Motor Left Side / Motor Right Side

BL Motor Left Side

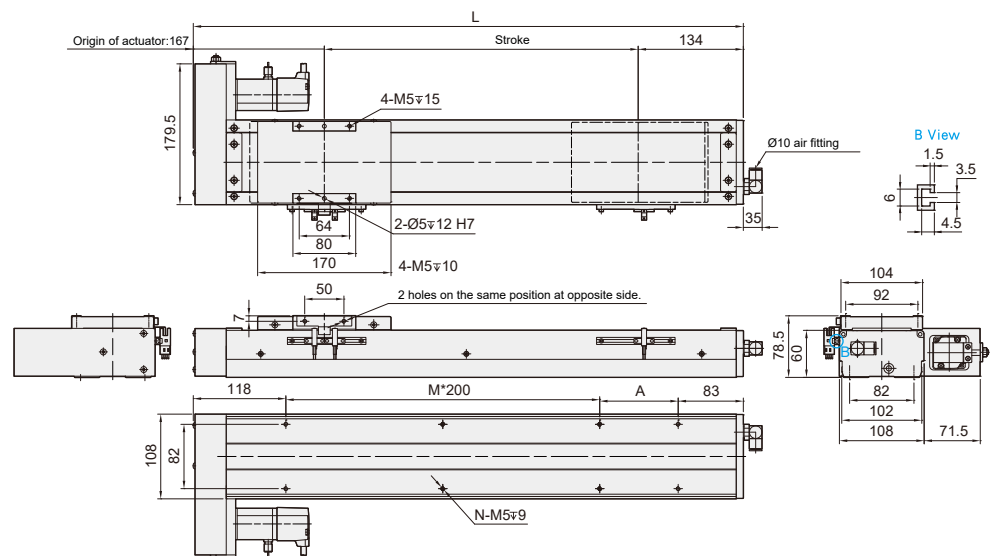
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	351	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.49	5.9	6.31	6.72	7.13	7.55	7.96	8.37	8.78	9.19	9.61	10.02	10.43	10.84	11.25	11.67	12.08	12.49	12.91	13.32	13.73

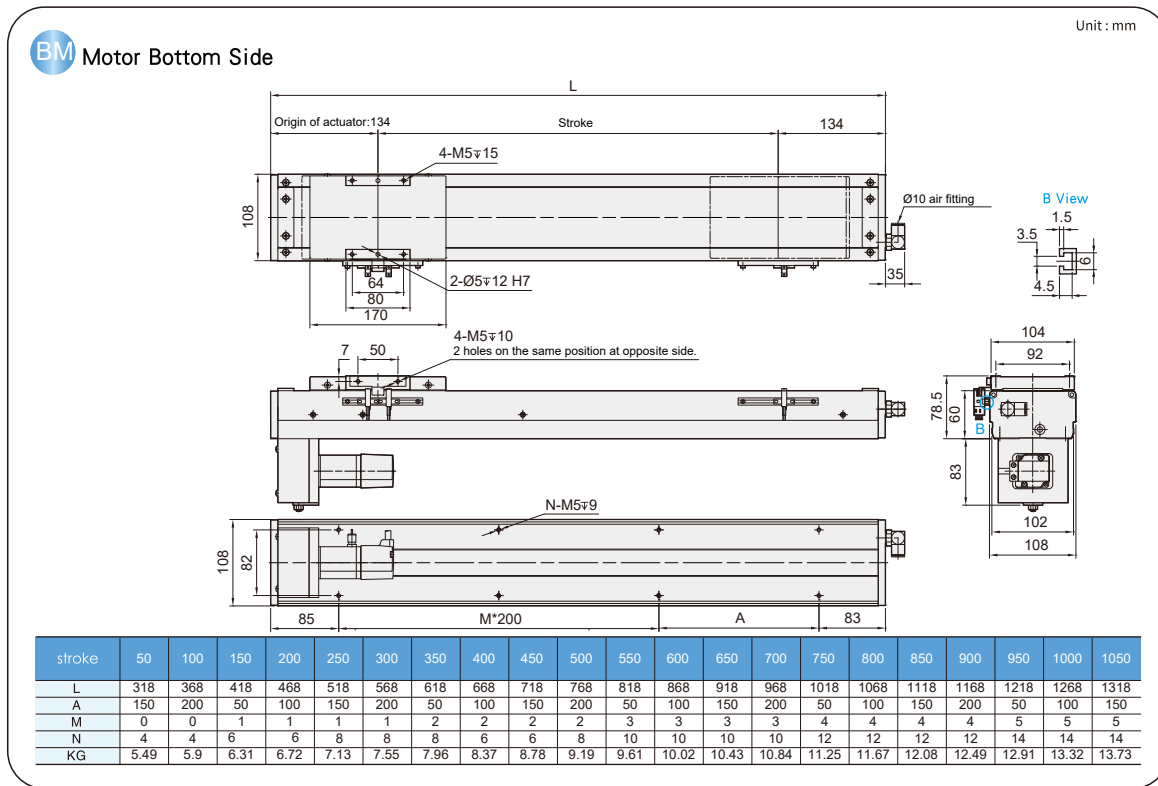
BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	351	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.49	5.9	6.31	6.72	7.13	7.55	7.96	8.37	8.78	9.19	9.61	10.02	10.43	10.84	11.25	11.67	12.08	12.49	12.91	13.32	13.73

Motor Bottom Side





The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **200W**

Ball Screw **Ø 16mm**

Linear Guide **20X18
-1stick**

Ordering Method

WECH10-L 5 - 50 - BC - M20B - C 4 - 0001

Model

Special Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand · Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

※If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

※B2 is unavailable while ECH10.

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

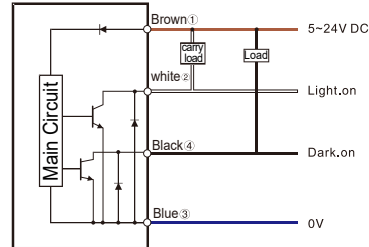
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W20XH18			
	Coupling (mm)		10X14/11(Note 1)			
	Home Sensor	Outside	672 (NPN/ PNP)			

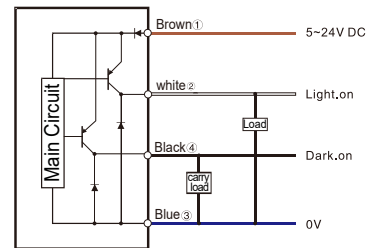
※When the stroke is over 750mm, the run-out of the ballscrew will occur. ※Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.
(Note 1) Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

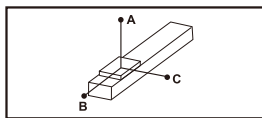
DC four-wire NPN output



DC four-wire PNP output

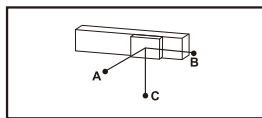


Allowable Overhang



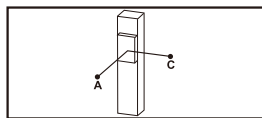
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	30kg	547	42
	40kg	391	29
	50kg	298	22
10 Lead	15kg	521	84
	25kg	298	47
	30kg	242	37
20 Lead	5kg	675	224
	10kg	330	107
	18kg	175	55
32 Lead	3kg	486	259
	5kg	288	152
	-	-	-



(Unit : mm)

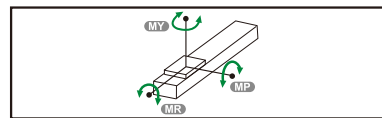
Wall Installation	A	B	C
5 Lead	25kg	52	53
	35kg	35	35
	50kg	21	22
10 Lead	10kg	124	131
	20kg	58	61
	30kg	35	37
20 Lead	6kg	160	185
	12kg	76	88
	18kg	48	55
32 Lead	2kg	300	393
	5kg	116	152
	-	-	-



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	310
	8kg	192
	12kg	129
10 Lead	4kg	344
	8kg	172
	-	-
20 Lead	2kg	546
	3kg	364
	-	-

Static Loading Moment



(Unit : N.m)

MY	110
MP	110
MR	120

※The torque value in the chart indicate the center of gravity.
※Operation life is 10,000km when the product is using under the specified conditions.
※Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

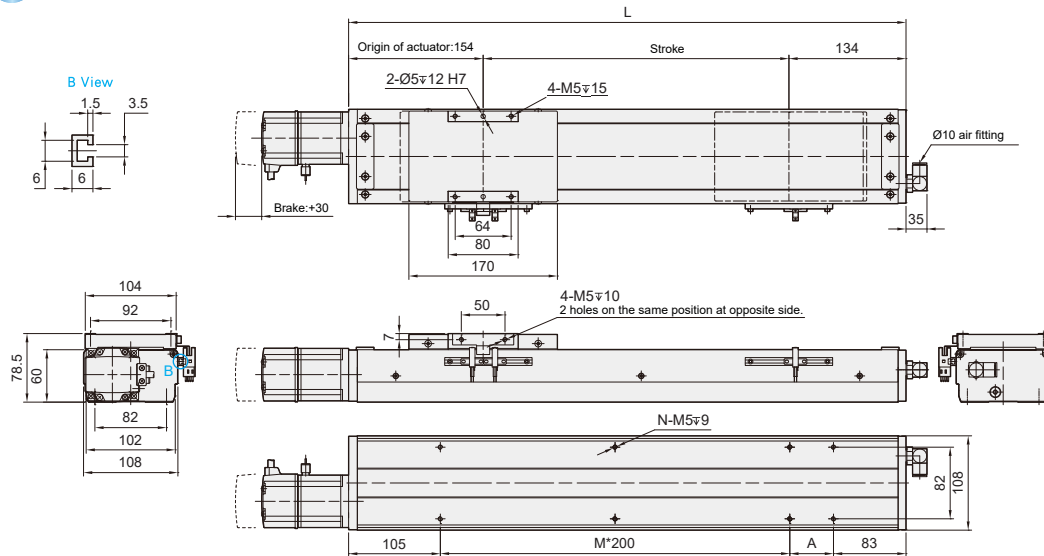
Suitable Moter Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022P1S	MADDT1207
		With Brake (Vertical Type)	200	220	MHMD022P1T	MADDT1207
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

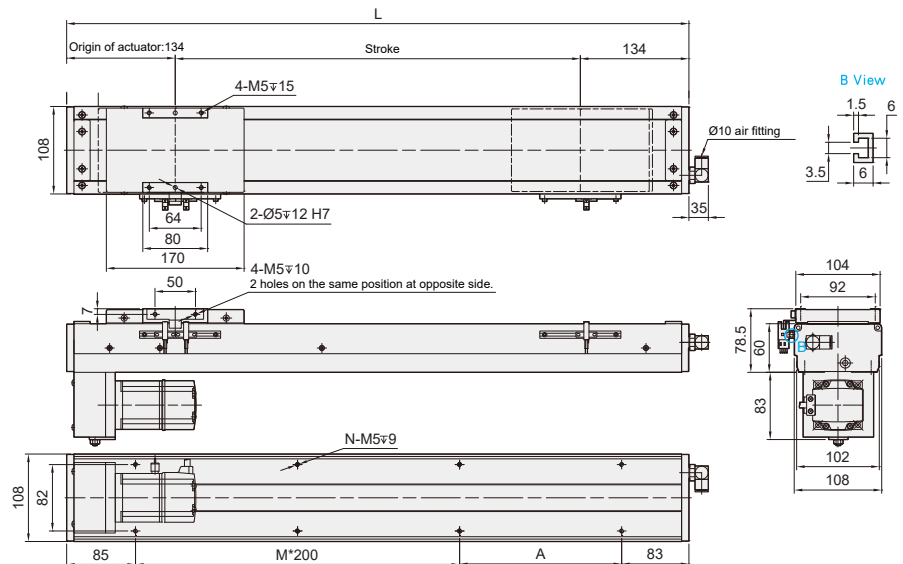
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.67	6.09	6.51	6.93	7.35	7.77	8.19	8.61	9.03	9.45	9.87	10.29	10.71	11.13	11.55	11.97	12.39	12.81	13.23	13.65	14.07

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.99	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.91	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19

BL Motor Left Side

Technical drawing of the M200 series pneumatic cylinder, showing front, side, and end views with dimensions and labels.

Front View (Top):

- Overall length: L
- Stroke: 134
- Origin of actuator: 167
- Mounting bracket dimensions: 170 (total), 80 (inner), 64 (inner)
- Height: 179.5
- Port: $\varnothing 10$ air fitting
- Mounting holes: 4-M5 $\pm$ 15, 2- $\varnothing$ 5 $\pm$ 12 H7
- Distance from mounting bracket to end: 50

Side View (Middle):

- Mounting holes: 4-M5 $\pm$ 10 2 holes on the same position at opposite side.

End View (Bottom):

- Mounting holes: N-M5 $\pm$ 9
- Height: 108, 82
- Mounting bracket width: 118
- Body diameter: M $\varnothing$ 200
- Distance from mounting bracket to end: A
- End flange width: 83

End View (Right):

- Overall width: 104
- Mounting bracket width: 92
- Port diameter: 1.5
- Port offset: 3.5
- Port offset: 6
- Port offset: 6
- Port offset: 78.5
- Port offset: 60
- Port offset: 82
- Port offset: 102
- Port offset: 108
- Port offset: 71.5

B View (Right):

- Port diameter: 1.5
- Port offset: 3.5
- Port offset: 6
- Port offset: 6
- Port offset: 78.5
- Port offset: 60
- Port offset: 82
- Port offset: 102
- Port offset: 108
- Port offset: 71.5

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	351	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.99	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.91	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19

BR Motor Right Side

Technical drawing of the M200 actuator, showing front, side, and end views with dimensions and labels.

Front View (Top):

- Overall length: L
- Origin of actuator: 167
- Stroke: 134
- Height: 179.5
- Mounting holes: 4-M5 $\varnothing$ 15
- Internal features: 2- $\varnothing$ 5 $\varnothing$ 12 H7, 4-M5 $\varnothing$ 10
- End fitting: $\varnothing$ 10 air fitting
- End dimensions: 36, 95

Side View (Bottom):

- Overall length: M^*200
- Height: 108
- Mounting holes: 4-M5 $\varnothing$ 9
- Internal features: 2 holes on the same position at opposite side.
- End dimensions: 118, 83

End View (Right):

- Overall width: 104
- Mounting holes: 4-M5 $\varnothing$ 15
- Internal features: 2- $\varnothing$ 5 $\varnothing$ 12 H7
- End dimensions: 92, 78.5, 60, 82, 102, 108, 71.5

Detail View (Top Right):

- Mounting hole: 4-M5 $\varnothing$ 15
- Internal feature: 2- $\varnothing$ 5 $\varnothing$ 12 H7
- End fitting: $\varnothing$ 10 air fitting
- End dimensions: 1.5, 3.5, 6

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	351	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	5
N	4	4	6	6	6	6	8	8	8	8	8	8	10	10	10	12	12	12	14	14	14
KG	5.99	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.9	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

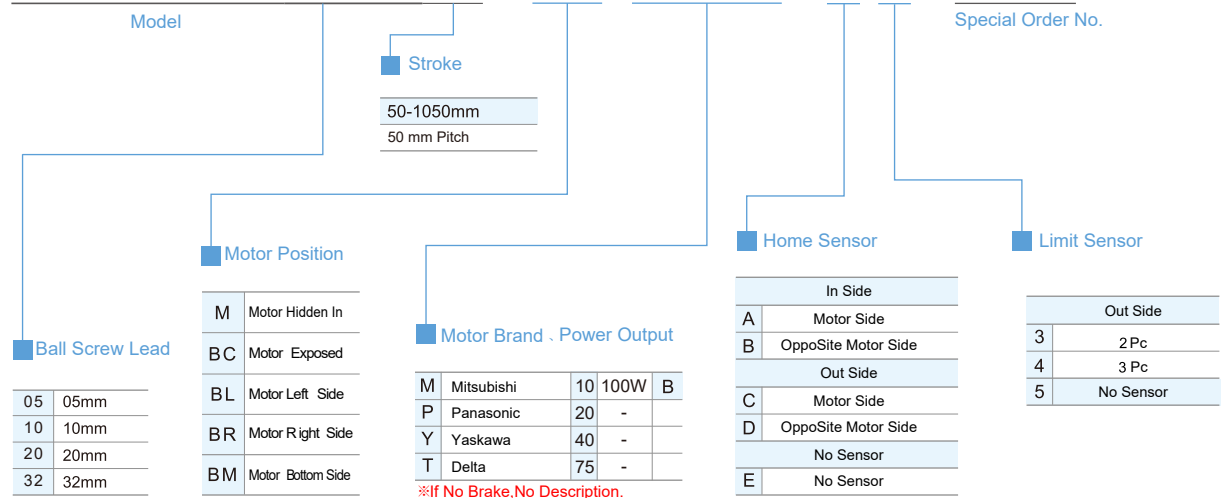
Motor Output **100W**

Ball Screw **Ø 16mm**

Linear Guide **12X7.5 -2stick**

Ordering Method

WECH12 - L 5 - 50 - M - M10B - C 4 - 0001



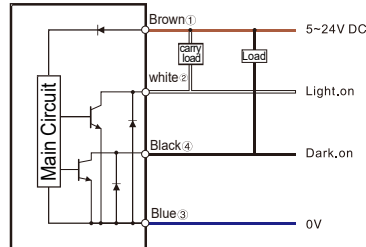
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		341	170	85	53
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		100			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W12XH7.5			
	Coupling (mm)		10X8			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

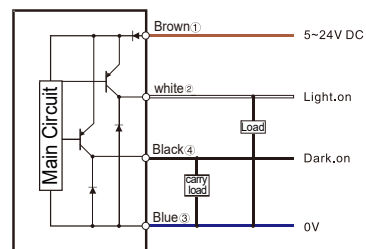
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. ※ Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.

Sensor Layout

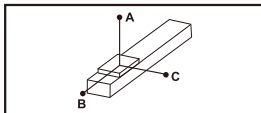
DC four-wire NPN output



DC four-wire PNP output

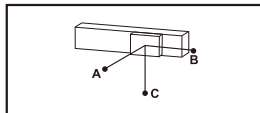


Allowable Overhang



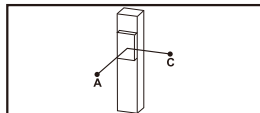
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	30kg	882	65
	40kg	606	43
	50kg	437	29
10 Lead	15kg	875	138
	25kg	485	73
	30kg	386	56
20 Lead	5kg	1160	384
	10kg	561	180
	18kg	288	88
32 Lead	3kg	822	444
	5kg	492	255
	-	-	-



(Unit : mm)

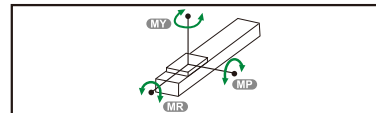
Wall Installation	A	B	C
5 Lead	25kg	100	84
	35kg	63	52
	50kg	35	29
10 Lead	10kg	250	221
	20kg	110	97
	30kg	64	56
20 Lead	6kg	317	316
	12kg	147	144
	18kg	89	88
32 Lead	2kg	591	682
	5kg	224	255
	-	-	-



(Unit : mm)

Vertical Installation	A	C
5 Lead	5kg	544
	8kg	341
	12kg	227
10 Lead	4kg	606
	8kg	303
	-	-
20 Lead	2kg	961
	3kg	639
	-	-

Static Loading Moment



(Unit : N.m)

MY	150
MP	150
MR	130

※ The torque value in the chart indicate the center of gravity.
※ Operation life is 10,000km when the product is using under the specified conditions.
※ Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

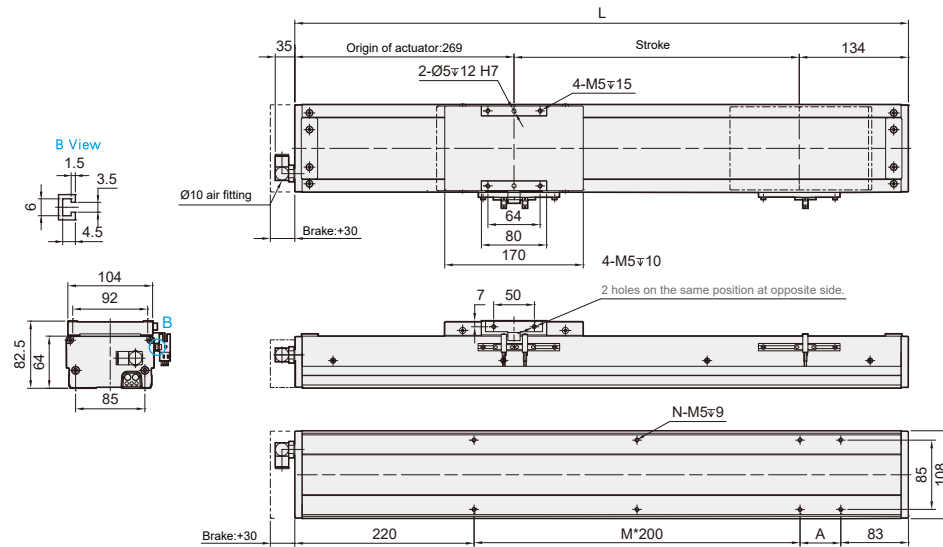
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

Motor Hidden In / Motor Exposed

M Motor Hidden In

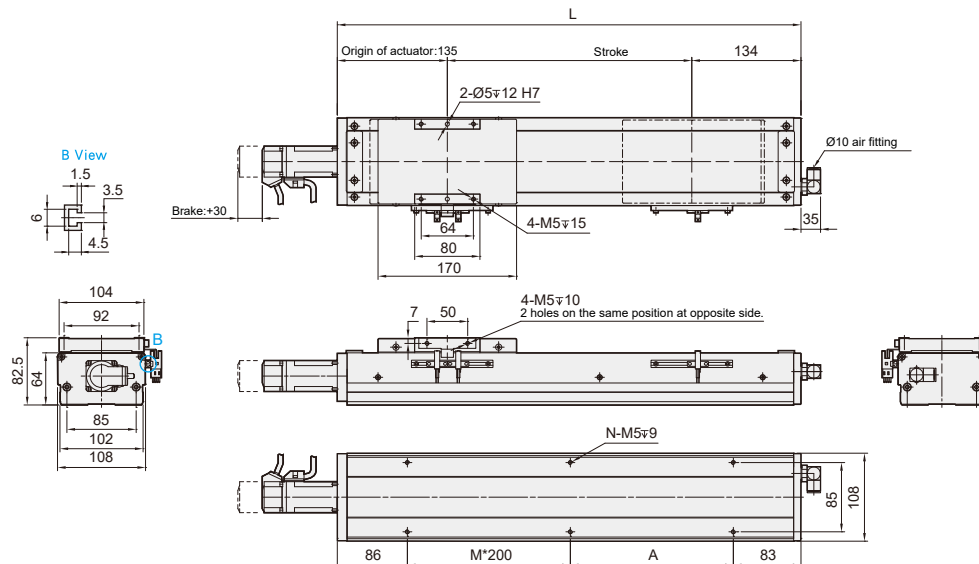
Unit : mm



有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	3	2	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.32	6.75	7.18	7.6	8.03	8.45	8.88	9.3	9.73	10.15	10.58	11	11.43	11.85	12.28	12.7	13.13	13.55	13.98	14.4	14.83

BC Motor Exposed

Unit : mm

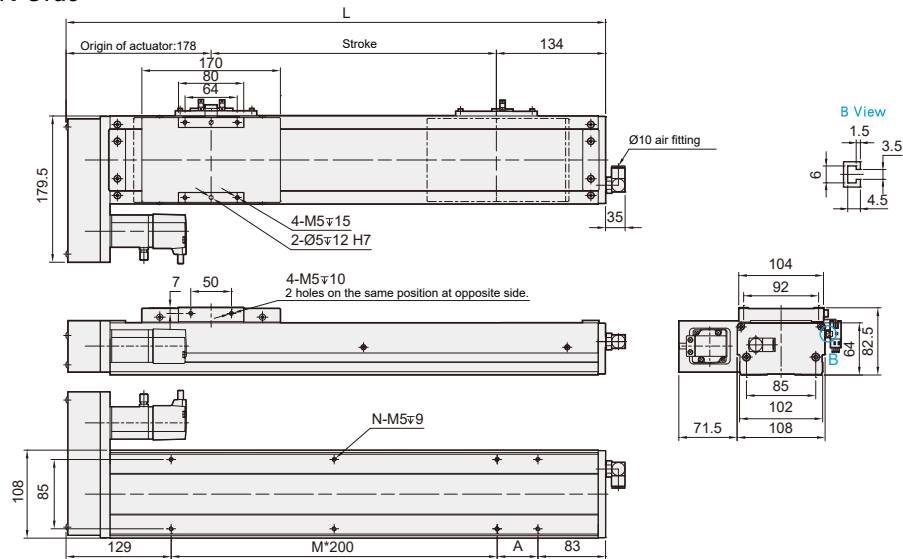


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.59	6.02	6.45	6.87	7.3	7.72	8.15	8.57	9	9.42	9.85	10.27	10.7	11.12	11.55	11.97	12.4	12.82	13.25	13.67	14.1

Motor Left Side / Motor Right Side

BL Motor Left Side

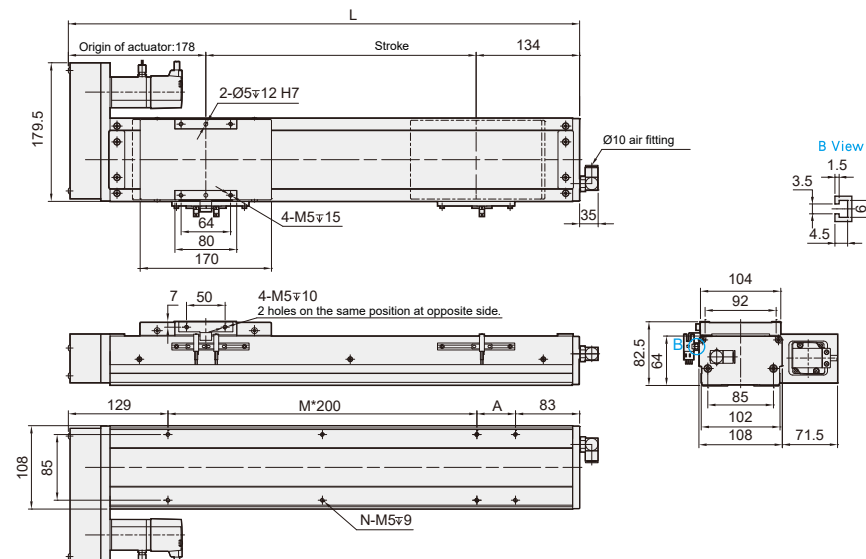
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.42	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93

BR Motor Right Side

Unit : mm

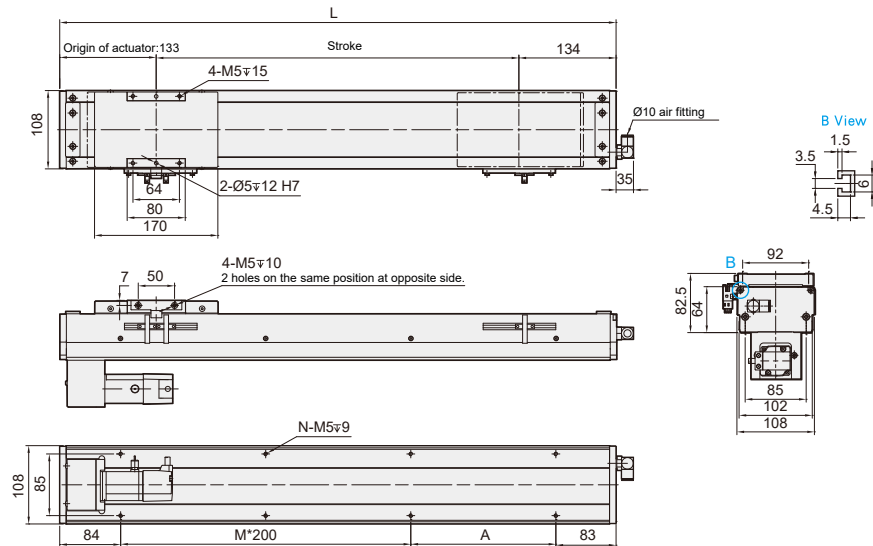


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.42	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93

Motor Bottom Side

BM Motor Bottom Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.42	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **200W**

Ball Screw **Ø 16mm**

Linear Guide **12X7.5-2支**

Ordering Method

WECH12 - L 5 - 50 - BC - M20B - C 4 - 0001

Model

Stroke

50-1050mm
50 mm Pitch

Special Order No.

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Side
BR	Motor Right Side

Motor Brand, Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

※If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

Out Side	
3	2Pc
4	3Pc
5	No Sensor

Ball Screw Lead	
05	05mm
10	10mm
20	20mm
32	32mm

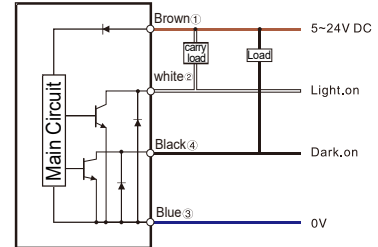
Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw ϕ (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W12XH7.5			
	Coupling (mm)		10X14/11 (Note 1)			
	Home Sensor	Outside	672 (NPN/ PNP)			

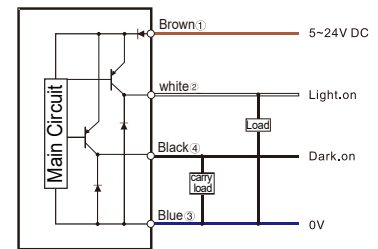
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. ※ Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.
(Note 1) Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

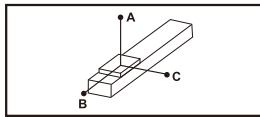
DC four-wire NPN output



DC four-wire PNP output

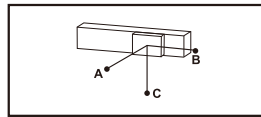


Allowable Overhang



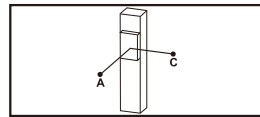
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
10 Lead	15kg	875	138	157
	25kg	485	73	83
	30kg	386	56	64
20 Lead	5kg	1160	384	386
	10kg	561	180	181
	18kg	288	88	89
32 Lead	3kg	822	444	385
	5kg	492	255	224
	-	-	-	-



(Unit : mm)

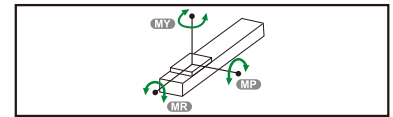
Wall Installation		A	B	C
5 Lead	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
10 Lead	10kg	250	221	1311
	20kg	110	97	633
	30kg	64	56	385
20 Lead	6kg	317	316	955
	12kg	147	144	455
	18kg	89	88	288
32 Lead	2kg	591	682	1256
	5kg	224	255	488
	-	-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	5kg	544	544
	8kg	341	341
	12kg	227	227
10 Lead	4kg	606	606
	8kg	303	303
	-	-	-
20 Lead	2kg	961	961
	3kg	639	639
	-	-	-

Static Loading Moment



(Unit : N.m)

MY	150
MP	150
MR	130

※ The torque value in the chart indicate the center of gravity.
※ Operation life is 10,000km when the product is using under the specified conditions.
※ Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

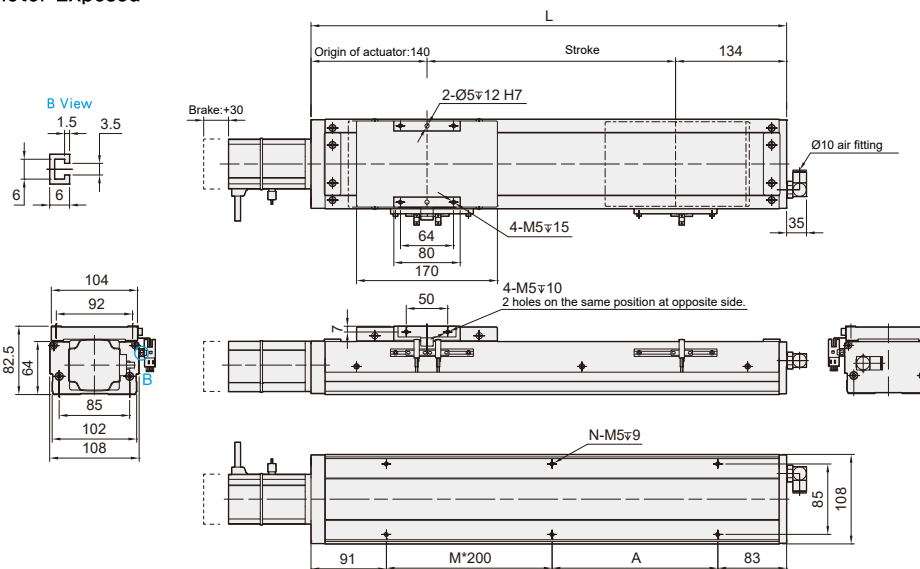
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022P1S	MADDT1207
		With Brake (Vertical Type)	200	220	MHMD022P1T	MADDT1207
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

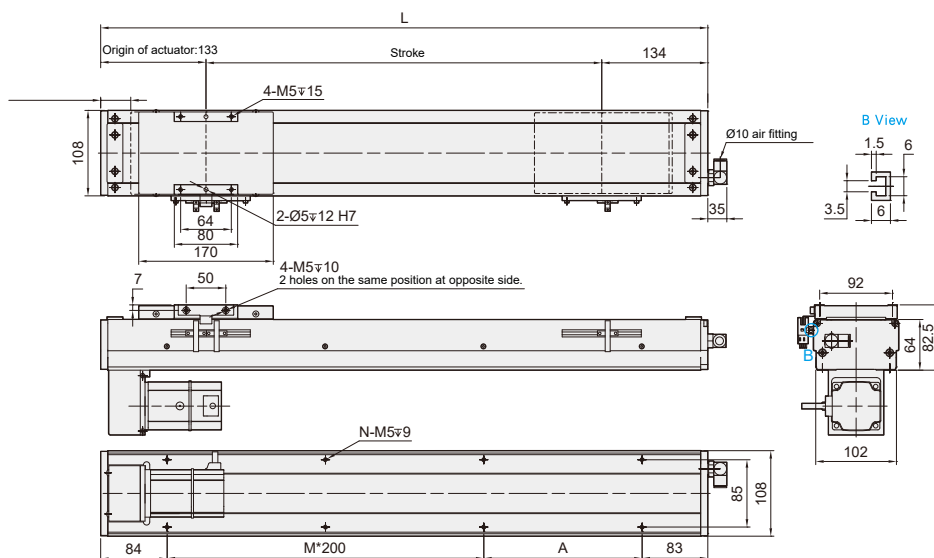
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.19	6.62	7.05	7.48	7.91	8.43	8.77	9.2	9.63	10.06	10.49	10.92	11.35	11.78	12.21	12.64	13.07	13.5	13.93	14.36	14.79

BM Motor Bottom Side

Unit : mm

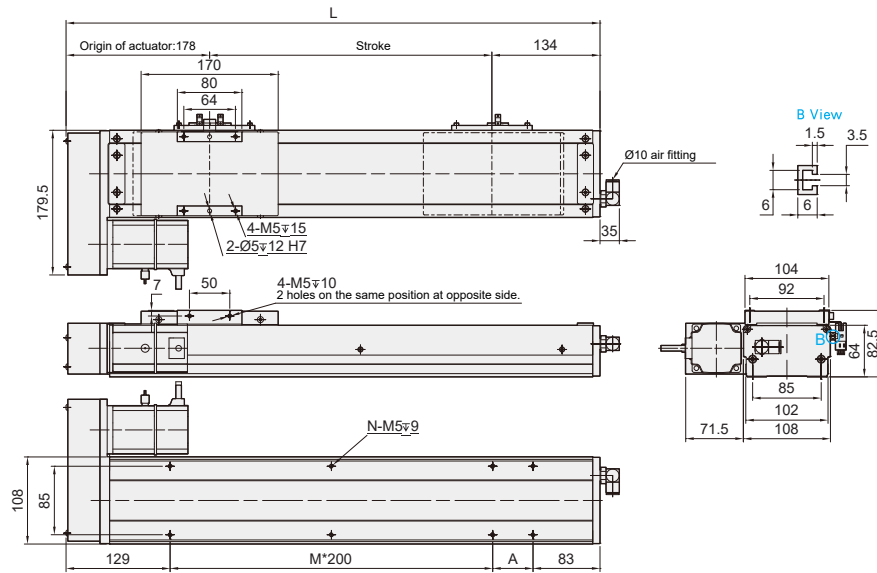


stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	7.22	7.65	8.08	8.51	8.94	9.37	9.8	10.23	10.66	11.09	11.52	11.95	12.38	12.81	13.24	13.67	14.1	14.53	14.96	15.39	15.82

Motor Left Side / Motor Right Side

BL Motor Left Side

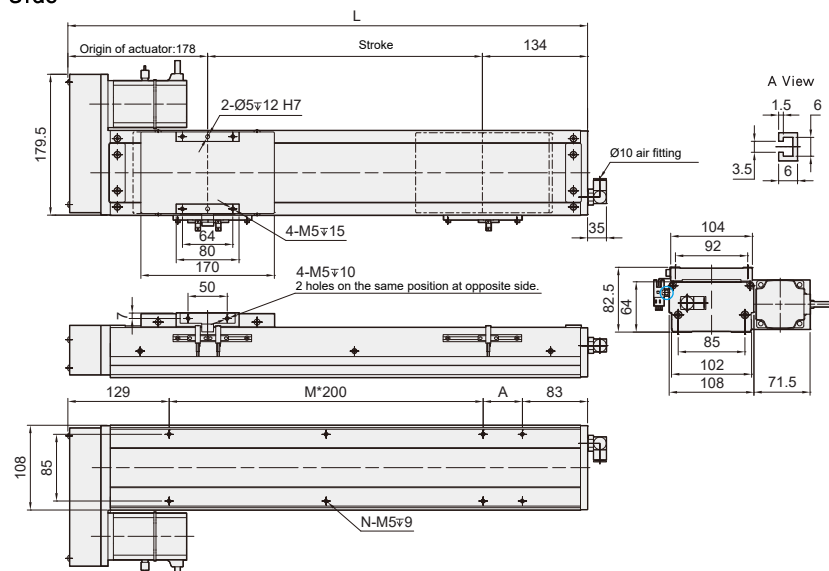
Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	7.02	7.45	7.88	8.31	8.74	9.17	9.6	10.03	10.46	10.89	11.32	11.75	12.18	12.61	13.04	13.47	13.9	14.33	14.76	15.19	15.62

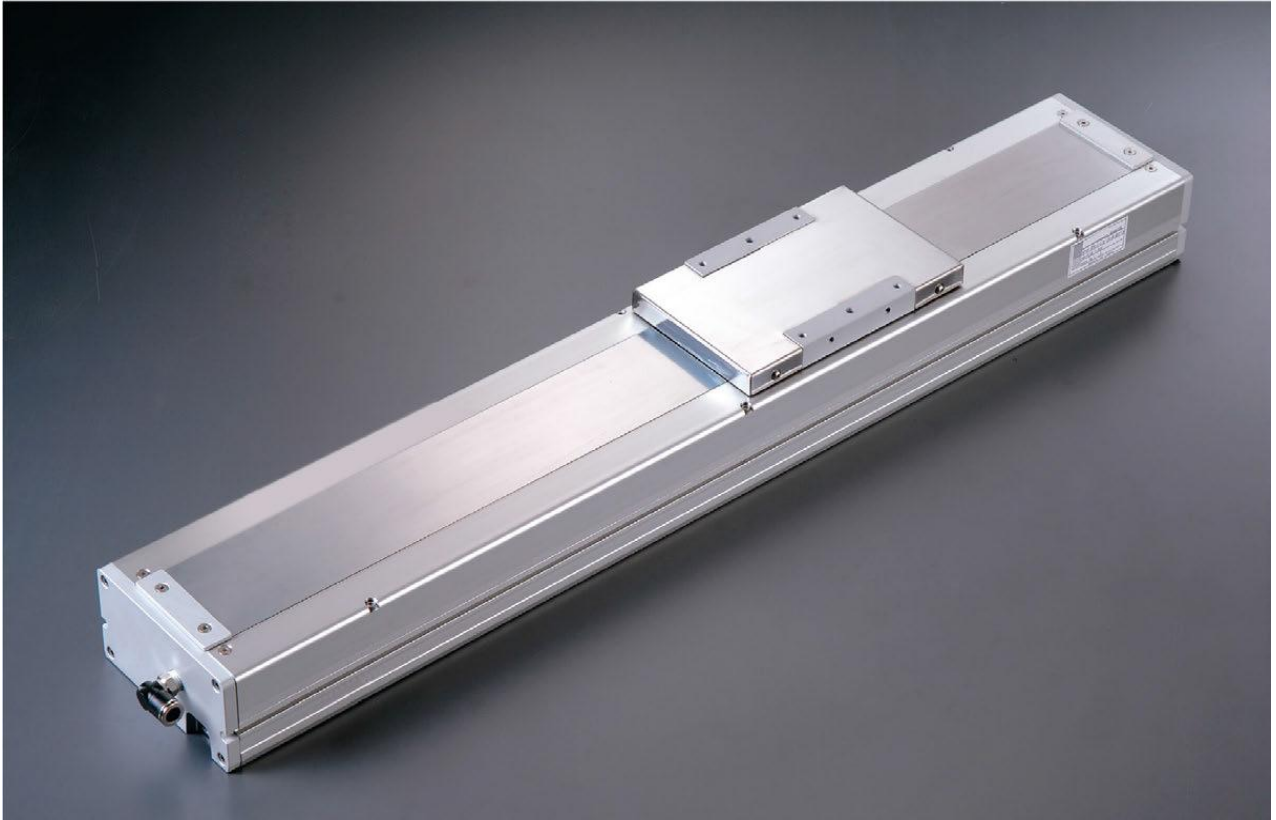
BR Motor Right Side

Unit : mm



stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	7.02	7.45	7.88	8.31	8.74	9.17	9.6	10.03	10.46	10.89	11.32	11.75	12.18	12.61	13.04	13.47	13.9	14.33	14.76	15.19	15.62

MEMO



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **200W**

Ball Screw **Ø 16mm**

Linear Guide **15X12.5
-2 stick**

Ordering Method

WECH14- L 5 - 50 - M - M20B- C 4 - 0001

Model

Special Order No.

Stroke

50-1050mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand , Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

※If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

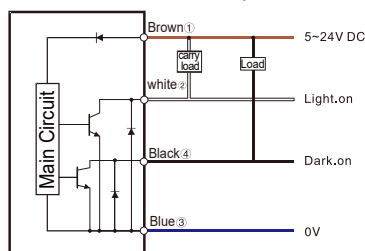
Specification

Spec	Repeatability (mm)		±0.02 (Turn±0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	95	75	35	15
		Vertical (kg)	27	18	7	-
	Rated Thrust (N)		683	341	174	107
	Stroke Pitch (mm)		50-1050mm/50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		200			
	Ball Screw Ø (mm)		C7 ϕ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14/11 (Note 1)			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

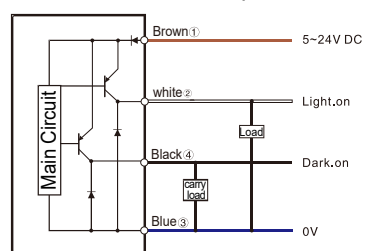
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. ※ Acceleration and deceleration value is set 0.2 second.
We recommend to low down the working speed under this circumstances.
(Note 1) Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Sensor Layout

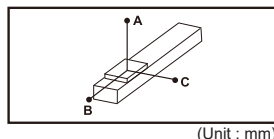
DC four-wire NPN output



DC four-wire PNP output

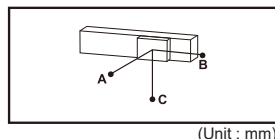


Allowable Overhang



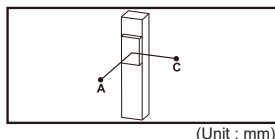
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	60kg	2512	242	232
	80kg	1811	172	164
	95kg	1537	138	133
10 Lead	30kg	2727	470	430
	50kg	1577	266	242
	75kg	1004	164	150
20 Lead	10kg	2304	1222	1028
	22kg	1443	540	451
	35kg	1005	324	271
32 Lead	10kg	1555	840	623
	15kg	1033	545	405
		-	-	-



(Unit : mm)

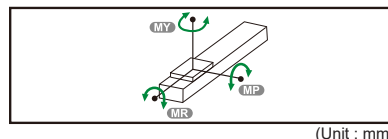
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	95kg	133	138	1537
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	75kg	150	164	1004
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	35kg	271	324	1005
32 Lead	8kg	787	1060	1980
	15kg	405	545	1033
		-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	15kg	1118	1118
	22kg	770	770
	27kg	626	626
10 Lead	10kg	1500	1500
	14kg	1072	1072
	18kg	833	833
20 Lead	4kg	2980	2980
	7kg	1700	1700
		-	-

Static Loading Moment



(Unit : mm)

MY	551
MP	552
MR	485

※ The torque value in the chart indicate the center of gravity.
Operation life is 10,000km when the product is using under the specified conditions.
※ Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

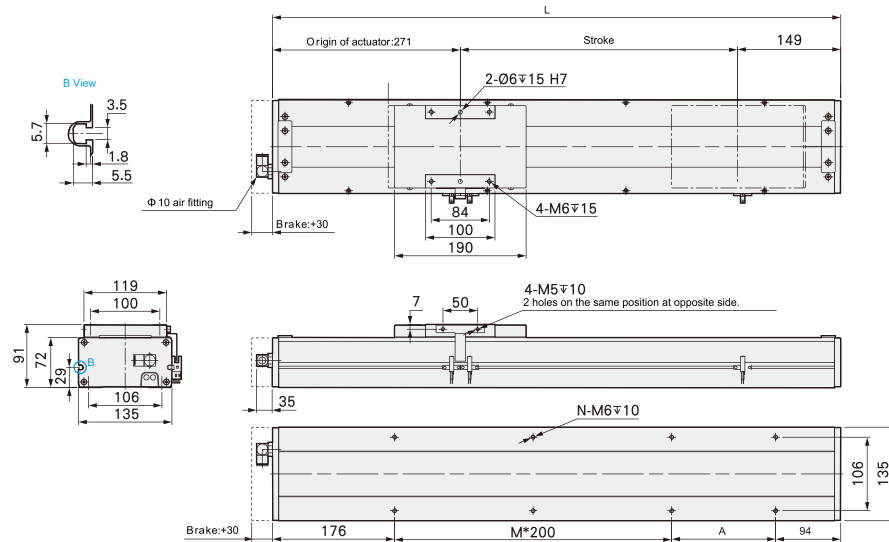
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

Motor Hidden In / Motor Exposed

M Motor Hidden in

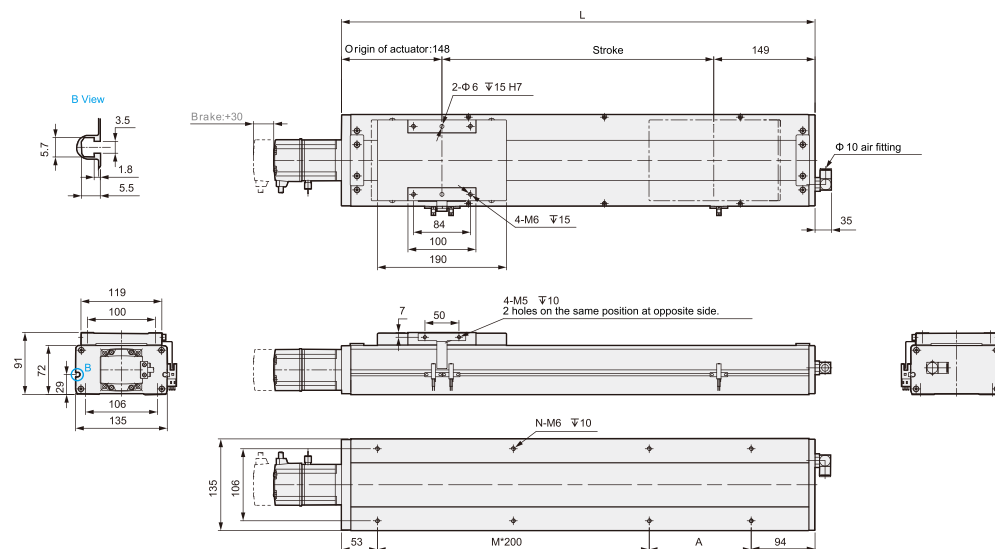
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	11.5	12.1	12.7	13.3	13.9	14.5	15.1	15.7	16.3	16.9	17.5	18.1	18.7	19.3	19.9	20.5	21.1	21.7	22.3	22.9	23.5

BC Motor Exposed

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.5	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5

BL Motor Left Side

Technical drawing of the M200 series actuator. The drawing includes three views: a front view, a side view, and a B View (cross-section).

Front View Dimensions:

- Overall length: L
- Origin of actuator: 185
- Stroke: 149
- Mounting bracket width: 190
- Mounting bracket hole spacing: 100
- Mounting bracket hole diameter: 84
- Mounting bracket hole specification: 2-Φ6 H7
- Actuator body diameter: 4-M6 H15
- Actuator body length: 210.5
- Actuator body end flange diameter: 35
- Actuator body end flange thickness: 7
- Actuator body end flange hole spacing: 50
- Actuator body end flange hole specification: 4-M5 H10
- Actuator body end flange hole specification: 2 holes on the same position at opposite side.
- Actuator body end flange hole diameter: N-M6 H10
- Actuator body end flange hole spacing: 90
- Actuator body end flange hole spacing: M*200
- Actuator body end flange hole spacing: A
- Actuator body end flange hole spacing: 94

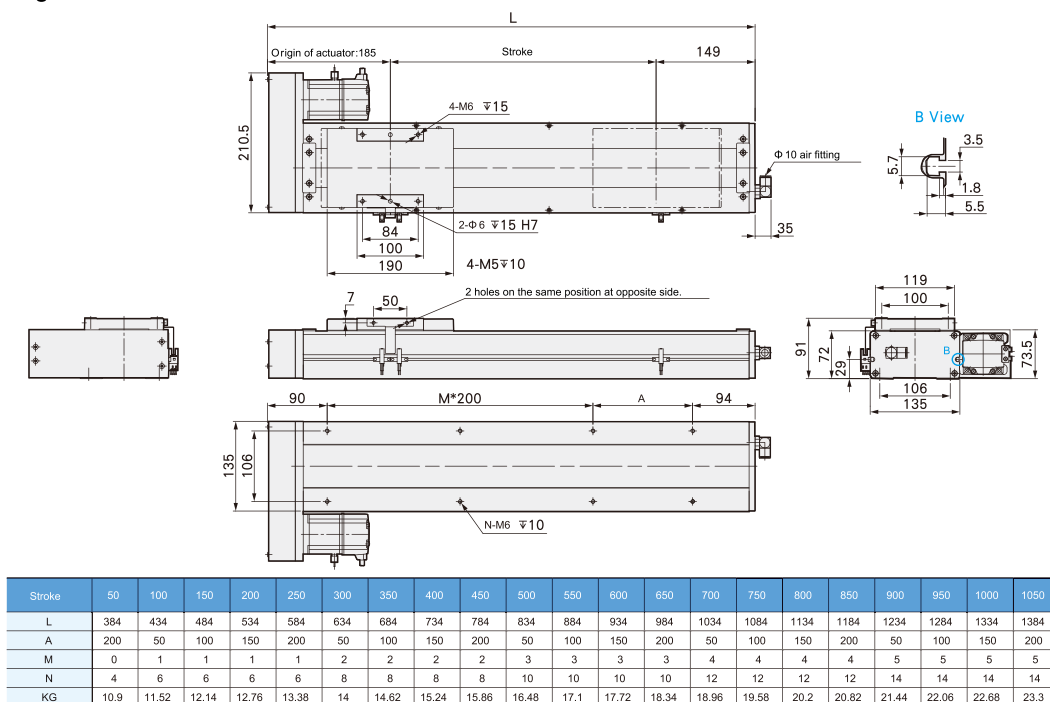
B View Dimensions:

- Overall width: 119
- Overall height: 91
- Mounting bracket hole spacing: 100
- Mounting bracket hole diameter: 3.5
- Mounting bracket hole spacing: 5.7
- Mounting bracket hole spacing: 1.8
- Mounting bracket hole spacing: 5.5
- Actuator body end flange diameter: 106
- Actuator body end flange thickness: 29
- Actuator body end flange hole spacing: 135
- Actuator body end flange hole spacing: 72
- Actuator body end flange hole spacing: 73.5

Table 1: Load Capacity (kg)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

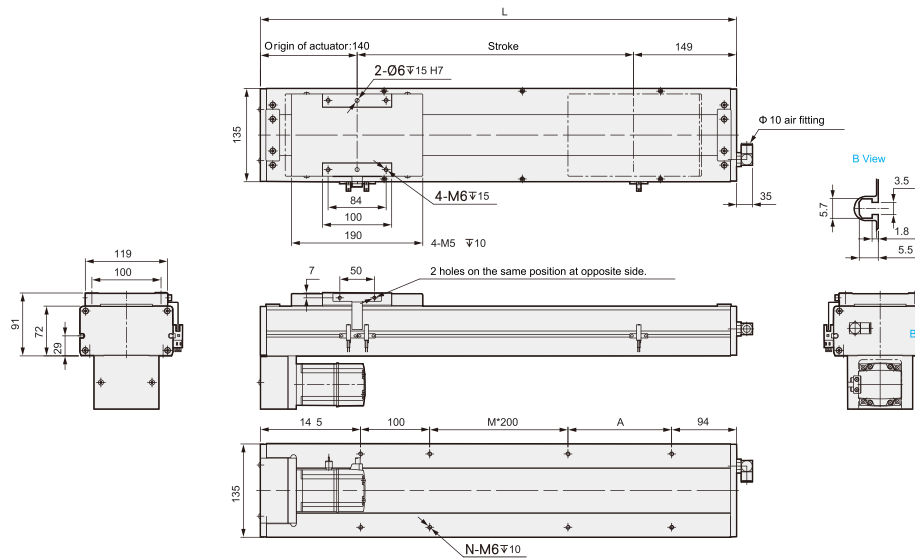
Unit : mm



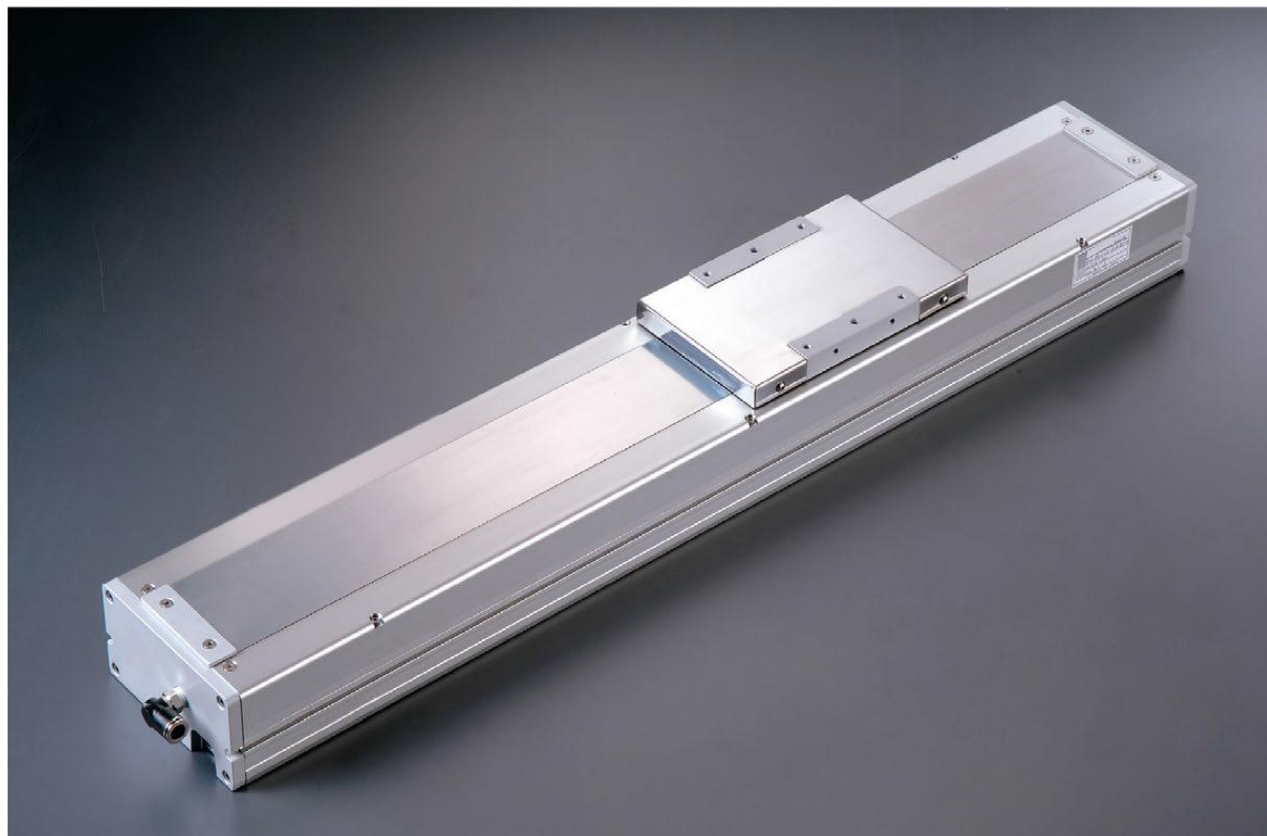
Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1050mm**

Maximum Speed **1600mm/s**

Motor Output **200W**

Ball Screw **Ø 16mm**

Linear Guide **15X12.5-2支**

Ordering Method

WECH14 - L 5 - 50 - M - M20B - C 4 - 0001

Model

Stroke

50-1050mm
50 mm Pitch

Special Order No.

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand, Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	200W	
Y	Yaskawa	40	-	
T	Delta	75	-	

※If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

05	05mm
10	10mm
20	20mm
32	32mm

Specification

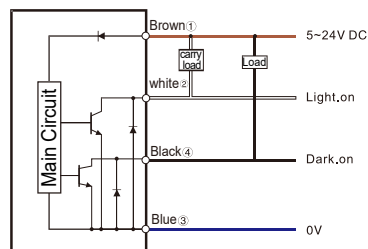
Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	32
	Maximum Speed (mm/s) ※1		250	500	1000	1600
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)		1388	694	347	217
	Stroke Pitch (mm)※2		50-1050mm / 50			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw $\varnothing$ (mm)		C7 Φ 16			
	High Rigidity Linear Guide (mm)		W15XH12.5			
	Coupling (mm)		10X14			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-in	674 (NPN/ PNP)			

※ Acceleration and deceleration value is set 0.2 second.

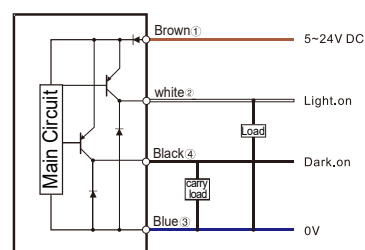
※ When the stroke is over 750mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances.

Sensor Layout

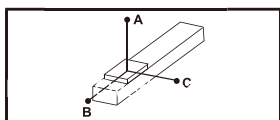
DC four-wire NPN output



DC four-wire PNP output

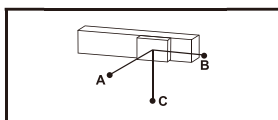


Allowable Overhang



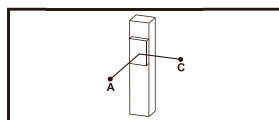
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
10 Lead	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
20 Lead	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
32 Lead	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188



(Unit : mm)

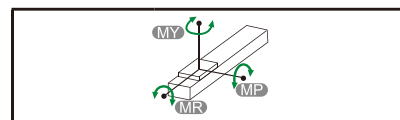
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
32 Lead	15kg	405	545	1033
	30kg	188	251	495
	-	-	-	-



(Unit : mm)

Vertical Installation		A	C
5 Lead	15kg	1118	1118
	22kg	770	770
	33kg	513	513
10 Lead	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682
20 Lead	7kg	1700	1700
	10kg	1188	1188
	-	-	-
32 Lead	5kg	1503	1503
	8kg	944	944
	-	-	-

Static Loading Moment



(Unit : mm)

MY	551
MP	552
MR	485

* The torque value in the chart indicate the center of gravity.
* Operation life is 10,000km when the product is using under the specified conditions.
* Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

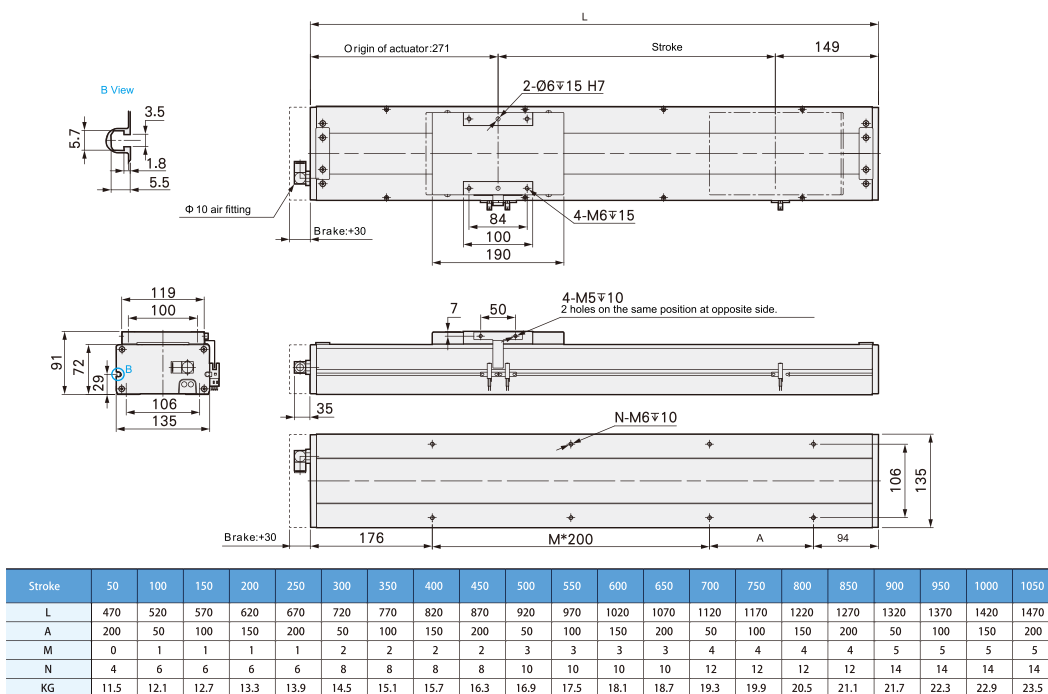
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MBDHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Hidden In / Motor Exposed

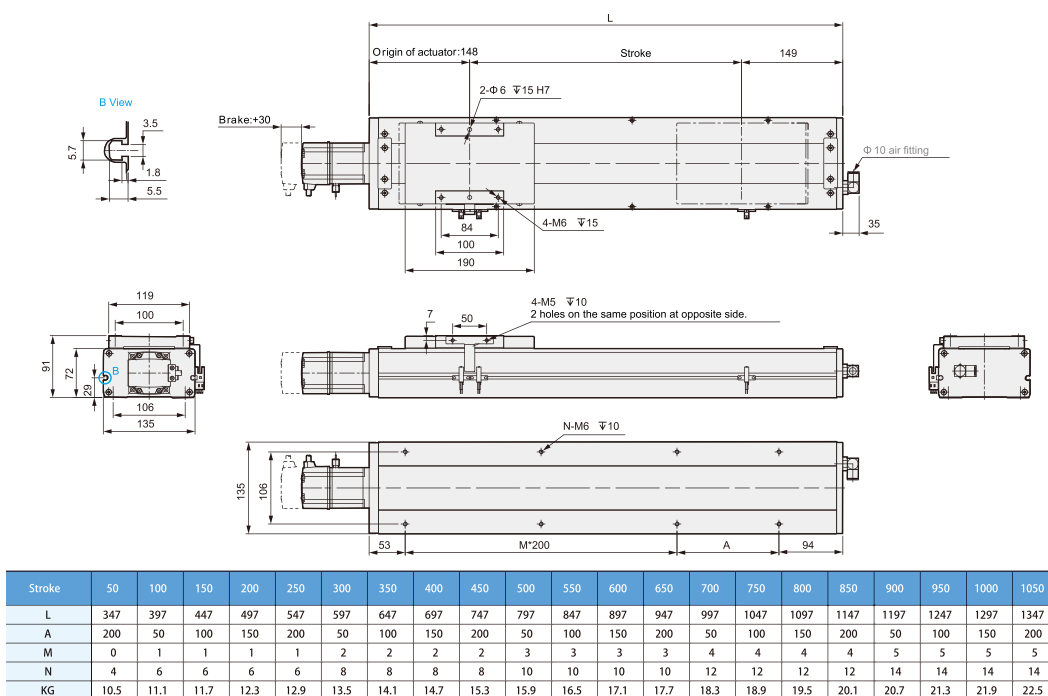
M Motor Hidden in

Unit: mm



BC Motor Exposed

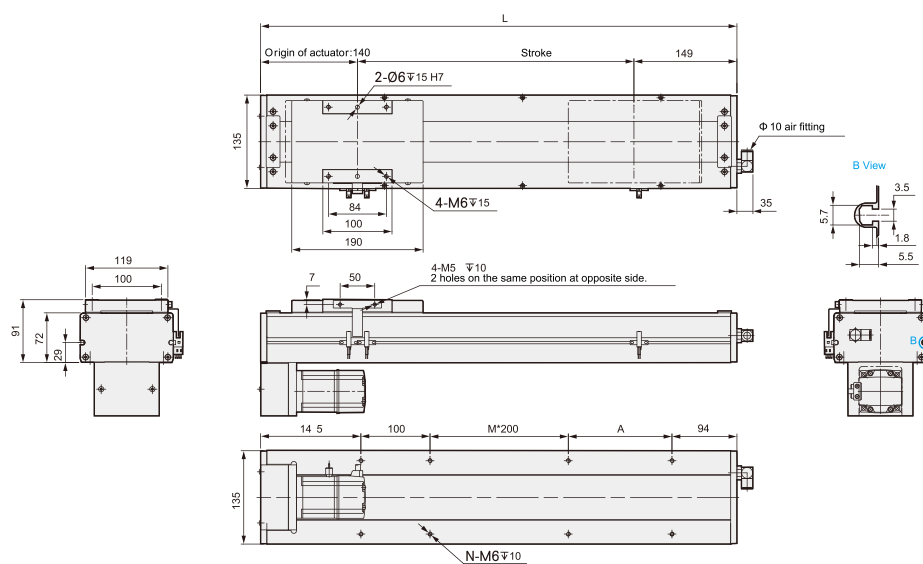
Unit: mm



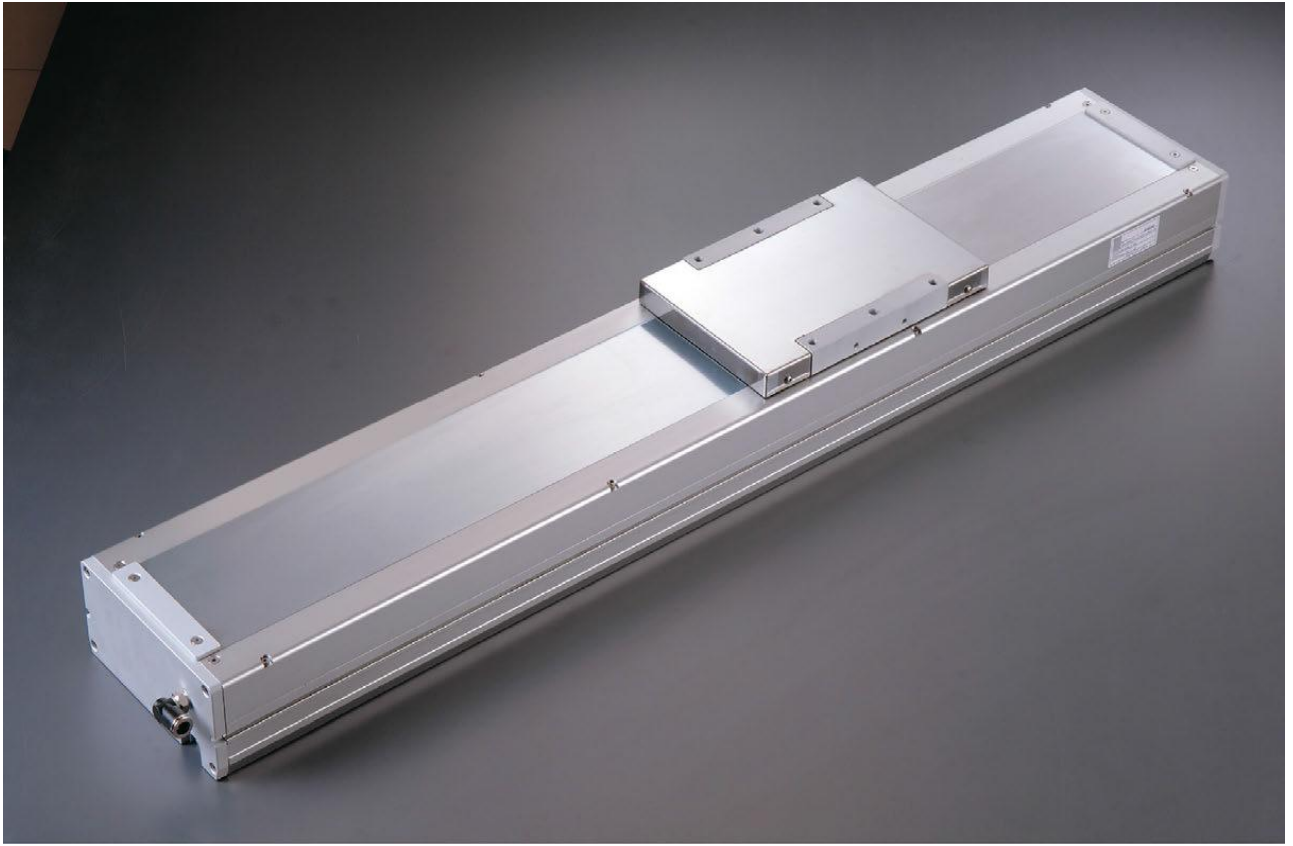
Motor Bottom Side

BM Motor Bottom Side

Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.9	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1250mm**

Maximum Speed **2000mm/s**

Motor Output **400W**

Ball Screw $\phi 20\text{mm}$

Linear Guide **20X15
-2 stick**

Ordering Method

WECH17- L 5 - 50 - M - M40B - C 4 - 0001

Model

Customization Order No

Stroke

50-1250mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Side
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand , Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	400W	
T	Delta	75	-	

* If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
40	40mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s) ※1		250	500	1000	2000
	Maximum Payload	Horizontal (kg)	120	110	75	22
		Vertical (kg)	40	30	14	7
	Rated Thrust (N)		1388	694	347	174
	Stroke Pitch (mm) ※2		50-1250mm / 50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		400			
	Ball Screw Ø (mm)		C7Φ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X14			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

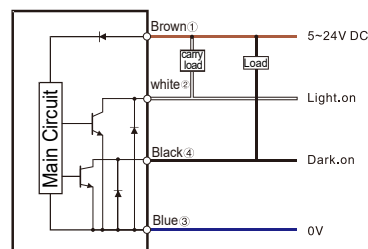
※ Acceleration and deceleration value is set 0.2 second.

When the stroke is over 850mm, the run-out of the ballscrew will occur.

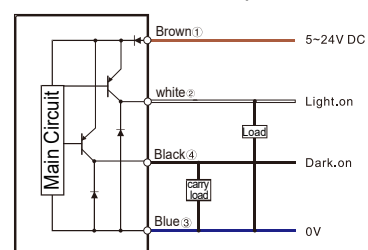
※ We recommend to low down the working speed under this circumstances.

Sensor Layout

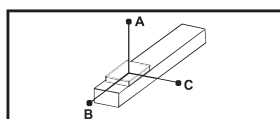
DC four-wire NPN output



DC four-wire PNP output

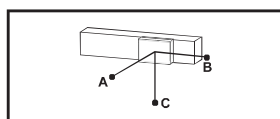


Allowable Overhang



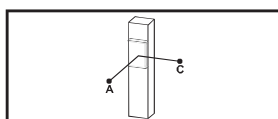
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1850	187	217
10 Lead	65kg	191	338	373
	85kg	1445	248	276
	110kg	1102	182	202
20 Lead	35kg	1666	547	538
	55kg	1030	33	328
	75kg	733	23	230
40 Lead	15kg	1126	740	577
	22kg	755	49	384



(Unit : mm)

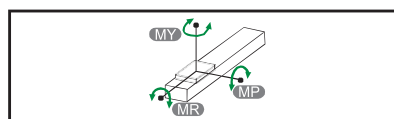
Wall Installation		A	B	C
5 Lead	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
10 Lead	60kg	408	368	2092
	80kg	296	266	1554
	110kg	202	182	1102
20 Lead	30kg	633	644	196
	50kg	365	369	1143
	75kg	230	23	733
40 Lead	12kg	729	936	1417
	22kg	384	49	755



(Unit : mm)

Vertical Installation		A	C
5 Lead	20kg	1368	1368
	30kg	91	91
	40kg	683	683
10 Lead	15kg	1618	1618
	25kg	970	970
	30kg	808	808
20 Lead	10kg	1922	1922
	14kg	1377	1377
40 Lead	4kg	2377	2377
	7kg	1356	1356

Static Loading Moment



(Unit : mm)

MY	1032
MP	1034
MR	908

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.

* Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

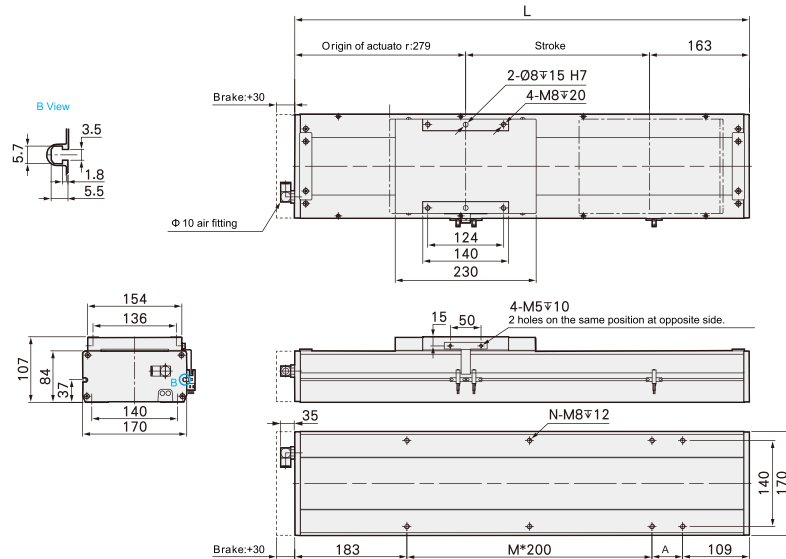
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMD042G1U	MBDHT2510
		With Brake (Vertical Type)	400	220	MHMD042G1V	MADHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B
		With Brake (Vertical Type)	400	220	ECMA-C20604FS	ASD-B20421-B

Motor Hidden In / Motor Exposed

M Motor Hidden in

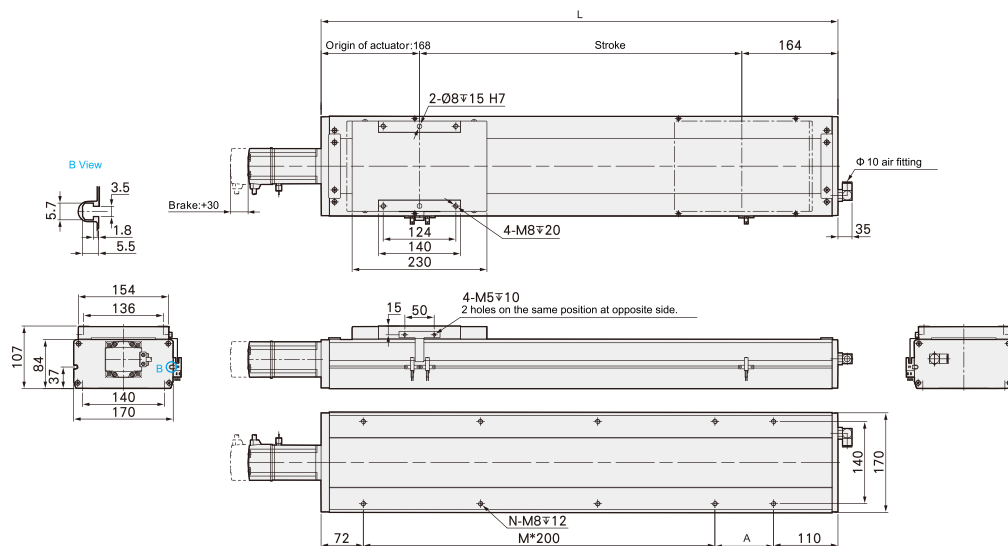
Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592	1642	1692
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	12.44	13.24	14.04	14.84	15.65	16.45	17.26	18.06	18.86	19.67	20.47	21.28	22.08	22.88	23.69	24.49	25.29	26.1	26.9	27.7	28.51	29.31	30.12	30.92	31.72

BC Motor Exposed

Unit: mm

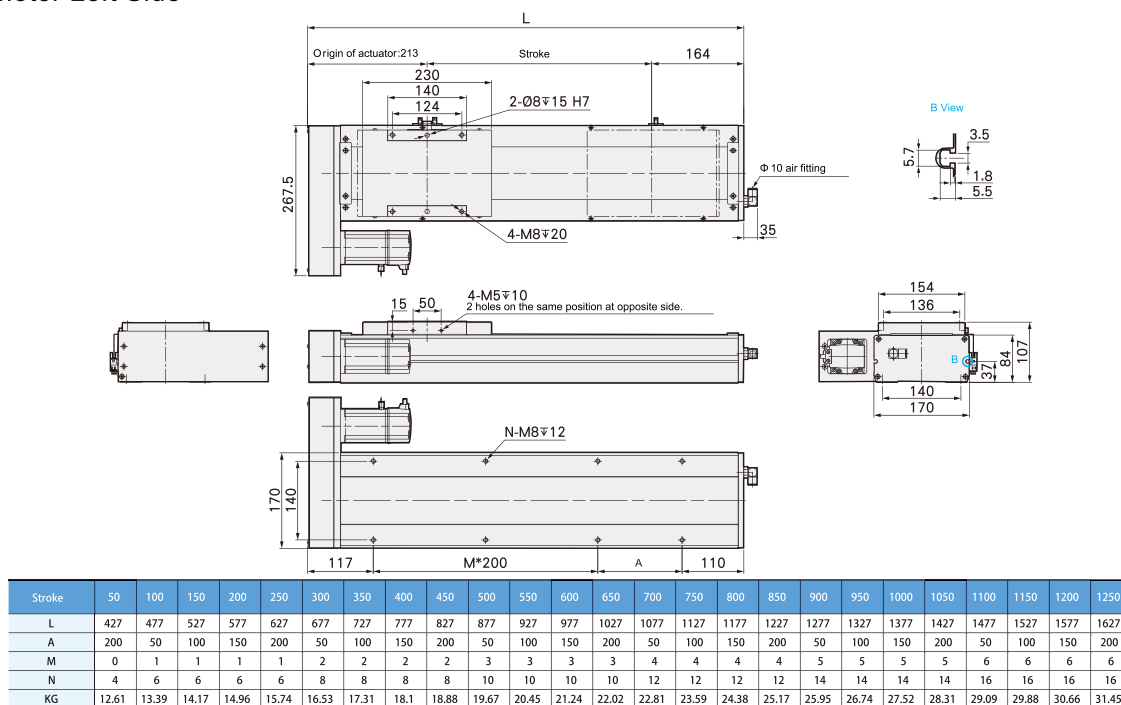


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	11.84	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55

Motor Left Side / Motor Right Side

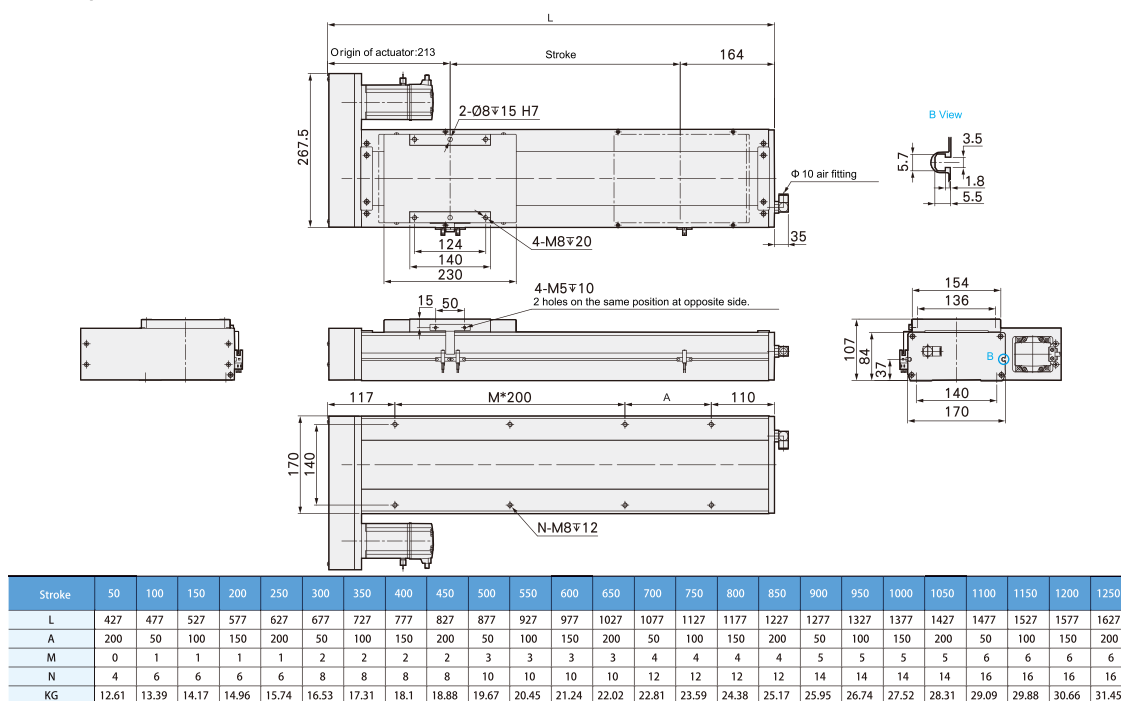
BL Motor Left Side

Unit : mm



BR Motor Right Side

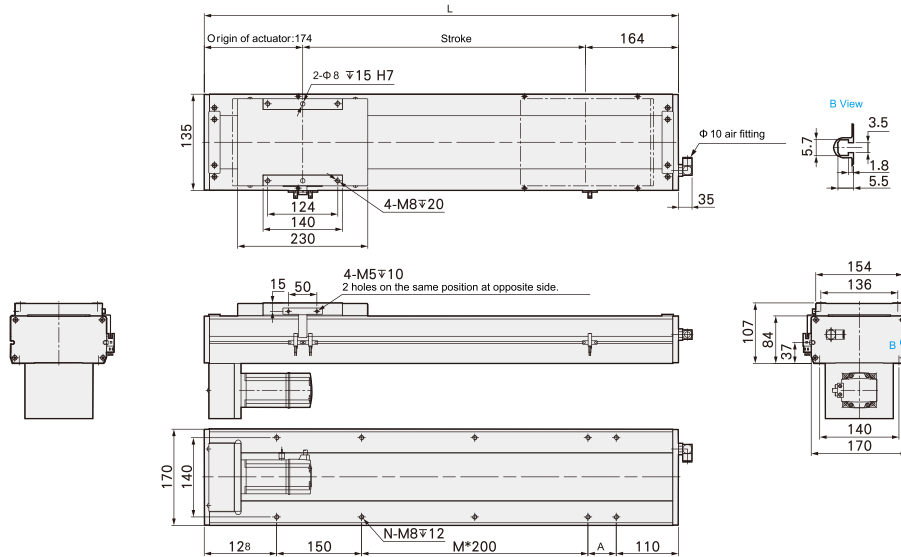
Unit : mm



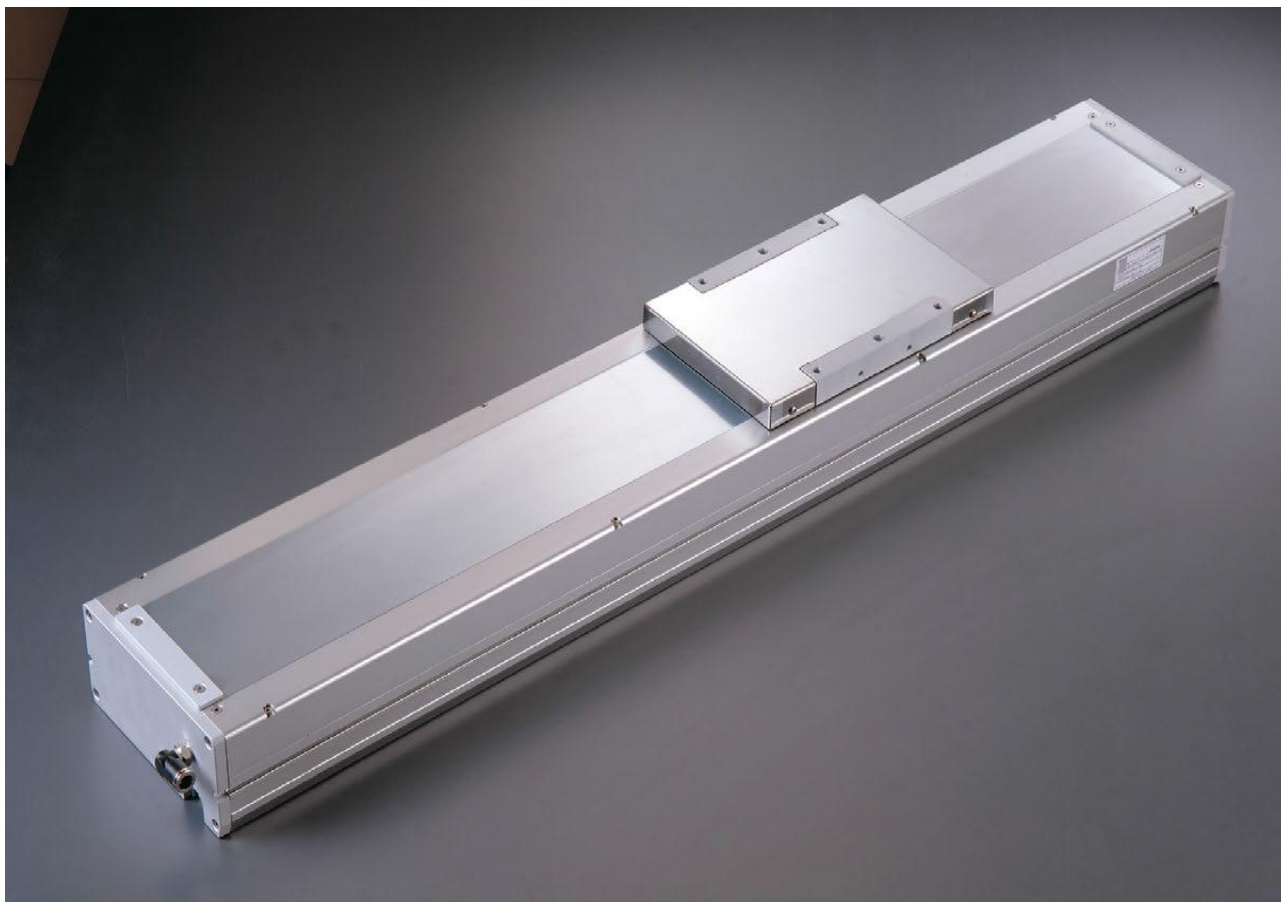
Motor Bottom Side

BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1250mm**

Maximum Speed **2000mm/s**

Motor Output **750W**

Ball Screw **Φ20mm**

Linear Guide **20X15
-2 stick**

Ordering Method

WECH17-L 5 - 50 - BC - M75B - C 4 - 0001

Model

Customization Order No

Stroke

50-1250mm
50 mm Pitch

Motor Position

BC	Motor Exposed
BM	Motor Bottom Side
BL	Motor Left Sided
BR	Motor Right Side

Motor Brand, Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	750W	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
20	20mm
40	40mm

Specification

Spec	Repeatability (mm)		± 0.02 (Turn ± 0.04)			
	Ball Screw Lead (mm)		5	10	20	40
	Maximum Speed (mm/s)※1		250	500	1000	2000
	Maximum Payload	Horizontal (kg)	120	120	83	43
		Vertical (kg)	50	40	25	12
	Rated Thrust (N)		2563	1281	640	320
	Stroke Pitch (mm) ※2		50-1250mm / 50			
Parts	AC Servo Motor Output (W)		750			
	Ball Screw Ø (mm)		C7Φ 20			
	High Rigidity Linear Guide (mm)		W20XH15			
	Coupling (mm)		12X19			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

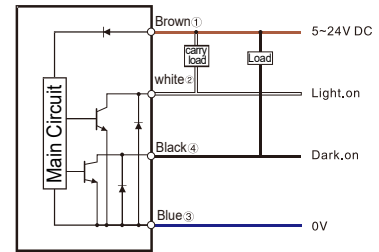
※ Acceleration and deceleration value is set 0.2 second.

※ When the stroke is over 850mm, the run-out of the ballscrew will occur.

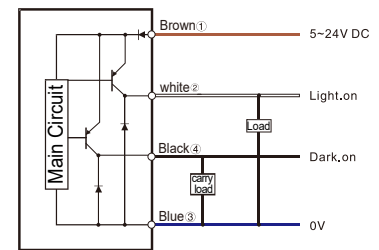
We recommend to low down the working speed under this circumstances.

Sensor Layout

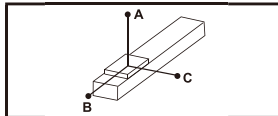
DC four-wire NPN output



DC four-wire PNP output

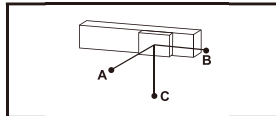


Allowable Overhang



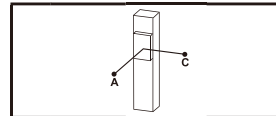
(Unit : mm)

Horizontal installation	A	B	C
5 Lead	70kg	3235	349
	90kg	2482	263
	120kg	1861	187
10 Lead	65kg	1911	338
	85kg	1445	248
	120kg	1000	164
20 Lead	35kg	1666	547
	55kg	1030	331
	83kg	654	206
40 Lead	15kg	1126	740
	22kg	755	491
	43kg	366	231



(Unit : mm)

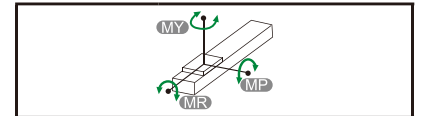
Wall Installation	A	B	C
5 Lead	75kg	377	322
	95kg	288	246
	120kg	218	187
10 Lead	60kg	408	368
	80kg	296	266
	120kg	182	164
20 Lead	30kg	633	644
	50kg	365	369
	83kg	204	206
40 Lead	12kg	729	936
	22kg	384	491
	43kg	183	231



(Unit : mm)

Vertical Installation	A	C
5 Lead	20kg	1368
	30kg	911
	50kg	546
10 Lead	15kg	1618
	25kg	970
	40kg	607
20 Lead	10kg	1922
	14kg	1377
	25kg	769
40 Lead	7kg	1356
	12kg	790
	-	-

Static Loading Moment



(Unit : mm)

MY	1032
MP	1034
MR	908

*The torque value in the chart indicate the center of gravity.

*Operation life is 10,000km when the product is using under the specified conditions.

*Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

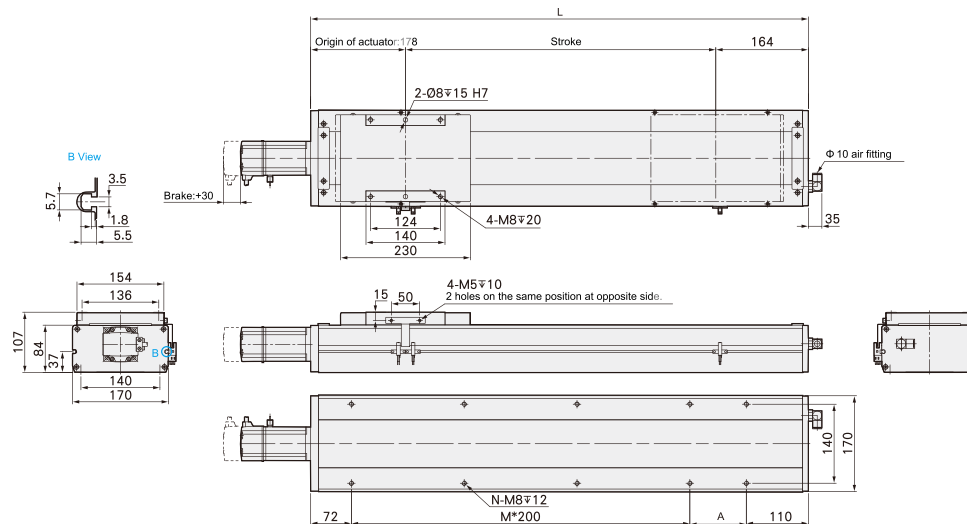
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

Motor Exposed / Motor Bottom Side

BC Motor Exposed

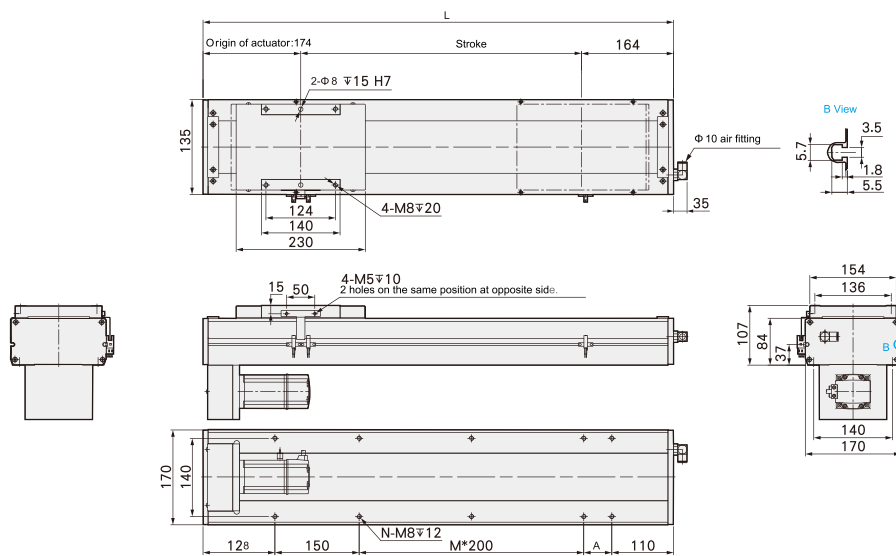
Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	11.84	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55

BM Motor Bottom Side

Unit: mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	12.61	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **1500mm**

Maximum Speed **2000mm/s**

Motor Output **750W**

Ball Screw **Φ 25mm**

Linear Guide **23X18
-2 stick**

Ordering Method

WECH22-L 25 - 50 - BC - M75B - C 4 - 0001

Model

Customization Order No

Stroke

50-1500mm
50 mm Pitch

Motor Position

M	Motor Hidden In
BC	Motor Exposed
BL	Motor Left Sided
BR	Motor Right Side
BM	Motor Bottom Side

Motor Brand , Power Output

M	Mitsubishi	10	-	B
P	Panasonic	20	-	
Y	Yaskawa	40	-	
T	Delta	75	750W	

*If No Brake, No Description.

Home Sensor

In Side	
A	Motor Side
B	Opposite Motor Side
Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	2 Pc
4	3 Pc
5	No Sensor

Ball Screw Lead

5	5mm
10	10mm
25	25mm
40	40mm

Specification

Spec	Repeatability (mm)		±0.02 (Turn±0.04)			
	Ball Screw Lead (mm)		5	10	25	40
	Maximum Speed (mm/s)※1		250	500	1250	2000
	Maximum Payload	Horizontal (kg)	150	150	105	43
		Vertical (kg)	55	45	20	12
	Rated Thrust (N)		2565	1281	640	320
	Stroke Pitch (mm) ※2		50-1500mm / 50 50 mm Pitch			
Parts	AC Servo Motor Output (W)		750			
	Ball Screw Ø (mm)		C7Φ 25			C7Φ 20
	High Rigidity Linear Guide (mm)		W23XH18			
	Coupling (mm)		17X19			12X19
	Home Sensor	Outside	672 (NPN/ PNP)			
Built-In		674 (NPN/ PNP)				

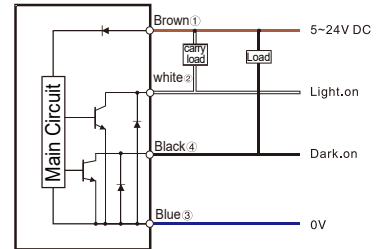
※1 Acceleration and deceleration value is set 0.2 second.

※2 When the stroke is over 900mm, the run-out of the ballscrew will occur.

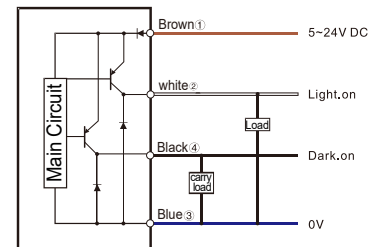
We recommend to low down the working speed under this circumstances.

Sensor Layout

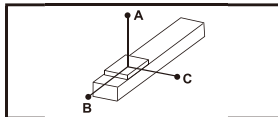
DC four-wire NPN output



DC four-wire PNP output

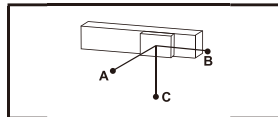


Allowable Overhang



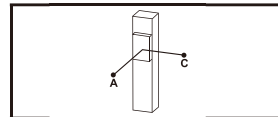
(Unit : mm)

Horizontal installation		A	B	C
5 Lead	100kg	5000	633	557
	125kg	3880	491	431
	150kg	3357	396	347
10 Lead	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295
25 Lead	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262
40 Lead	18kg	2445	1616	1052
	30kg	1436	938	613
	43kg	978	630	412



(Unit : mm)

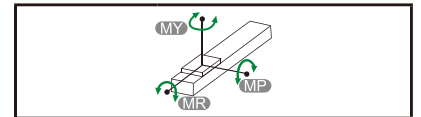
Wall Installation		A	B	C
5 Lead	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
10 Lead	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
25 Lead	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
40 Lead	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412	630	978



(Unit : mm)

Vertical Installation		A	C
5 Lead	30kg	2355	2355
	40kg	1768	1768
	55kg	1288	1288
10 Lead	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396
25 Lead	15kg	2711	2711
	20kg	2033	2033
	20kg	2033	2033
40 Lead	7kg	3511	3511
	12kg	2055	2055
	12kg	2055	2055

Static Loading Moment



(Unit : mm)

MY	2052
MP	2052
MR	1810

- * The torque value in the chart indicate the center of gravity.
- * Operation life is 10,000km when the product is using under the specified conditions.
- * Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

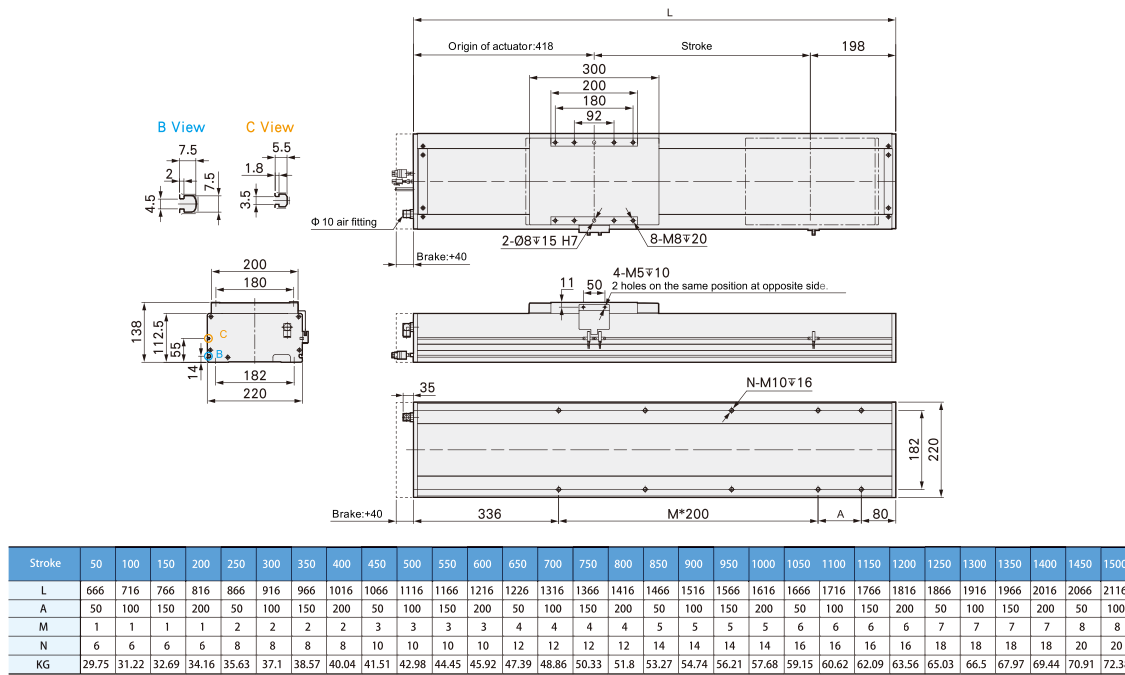
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KR73	MR-J4-70A
		With Brake (Vertical Type)	750	220	HG-KR73B	MR-J4-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMD082G1U	MCDHT3520
		With Brake (Vertical Type)	750	220	MHMD082G1V	MCDHT3520
Delta	T	No Brake (Horizontal Type)	750	220	ECMA-C20807ES	ASD-B20721-B
		With Brake (Vertical Type)	750	220	ECMA-C20807FS	ASD-B20721-B

Motor Hidden In / Motor Exposed

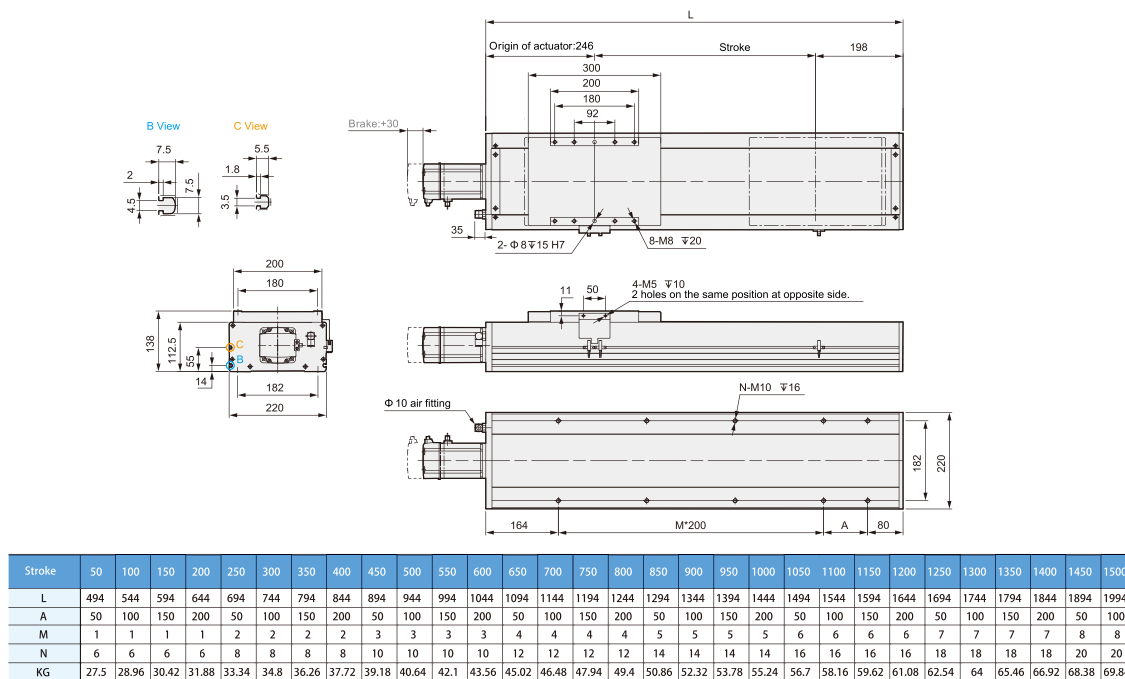
M Motor Hidden in

Unit : mm



BC Motor Exposed

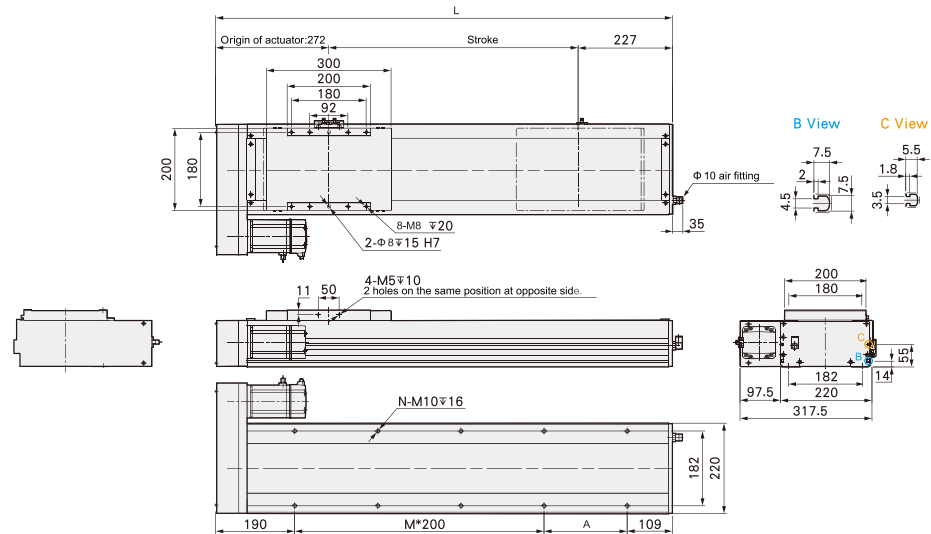
Unit : mm



Motor Left Side / Motor Right Side

BL Motor Left Side

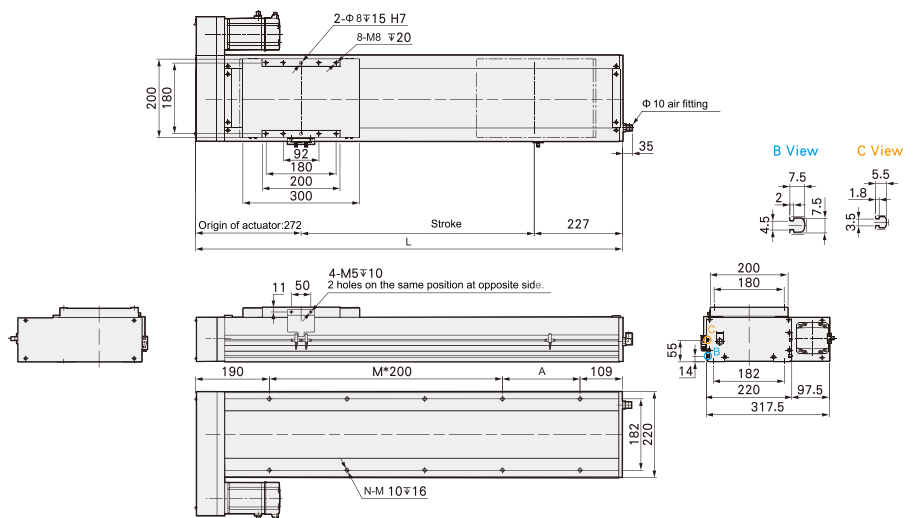
Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	28.6	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	65.56	68.02	69.48	70.94

BR Motor Right Side

Unit : mm

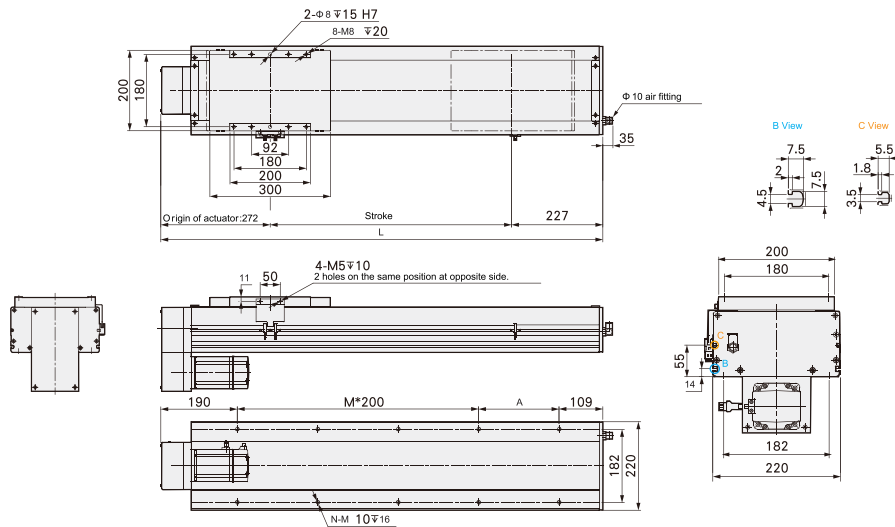


Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	28.6	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	65.56	68.02	69.48	70.94

Motor Bottom Side

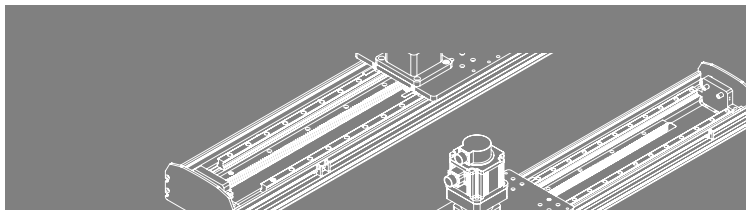
BM Motor Bottom Side

Unit : mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	28.6	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	65.56	68.02	69.48	70.94

MEMO



WCT Series

Clean Room

CONTENTS

Clean Room

MEDIUM



WCT14

Body width: 135mm
Maximum travel: 3500mm
Maximum load: 88kg

.....323

LARGE



WCT22F

Body width: 220mm
Maximum travel: 2800mm
Maximum load: 150kg

.....338

MEDIUM



WCT14F

Body width: 135mm
Maximum travel: 3500mm
Maximum load: 88kg

.....326

LARGE



WCT27

Body width: 270mm
Maximum travel: 3300mm
Maximum load: 500kg

.....341

MEDIUM



WCT17

Body width: 170mm
Maximum travel: 3500mm
Maximum load: 102kg

.....329

LARGE

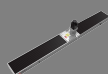


WCT27F

Body width: 270mm
Maximum travel: 3300mm
Maximum load: 500kg

.....344

MEDIUM



WCT17F

Body width: 170mm
Maximum travel: 3500mm
Maximum load: 102kg

.....332

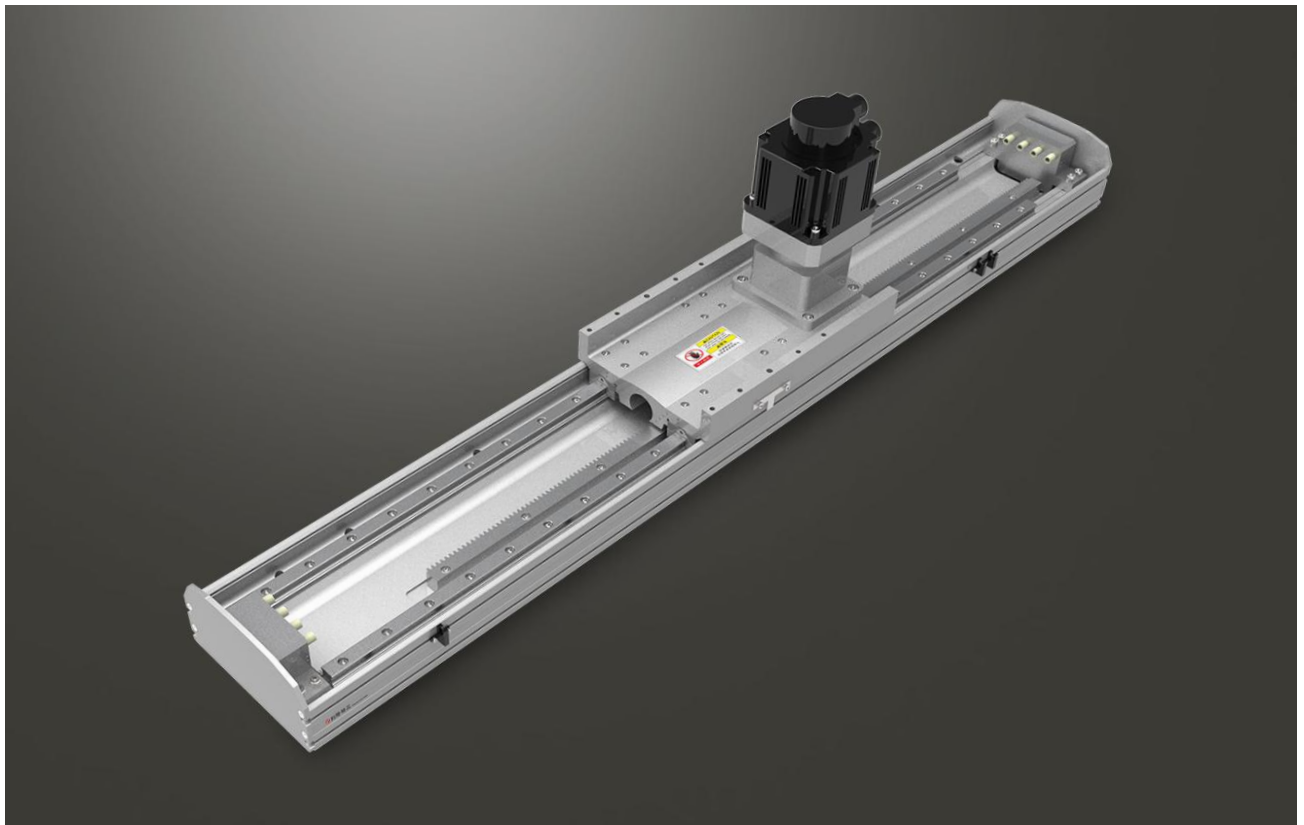
LARGE



WCT22

Body width: 220mm
Maximum travel: 2800mm
Maximum load: 150kg

.....335



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3500mm**

Maximum Speed **1665mm/s**

Motor Output **400W**

Rack **M1.5**

Linear Guide **15X12.5 -2 stick**

※The maximum speed depans on different gear ratio.

Ordering Method

WCT14 - L3/33.32 - 100 - BC-T400W- C 4

Model		Reduction Ratio With Lead			Stroke					
		Reduction ratio	Lead		1000-3500mm					
		3	3:1	33.32	100 mm Pitch					
		5	5:1	19.99						
		7	7:1	14.28						
		10	10:1	10.00						
Motor Position		Motor installation			Motor Output		Home Sensor		Limit Sensor	
BC	Motor Direct	T	General motor installation standard:		400W	400W	In Side		Out Side	
B L	Right Angle Reduction Machine		Mitsubishi		750W	-	A	In Side	3	2Pc
			Delta		1000W	-		Out Side	4	2Pc
			Yaskawa				C	Out Side	5	No Sensor
				P	Panasonic Motor Installation Standards			No Sensor		
						E	No Sensor			

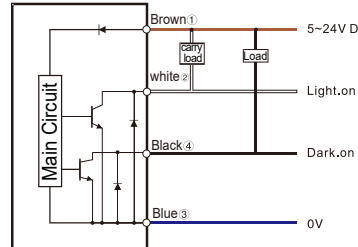
Specification

Specifications	Repeatability (mm)		± 0.04			
	Driving Power (w)		400			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		33.32	19.99	14.28	10.00
	Maximum Speed (mm/s)		1665	1000	715	500
	Maximum Payload	Horizontal (kg)	30	40	64	88
		Vertical (kg)	8	10	18	22
	Rated Thrust (N)		218	347	520	694
	Stroke Pitch (mm)		1000-3500mm/100 100 mm Pitch			
	(RPM)		3000			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

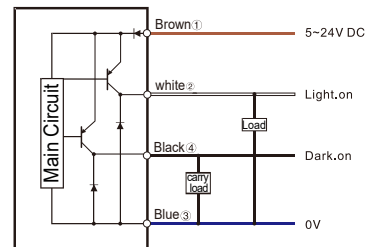
※ Organ cover of the same size, the total length of more than 6250 need to splice.
Motor acceleration and deceleration set to 0.3 seconds.

Sensor Layout

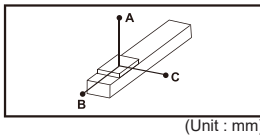
DC four-wire NPN output



DC four-wire PNP output

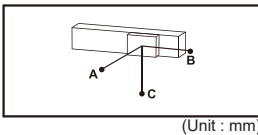


Allowable Overhang



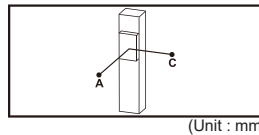
(Unit : mm)

Horizontal installation		A	B	C
3:1	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188
5:1	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
7:1	20kg	1668	881	729
	36kg	1510	403	346
	64kg	857	205	177
10:1	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122



(Unit : mm)

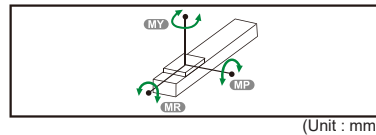
Wall Installation		A	B	C
3:1	15kg	405	545	1033
	30kg	188	251	495
	-	-	-	-
5:1	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
7:1	23kg	608	707	2460
	37kg	359	417	1516
	64kg	178	205	857
10:1	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854



(Unit : mm)

Vertical Installation		A	C
3:1	5kg	1503	1503
	8kg	944	944
	-	-	-
5:1	7kg	1700	1700
	10kg	1188	1188
	-	-	-
7:1	8kg	1605	1605
	12kg	1130	1130
	18kg	745	745
10:1	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682

Static Loading Moment



(Unit : mm)

MY	551
MP	552
MR	485

※ The torque value in the chart indicate the center of gravity.
※ Operation life is 10,000km when the product is using under the specified conditions.
※ Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KN43J-S100	MR-JE-40A
		With Brake (Vertical Type)	400	220	HG-KN43BJ-S100	MR-JE-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMF042L1U2M	MBDLN25SE
		With Brake (Vertical Type)	400	220	MHMF042L1V2M	MBDLN25SE
Delta	T	No Brake (Horizontal Type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L
		With Brake (Vertical Type)	400	220	ECM-B3M-C20604SS1	ASD-B3-0421-L



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke	3500mm	Maximum Speed	1665mm/s	Motor Output	400W	Rack	M1.5	Linear Guide	15X12.5 -2 stick
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※ The maximum speed depans on different gear ratio.

Ordering Method

WCT14F- L3/33.32 - 100 - BC-T400W- C 4

Model		Reduction Ratio With Lead		Stroke					
			Reduction ratio	Lead					
		3	3:1	33.32	1000-3500mm				
		5	5:1	19.99	100 mm Pitch				
		7	7:1	14.28					
		10	10:1	10.00					
Motor Position		Motor installation		Motor Output		Home Sensor		Limit Sensor	
BC	Motor Direct	T	General motor installation standard:	400W	400W	In Side		Out Side	
B L	Right Angle Reduction Machine		Mitsubishi	750W	-	A	In Side	3	2 Pc
			Delta	1000W	-		Out Side	4	3 Pc
			Yaskawa			C	Out Side	5	No Sensor
		P	Panasonic Motor Installation Standards				No Sensor		
						E	No Sensor		

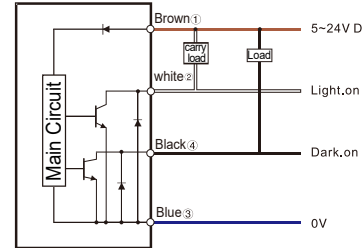
Specification

Spec	Repeatability (mm)		±0.04			
	Driving Power (w)		400			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		33.32	19.99	14.28	10.00
	Maximum Speed (mm/s)		1665	1000	715	500
	Maximum Payload	Horizontal (kg)	30	40	64	88
		Vertical (kg)	8	10	18	22
	Rated Thrust (N)		218	347	520	694
	Stroke Pitch (mm)		1000-2900mm/100 100 mm Pitch			
	(RPM)		3000			
Home Sensor		Built-In	672 (NPN/ PNP)			

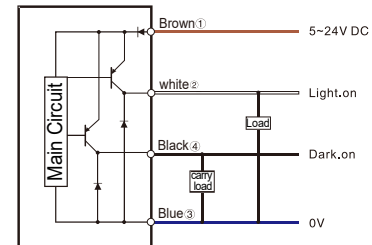
※ Choose the real motor please according to the motor parameters calculated the above specifications.

Sensor Layout

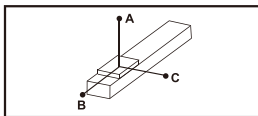
DC four-wire NPN output



DC four-wire PNP output

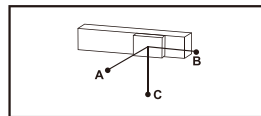


Allowable Overhang



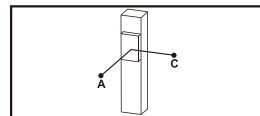
(Unit : mm)

Horizontal installation		A	B	C
3:1	15kg	1033	545	405
	25kg	604	311	233
	30kg	495	251	188
5:1	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233
7:1	20kg	1668	881	729
	36kg	1510	403	346
	64kg	857	205	177
10:1	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122



(Unit : mm)

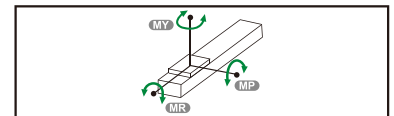
Wall Installation		A	B	C
3:1	15kg	405	545	1033
	30kg	188	251	495
	-	-	-	-
5:1	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
7:1	23kg	608	707	2460
	37kg	359	417	1516
	64kg	178	205	857
10:1	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854



(Unit : mm)

Vertical Installation		A	C
3:1	5kg	1503	1503
	8kg	944	944
	-	-	-
5:1	7kg	1700	1700
	10kg	1188	1188
	-	-	-
7:1	8kg	1605	1605
	12kg	1130	1130
	18kg	745	745
10:1	10kg	1500	1500
	14kg	1072	1072
	22kg	682	682

Static Loading Moment



(Unit : mm)

MY	551
MP	552
MR	485

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

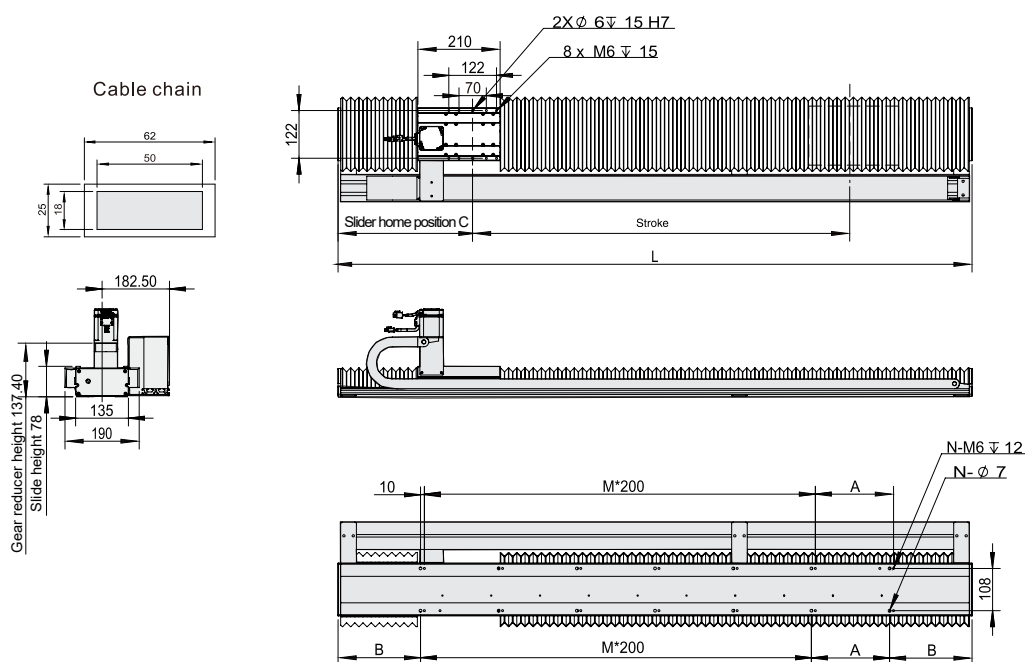
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KN43J-S100	MR-JE-40A
		With Brake (Vertical Type)	400	220	HG-KN43BJ-S100	MR-JE-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MHMF042L1U2M	MBDLN25SE
		With Brake (Vertical Type)	400	220	MHMF042L1V2M	MBDLN25SE
Delta	T	No Brake (Horizontal Type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L
		With Brake (Vertical Type)	400	220	ECM-B3M-C20604SS1	ASD-B3-0421-L

Motor Exposed

BC Motor Exposed

Unit: mm



stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
L	1622	1742	1862	1982	2102	2222	2342	2462	2582	2702	2822	2942	3062	3182	3302	3422	3542	3662	3782	3902
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
B	211	221	231	241	251	261	271	281	291	301	311	321	331	341	351	361	371	381	391	401
C	346	356	366	376	386	396	406	416	426	436	446	456	466	476	486	496	506	516	526	536
KG	23.56	24.92	26.28	27.64	29	30.36	31.72	33.08	34.44	35.8	37.16	38.52	39.88	41.24	42.6	43.96	45.32	46.68	48.04	49.4

※1: The motor size and the output is 400 w. With other power motor, please confirm with our company technical personnel.

※2: The installation of the ontology standard thread hole up and down.

※3: the motor is only directly type installation.

※4: the weight without motor.

※5: when travel more than 2900 mm, please inquire to technical personnel.



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3500mm**

Maximum Speed **2443mm/s**

Motor Output **750W**

Rack **M2**

Linear Guide **20X15
-2 stick**

※The maximum speed depans on different gear ratio.

Ordering Method

WCT17 - L3/48.87 - 100 - BC-T750W- C 4

Model		Reduction Ratio With Lead		Stroke					
		Reduction ratio	Lead						
		3	3:1	48.87		1000-3500mm			
		5	5:1	29.32		100 mm Pitch			
		7	7:1	20.94					
		10	10:1	14.66					
Motor Position		Motor Installation		Motor Output		Home Sensor		Limit Sensor	
BC	Motor Direct	T	General motor installation standard:	400W	-	In Side		Out Side	
			Mitsubishi	750W	750W	A In Side		3 2 Pc	
BL	Right Angle Reduction Machine		Delta	1000W	-	Out Side		4 3 Pc	
			Yaskawa			C Out Side		5 No Sensor	
		P	Panasonic Motor Installation Standards			No Sensor			
						E No Sensor			

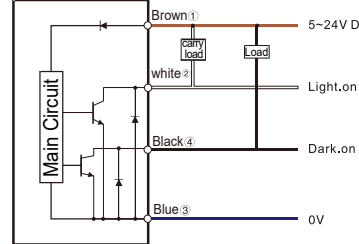
Specification

Spec	Repeatability (mm)		±0.04			
	Driving Power (w)		750			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		48.87	29.32	20.94	14.66
	Maximum Speed (mm/s)		2443	1466	1047	733
	Maximum Payload	Horizontal (kg)	31	63	83	102
		Vertical (kg)	9	18	25	33
	Rated Thrust (N)		240	480	640	961
	Stroke Pitch (mm)		1000-3500mm/100 100 mm Pitch			
	(RPM)		3000			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

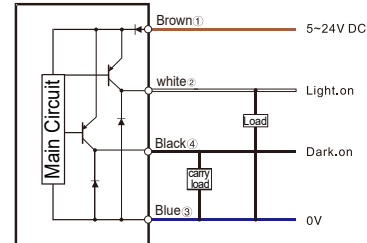
※ Choose the real motor please according to the motor parameters calculated the above specifications.

Sensor Layout

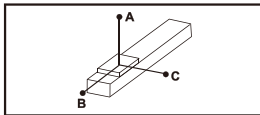
DC four-wire NPN output



DC four-wire PNP output

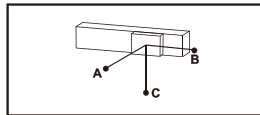


Allowable Overhang



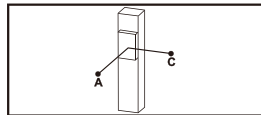
(Unit : mm)

Horizontal installation		A	B	C
3:1	10kg	991	837	587
	14kg	687	531	398
	31kg	294	244	188
5:1	25kg	1396	643	557
	38kg	892	411	356
	63kg	510	218	193
7:1	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
10:1	50kg	1789	443	456
	70kg	1238	290	302
	102kg	827	185	193



(Unit : mm)

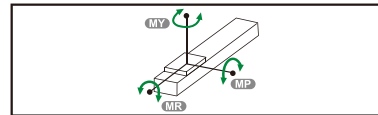
Wall Installation		A	B	C
3:1	8kg	777	1009	1281
	15kg	389	521	658
	33kg	188	237	294
5:1	21kg	681	790	1689
	36kg	374	430	949
	63kg	193	218	511
7:1	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
10:1	45kg	521	506	2027
	65kg	331	218	1349
	102kg	193	185	829



(Unit : mm)

Vertical Installation		A	C
3:1	5kg	1215	1215
	9kg	644	644
	-	-	-
5:1	8kg	1639	1639
	13kg	1083	1083
	18kg	868	868
7:1	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
10:1	13kg	1770	1770
	20kg	1174	1174
	33kg	688	688

Static Loading Moment



(Unit : mm)

MY	1032
MP	1034
MR	908

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

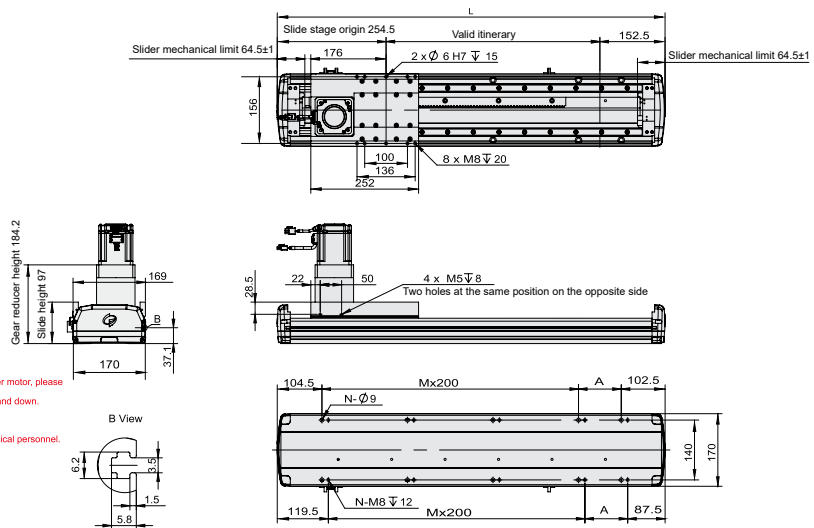
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KN73J-S100	MR-JE-70A
		With Brake (Vertical Type)	750	220	HG-KN73BJ-S100	MR-JE-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMF082L1U2M	MCDLN35SE
		With Brake (Vertical Type)	750	220	MHMF082L1V2M	MCDLN35SE
Delta	T	No Brake (Horizontal Type)	750	220	ECM-B3M-C20807RS1	ASD-B3-0721-L
		With Brake (Vertical Type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

Motor Exposed

BC Motor Exposed

Unit : mm

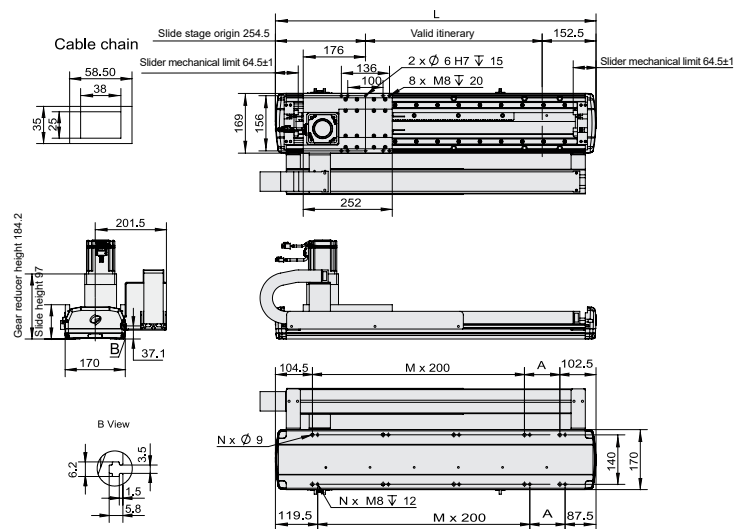


- ※1: The motor size and the output is 750 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 3500 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1407	1507	1607	1707	1807	1907	2007	2107	2207	2307	2407	2507	2607	2707	2807	2907	3007	3107	3207	3307	3407	3507	3607	3707	3807	3907
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40
KG	31	32.7	34.4	36.1	37.8	39.5	41.2	42.9	44.6	46.3	48	49.7	51.4	53.1	54.8	56.5	58.2	59.9	61.6	63.3	65	66.7	68.4	70.1	71.8	73.5

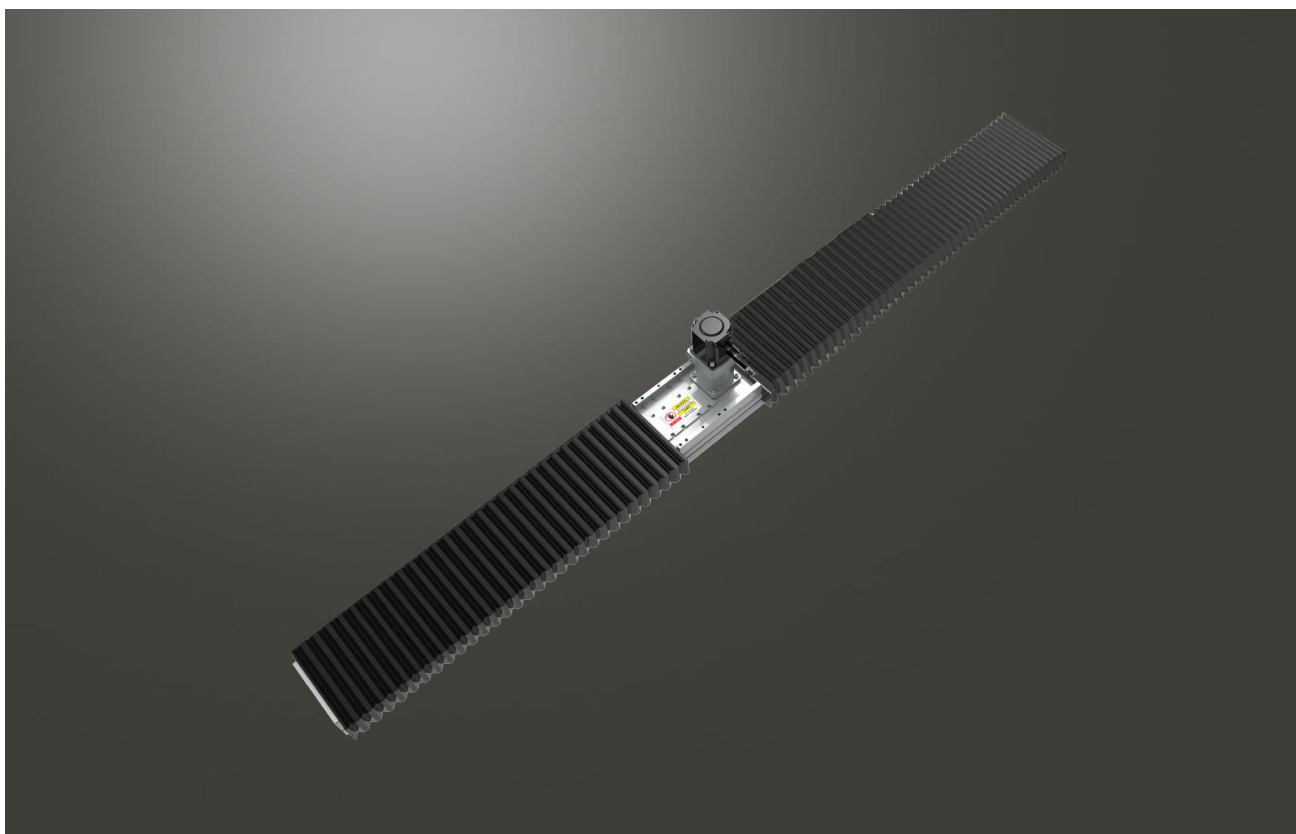
Including Drag Chains

Unit : mm



- ※1: The motor size and the output is 750 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 3500 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1407	1507	1607	1707	1807	1907	2007	2107	2207	2307	2407	2507	2607	2707	2807	2907	3007	3107	3207	3307	3407	3507	3607	3707	3807	3907
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40
KG	31	32.7	34.4	36.1	37.8	39.5	41.2	42.9	44.6	46.3	48	49.7	51.4	53.1	54.8	56.5	58.2	59.9	61.6	63.3	65	66.7	68.4	70.1	71.8	73.5



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke 2900mm

Maximum Speed 2443mm/s

Motor Output **750W**

Rack M2

Linear Guide **20X15 -2 stick**

※ The maximum speed depans on different gear ratio.

Ordering Method

WCT17F- L3/48.87 -100 - BC-T750W- A 2

Model		Reduction Ratio With Lead		Stroke					
			Reduction ratio	Lead	1000-2900mm				
		3	3:1	48.87	100 mm Pitch				
		5	5:1	29.32					
		7	7:1	20.94					
		10	10:1	14.66					
Motor Position		Motor Installation		Motor Output		Home Sensor		Limit Sensor	
BC	Motor Direct	T	General motor installation standard:	400W	-	In Side		Out Side	
			Mitsubishi	750W	750W	A	In Side	3	2 Pc
BL	Right Angle Reduction Machine		Delta	1000W	-	No Sensor		4	3 Pc
			Yaskawa			E	No Sensor	5	No Sensor
		P	Panasonic Motor Installation Standards						

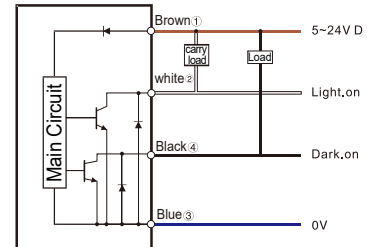
Specification

Spec	Repeatability (mm)		±0.04			
	Driving Power (w)		750			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		48.87	29.32	20.94	14.66
	Maximum Speed (mm/s)		2443	1466	1047	733
	Maximum Payload	Horizontal (kg)	31	63	83	102
		Vertical (kg)	9	18	25	33
	Rated Thrust (N)		240	480	640	961
	Stroke Pitch (mm)		1000-2900mm /100 100 mm Pitch			
	(RPM)		3000			
	Home Sensor	Built-In	674 (NPN/ PNP)			

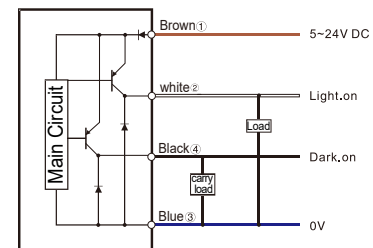
※ Choose the real motor please according to the motor parameters calculated the above specifications.

Sensor Layout

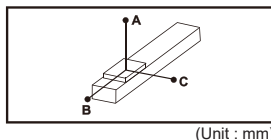
DC four-wire NPN output



DC four-wire PNP output

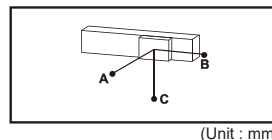


Allowable Overhang



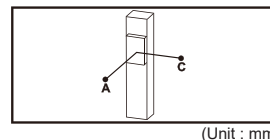
(Unit : mm)

Horizontal installation		A	B	C
3:1	10kg	991	837	587
	14kg	687	531	398
	31kg	294	244	188
5:1	25kg	1396	643	557
	38kg	892	411	356
	63kg	510	218	193
7:1	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
10:1	50kg	1789	443	456
	70kg	1238	290	302
	102kg	827	185	193



(Unit : mm)

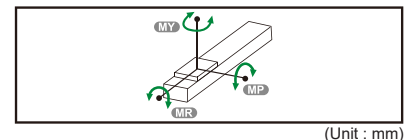
Wall Installation		A	B	C
3:1	8kg	777	1009	1281
	15kg	389	521	658
	33kg	188	237	294
5:1	21kg	681	790	1689
	36kg	374	430	949
	63kg	193	218	511
7:1	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
10:1	45kg	521	506	2027
	65kg	331	218	1349
	102kg	193	185	829



(Unit : mm)

Vertical Installation		A	C
3:1	5kg	1215	1215
	9kg	644	644
	-	-	-
5:1	8kg	1639	1639
	13kg	1083	1083
	18kg	868	868
7:1	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
10:1	13kg	1770	1770
	20kg	1174	1174
	33kg	688	688

Static Loading Moment



(Unit : mm)

MY	1032
MP	1034
MR	908

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

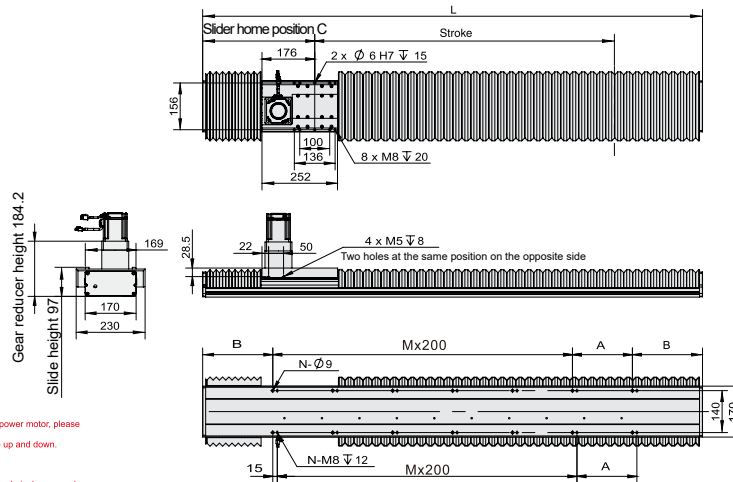
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	750	220	HG-KN73J-S100	MR-JE-70A
		With Brake (Vertical Type)	750	220	HG-KN73BJ-S100	MR-JE-70A
Panasonic	P	No Brake (Horizontal Type)	750	220	MHMF082L1U2M	MCDLN35SE
		With Brake (Vertical Type)	750	220	MHMF082L1V2M	MCDLN35SE
Delta	T	No Brake (Horizontal Type)	750	220	ECM-B3M-C20807RS1	ASD-B3-0721-L
		With Brake (Vertical Type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

Motor Exposed

BC Motor Exposed

Unit: mm

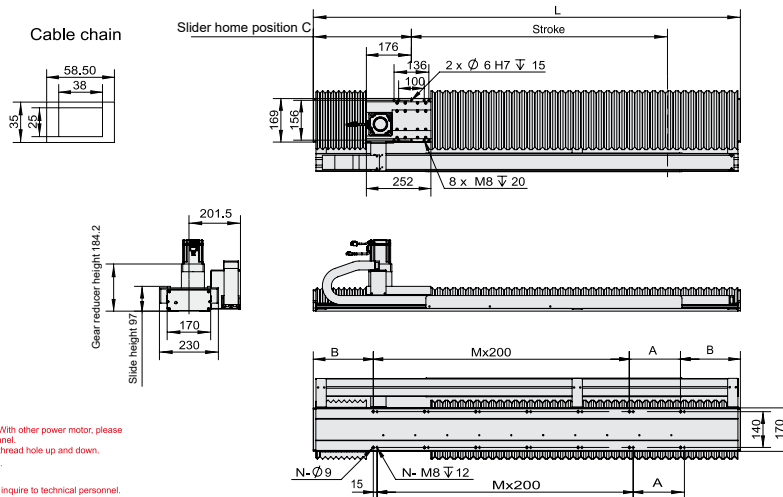


- ※1: The motor size and the output is 750 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 2900 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
L	1668	1788	1908	2028	2148	2268	2388	2508	2628	2748	2868	2988	3108	3228	3348	3468	3588	3708	3828	3948
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
B	234	244	254	264	274	284	294	304	314	324	334	344	354	364	374	384	394	404	414	424
C	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570
KG	40.3	42.5	44.7	46.9	49.1	51.3	53.5	55.7	57.9	60.1	62.3	64.5	66.7	68.9	71.1	73.3	75.5	77.7	79.9	82.1

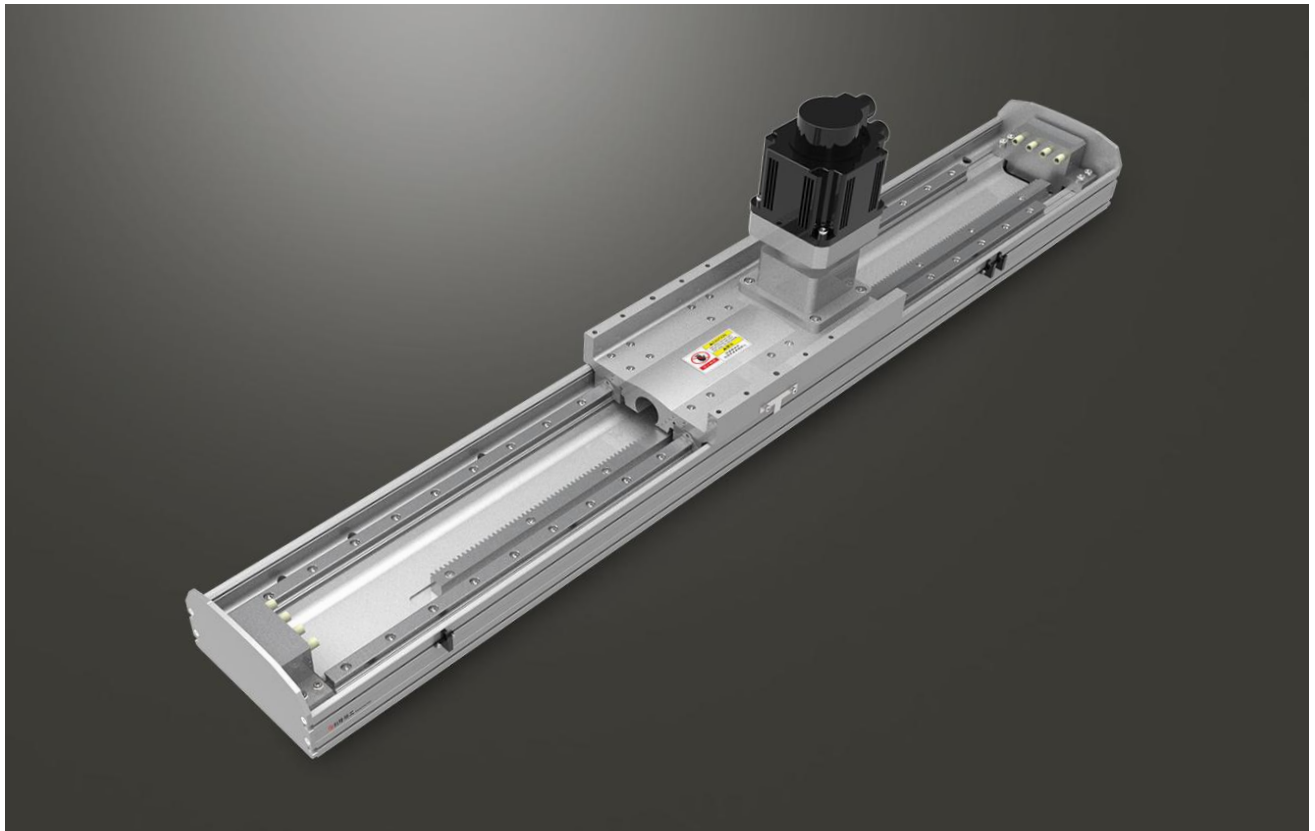
Including Drag Chains

Unit: mm



- ※1: The motor size and the output is 750 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 2900 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
L	1668	1788	1908	2028	2148	2268	2388	2508	2628	2748	2868	2988	3108	3228	3348	3468	3588	3708	3828	3948
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
B	234	244	254	264	274	284	294	304	314	324	334	344	354	364	374	384	394	404	414	424
C	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570
KG	40.3	42.5	44.7	46.9	49.1	51.3	53.5	55.7	57.9	60.1	62.3	64.5	66.7	68.9	71.1	73.3	75.5	77.7	79.9	82.1



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3500mm**

Maximum Speed **1633mm/s**

Motor Output **1000W**

Rack **M2**

Linear Guide **23X20
-2 stick**

※The maximum speed depans on different gear ratio.

Ordering Method

WCT22 - L3/48.87 - 100 - BC-T1000W-C 4

Model

Reduction Ratio With Lead

Stroke

	Reduction ratio	Lead
3	3:1	48.87
5	5:1	29.32
7	7:1	20.94
10	10:1	14.66

1000-3500mm
100 mm Pitch

Motor Position

Motor Installation

Motor Output

Home Sensor

Limit Sensor

BC	Motor Direct
B L	Right Angle Reduction Machine

T/P	General motor installation standard:
	Mitsubishi
	Delta
	Yaskawa
M	Panasonic Motor Installation Standards

400W	-
750W	-
1000W	1000W

	In Side
A	In Side
	Out Side
C	Out Side
無	No Sensor
E	No Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

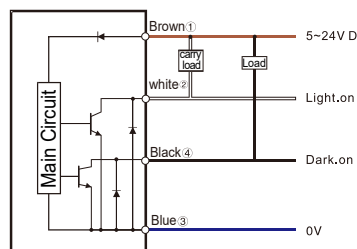
Specification

Spec	Repeatability (mm)		±0.04			
	Driving Power (w)		1000			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		48.87	29.32	20.94	14.66
	Maximum Speed (mm/s)		1633	966	700	486
	Maximum Payload	Horizontal (kg)	43	105	128	150
		Vertical (kg)	12	20	33	45
	Rated Thrust (N)		320	640	961	1281
	Stroke Pitch (mm)		1000-3500mm/100 100 mm Pitch			
	(RPM)		2000			
	Home Sensor	Outside	672 (NPN/ PNP)			
		Built-In	674 (NPN/ PNP)			

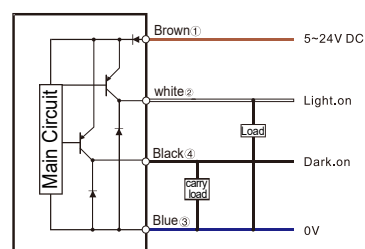
* Choose the real motor please according to the motor parameters calculated the above specifications.

Sensor Layout

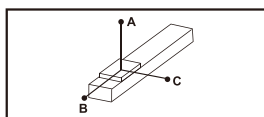
DC four-wire NPN output



DC four-wire PNP output

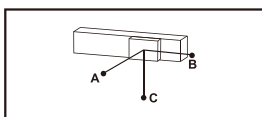


Allowable Overhang



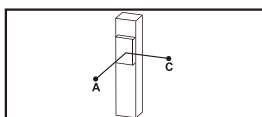
(Unit : mm)

Horizontal Installation	A	B	C
3:1	18kg 2445	1616	1052
	30kg 1436	938	613
	43kg 978	630	412
	65kg 1522	614	458
5:1	85kg 1136	451	336
	105kg 893	350	262
	83kg 2071	589	466
7:1	105kg 1845	443	352
	128kg 1503	350	279
	100kg 3220	563	474
10:1	125kg 2554	434	367
	150kg 2113	349	295



(Unit : mm)

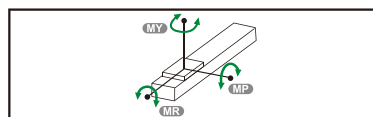
Wall Installation	A	B	C
3:1	15kg 1272	1955	2948
	24kg 778	1190	1813
	43kg 412	630	978
	70kg 420	564	1404
5:1	90kg 315	420	1066
	105kg 262	350	893
	90kg 424	534	2152
7:1	110kg 333	417	1755
	128kg 279	350	1503
	110kg 427	503	2900
10:1	130kg 351	414	2444
	150kg 295	349	2113



(Unit : mm)

Vertical Installation	A	C
3:1	7kg 3511	3511
	12kg 2055	2055
	-	-
	15kg 2711	2711
5:1	20kg 2033	2033
	-	-
	20kg 2608	2608
7:1	28kg 1914	1914
	33kg 1511	1511
	25kg 2505	2505
10:1	35kg 1795	1795
	45kg 1396	1396

Static Loading Moment



(Unit : mm)

MY	2052
MP	2052
MR	1810

* The torque value in the chart indicate the center of gravity.
 * Operation life is 10,000km when the product is using under the specified conditions.
 * Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

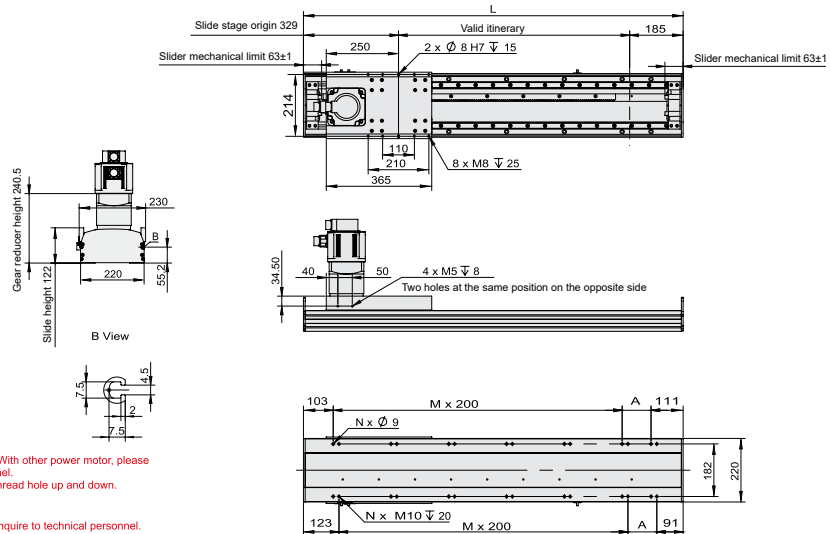
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	1000	220	HG-SN102J-S100	MR-JE-100A
		With Brake (Vertical Type)	1000	220	HG-SN102BJ-S100	MR-JE-100A
Panasonic	P	No Brake (Horizontal Type)	1000	220	MDMF102L1G6M	MDDLN45SE
		With Brake (Vertical Type)	1000	220	MDMF102L1H6M	MDDLN45SE
Delta	T	No Brake (Horizontal Type)	1000	220	ECM-B3M-E21310RS1	ASD-B3-1021-L
		With Brake (Vertical Type)	1000	220	ECM-B3M-E21310SS1	ASD-B3-1021-L

Motor Exposed

BC Motor Exposed

Unit : mm

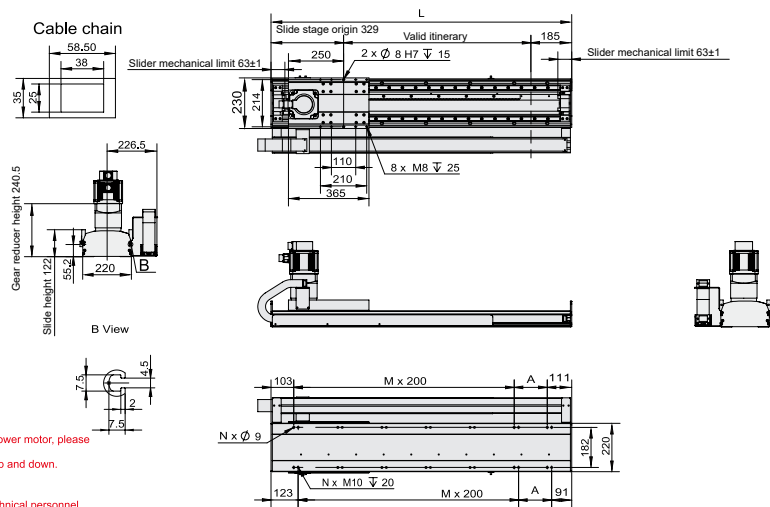


- ※1: The motor size and the output is 1000 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 3500 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40
KG	51.6	53.8	56	58.2	60.4	62.6	64.8	67	69.2	71.4	73.6	75.8	78	80.2	82.4	84.6	86.8	89	91.2	93.4	95.6	97.8	100	102.2	104.4	106.6

Including Drag Chains

Unit : mm



- ※1: The motor size and the output is 1000 w. With other power motor, please confirm with our company technical personnel.
 ※2: The installation of the ontology standard thread hole up and down.
 ※3: the motor is only directly type installation.
 ※4: the weight without motor.
 ※5: when travel more than 3500 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
L	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40
KG	51.6	53.8	56	58.2	60.4	62.6	64.8	67	69.2	71.4	73.6	75.8	78	80.2	82.4	84.6	86.8	89	91.2	93.4	95.6	97.8	100	102.2	104.4	106.6



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **2800mm**

Maximum Speed **1633mm/s**

Motor Output **1000W**

Rack **M2**

Linear Guide **23X20-2 stick**

※ The maximum speed depends on different gear ratio.

Ordering Method

WCT22F- L3/48.87 -100 - BC-T1000W-A 2

Model		Reduction Ratio With Lead		Stroke							
			Reduction ratio	Lead							
		3	3:1	48.87	1000-2800mm						
		5	5:1	29.32	100 mm Pitch						
		7	7:1	20.94							
		10	10:1	14.66							

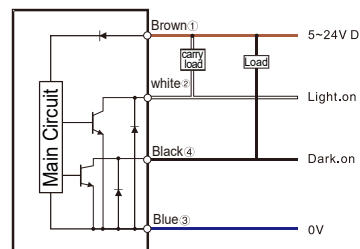
Specification

Spec	Repeatability (mm)		±0.04			
	Driving Power (w)		1000			
	Reduction ratio		3:1	5:1	7:1	10:1
	Gear Lead (mm)		48.87	29.32	20.94	14.66
	Maximum Speed (mm/s)		1633	966	700	486
	Maximum Payload	Horizontal (kg)	43	105	128	150
		Vertical (kg)	12	20	33	45
	Rated Thrust (N)		320	640	961	1281
	Stroke Pitch (mm)		1000-2800mm/100 100 mm Pitch			
	(RPM)		2000			
	Home Sensor	Built-In	674 (NPN/ PNP)			

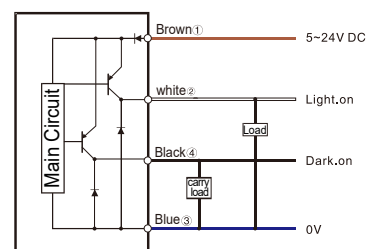
※ Choose the real motor please according to the motor parameters ※ Acceleration and deceleration value is set 0.2 second, calculated the above specifications.

Sensor Layout

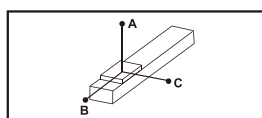
DC four-wire NPN output



DC four-wire PNP output

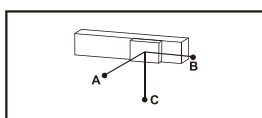


Allowable Overhang



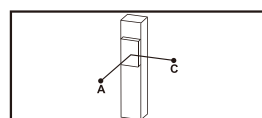
(Unit : mm)

Horizontal installation		A	B	C
3:1	18kg	2445	1616	1052
	30kg	1436	938	613
	43kg	978	630	412
5:1	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262
7:1	83kg	2071	589	466
	105kg	1845	443	352
	128kg	1503	350	279
10:1	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295



(Unit : mm)

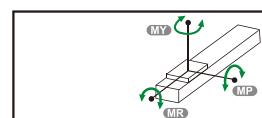
Wall Installation		A	B	C
3:1	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412	630	978
5:1	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
7:1	90kg	424	534	2152
	110kg	333	417	1755
	128kg	279	350	1503
10:1	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113



(Unit : mm)

Vertical Installation		A	C
3:1	7kg	3511	3511
	12kg	2055	2055
	-	-	-
5:1	15kg	2711	2711
	20kg	2033	2033
	-	-	-
7:1	20kg	2608	2608
	28kg	1914	1914
	33kg	1511	1511
10:1	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396

Static Loading Moment



(Unit : mm)

MY	2052
MP	2052
MR	1810

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

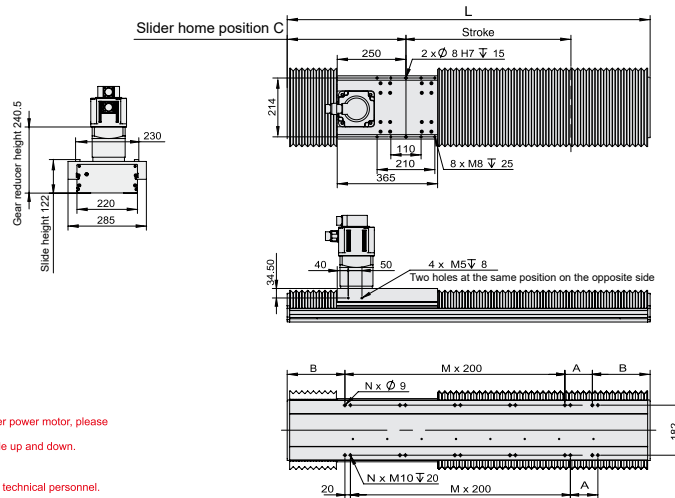
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	1000	220	HG-SN102J-S100	MR-JE-100A
		With Brake (Vertical Type)	1000	220	HG-SN102BJ-S100	MR-JE-100A
Panasonic	P	No Brake (Horizontal Type)	1000	220	MDMF102L1G6M	MDDL45SE
		With Brake (Vertical Type)	1000	220	MDMF102L1H6M	MDDL45SE
Delta	T	No Brake (Horizontal Type)	1000	220	ECM-B3M-E21310RS1	ASD-B3-1021-L
		With Brake (Vertical Type)	1000	220	ECM-B3M-E21310SS1	ASD-B3-1021-L

Motor Exposed

BC Motor Exposed

Unit : mm

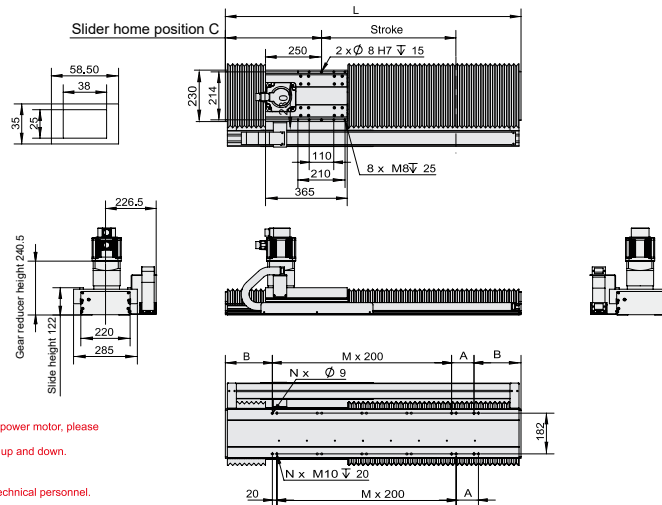


- *1: The motor size and the output is 1000 w. With other power motor, please confirm with our company technical personnel.
- *2: The installation of the ontology standard thread hole up and down.
- *3: the motor is only directly type installation.
- *4: the weight without motor.
- *5: when travel more than 2800 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800
L	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120	3240	3360	3480	3600	3720	3840	3960
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
B	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430
C	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
KG	64.64	67.44	70.24	73.04	75.84	78.64	81.44	84.24	87.04	89.84	92.64	95.44	98.24	101	103.8	106.6	109.4	112.2	115

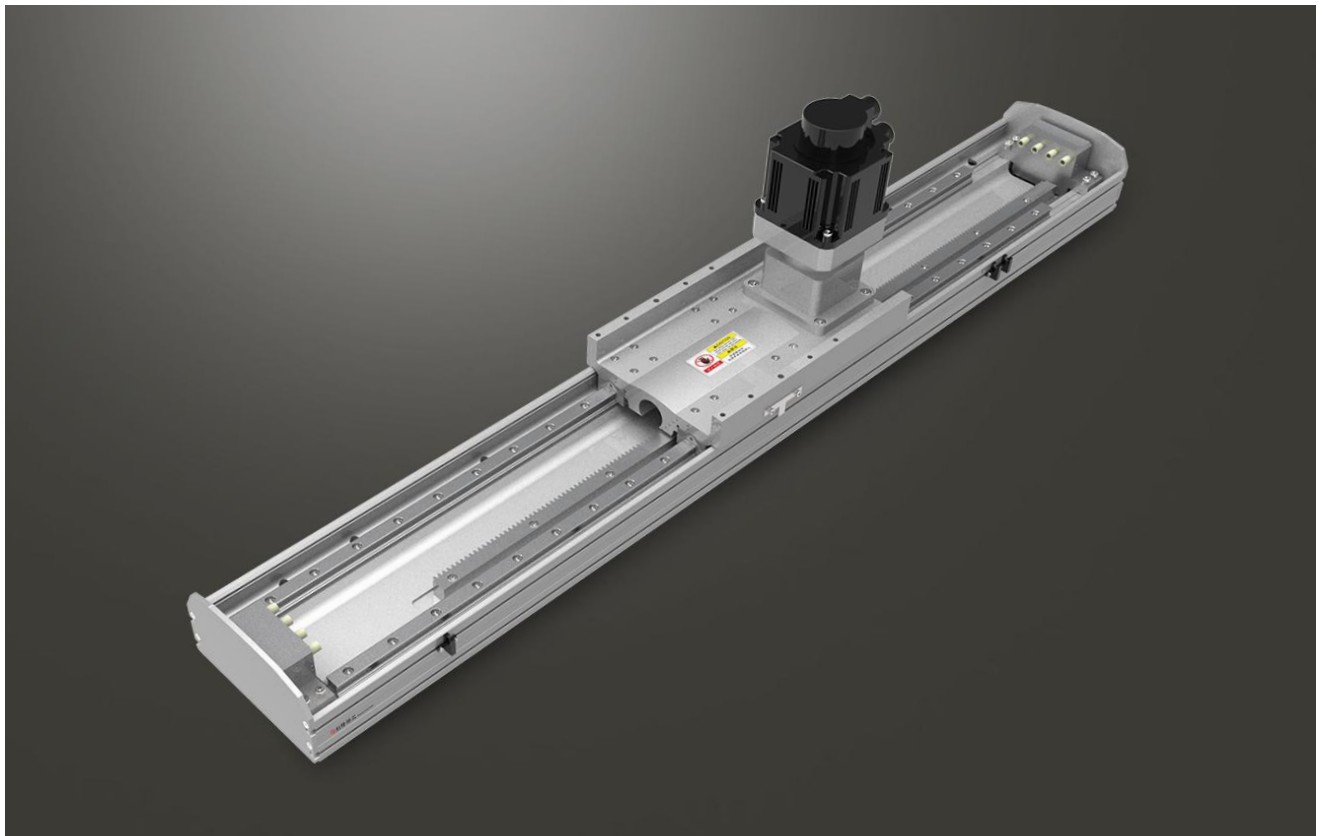
Including Drag Chains

Unit : mm



- *1: The motor size and the output is 1000 w. With other power motor, please confirm with our company technical personnel.
- *2: The installation of the ontology standard thread hole up and down.
- *3: the motor is only directly type installation.
- *4: the weight without motor.
- *5: when travel more than 2800 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800
L	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120	3240	3360	3480	3600	3720	3840	3960
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
B	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430
C	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
KG	64.64	67.44	70.24	73.04	75.84	78.64	81.44	84.24	87.04	89.84	92.64	95.44	98.24	101	103.8	106.6	109.4	112.2	115



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3900mm**

Maximum Speed **1666mm/s**

Motor Output **2000W**

Rack **M3**

Linear Guide **23X20 -2 stick**

※ The maximum speed depends on different gear ratio.

Ordering Method

WCT 27 - L7/35.70 - 100 - BC-T2000W-C 4

Model

Reduction Ratio With Lead

Stroke

	Reduction ratio	Lead
5	5:1	49.98
7	7:1	35.70
10	10:1	24.99
15	15:1	16.66
20	20:1	12.49

1000-3900mm
100 mm Pitch

Motor Position

Motor Installation

Motor Output

Home Sensor

Limit Sensor

BC	Motor Direct
BL	Right Angle Reduction Machine

T/P	General motor installation standard:
	Panasonic
	Delta
M	Panasonic Motor Installation Standards

400W	-
750W	-
1000W	-
2000W	2000W

	In Side
A	In Side
	Out Side
C	Out Side
	No Sensor
E	No Sensor

	Out Side
3	2Pc
4	3Pc
5	No Sensor

Specification

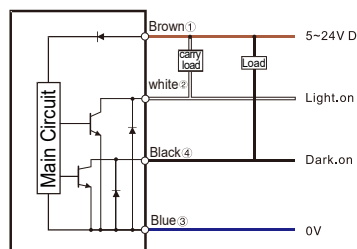
Spec	Repeatability (mm)		±0.04				
	Driving Power (w)		2000				
	Reduction ratio		5:1	7:1	10:1	15:1	20:1
	Gear Lead (mm)		49.98	35.70	24.99	16.66	12.49
	Maximum Speed (mm/s)		1666	1190	833	555	416
	Maximum Payload	Horizontal (kg)	75	170	300	400	500
		Vertical (kg)	30	58	80	84	100
	Rated Thrust (N)		1020	1428	2040	3059	4080
	Stroke Pitch (mm)		1000-3900mm/100 100 mm Pitch				
	(RPM)		2000				
	Home Sensor	Built-In	672 (NPN/ PNP)				

※Choose the real motor please according to the motor parameters calculated the above specifications.

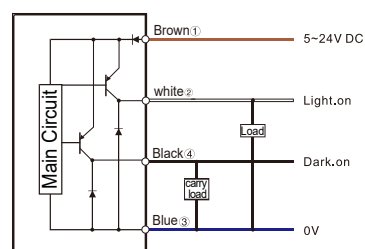
※If the speed exceeds the use requirements, can replace the 3000 rpm motor, specific parameters please contact our division technology

Sensor Layout

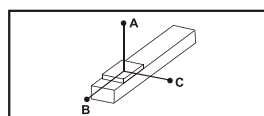
DC four-wire NPN output



DC four-wire PNP output

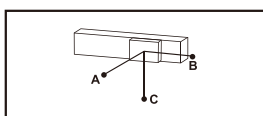


Allowable Overhang



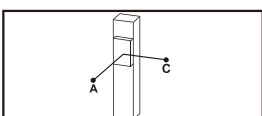
(Unit : mm)

Horizontal installation		A	B	C
5:1	75kg	3692	2220	1008
7:1	170kg	2086	890	440
10:1	300kg	1552	439	234
15:1	400kg	1382	293	162
20:1	500kg	1250	230	110



(Unit : mm)

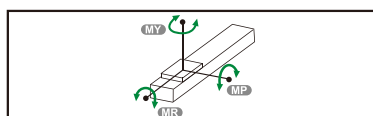
Wall Installation		A	B	C
5:1	75kg	967	2131	3510
7:1	170kg	396	801	1882
10:1	300kg	186	350	1234
15:1	400kg	113	204	961
20:1	500kg	85	145	850



(Unit : mm)

Vertical Installation		A	C
5:1	30kg	3676	3676
7:1	58kg	2120	2120
10:1	80kg	2134	2134
15:1	84kg	2153	2153
20:1	100kg	980	980

Static Loading Moment



(Unit : mm)

MY	5798
MP	5798
MR	4792

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

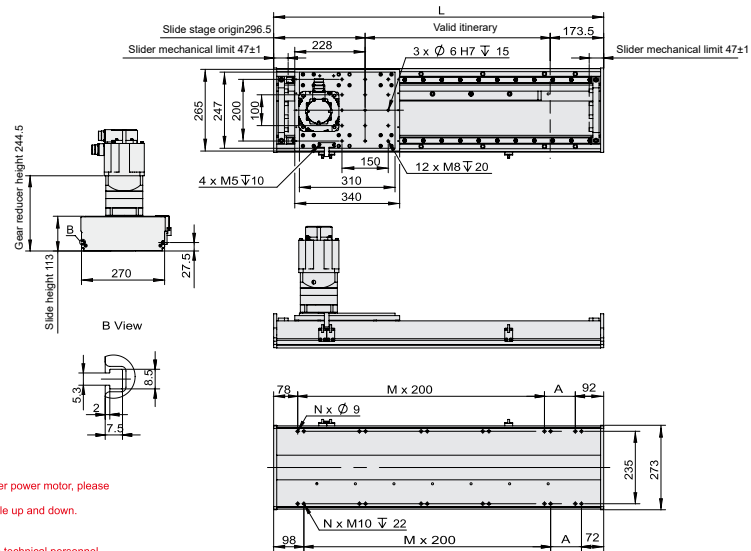
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	2000	220	HG-SN202J-S100	MR-JE-200A
		With Brake (Vertical Type)	2000	220	HG-SN202BJ-S100	MR-JE-200A
Panasonic	P	No Brake (Horizontal Type)	2000	220	MDMF202L1G6M	MEDLN83SE
		With Brake (Vertical Type)	2000	220	MDMF202L1H6M	MEDLN83SE
Delta	T	No Brake (Horizontal Type)	2000	220	ECM-B3M-E21320RS1	ASD-B3-2023-L
		With Brake (Vertical Type)	2000	220	ECM-B3M-E21320SS1	ASD-B3-2023-L

Motor Exposed

BC Motor Exposed

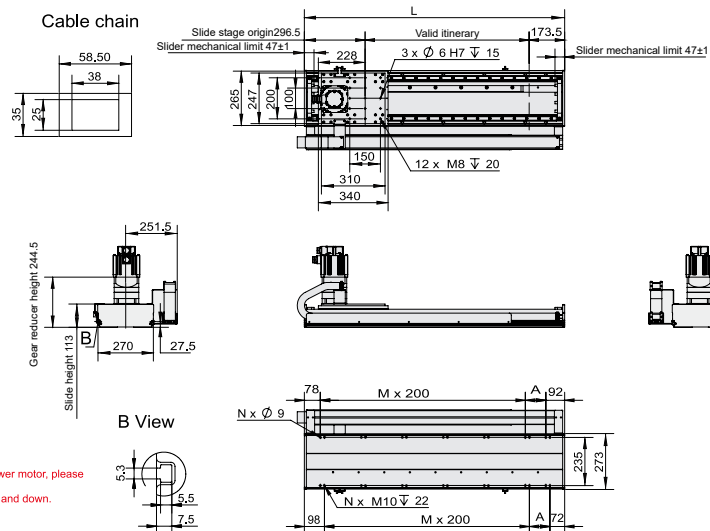
Unit : mm



stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900
L	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	17	17	18	18
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	38	38	40	40
KG	72.64	76.68	80.72	84.76	88.8	92.84	96.88	100.92	104.96	109	113.04	117.08	121.12	125.16	129.2	133.24	137.28	141.32	145.36	149.4	153.44	157.48	161.52	165.56	169.6	173.64	177.68	181.72	185.76	189.8

Including Drag Chains

Unit : mm



stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900
L	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	17	17	18	18
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	38	38	40	40
KG	72.64	76.68	80.72	84.76	88.8	92.84	96.88	100.92	104.96	109	113.04	117.08	121.12	125.16	129.2	133.24	137.28	141.32	145.36	149.4	153.44	157.48	161.52	165.56	169.6	173.64	177.68	181.72	185.76	189.8



The picture is just for the reference. Please check the the actual dimensions on the drawing.

Maximum Stroke **3300mm**

Maximum Speed **1665mm/s**

※ The maximum speed depends on different g

Motor Output **2000W**

Rack **M3**

Linear Guide **23X20 -2 stick**

Ordering Method

WCT27F - L7/35.70 - 100 - BC-T2000W-A 2

Model		Reduction Ratio With Lead		Stroke					
			Reduction ratio	Lead	1000-3900mm				
		5	5:1	49.98	100 mm Pitch				
		7	7:1	35.70					
		10	10:1	24.99					
		15	15:1	16.66					
		20	20:1	12.49					
Motor Position		Motor Installation		Motor Output		Home Sensor		Limit Sensor	
BC	Motor Direct	T/P	General motor installation standard:	400W	-	In Side		Out Side	
			Panasonic	750W	-	A	In Side	3	2Pc
BL	Right Angle Reduction Machine	M	Delta	1000W	-	Out Side		4	3Pc
	Panasonic Motor Installation Standards		2000W	2000W	C	Out Side	5	No Sensor	
						No Sensor			
						E	No Sensor		

Specification

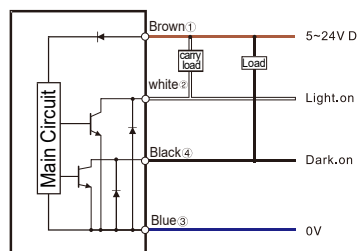
Spec	Repeatability (mm)		±0.04				
	Driving Power (w)		2000				
	Reduction ratio		5:1	7:1	10:1	15:1	20:1
	Gear Lead (mm)		49.98	35.70	24.99	16.66	12.49
	Maximum Speed (mm/s)		1666	1190	833	555	416
	Maximum Payload	Horizontal (kg)	75	170	300	400	500
		Vertical (kg)	30	58	80	84	100
	Rated Thrust (N)		1020	1428	2040	3059	4080
	Stroke Pitch (mm)		1000-3300mm/100				
	(RPM)		2000				
Home Sensor		Outside	672 (NPN/ PNP)				

※ Choose the real motor please according to the motor parameters calculated the above specifications.

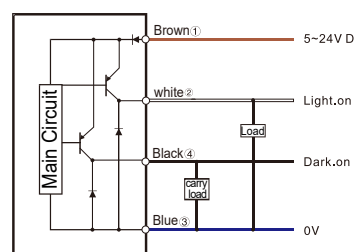
※ If the speed exceeds the use requirements, can replace the 3000 rpm motor, specific parameters please contact our division technology.

Sensor Layout

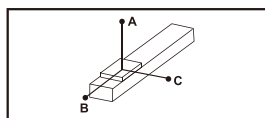
DC four-wire NPN output



DC four-wire PNP output

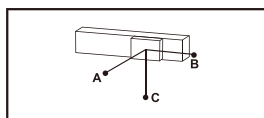


Allowable Overhang



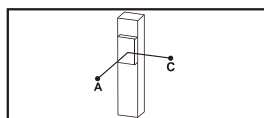
(Unit : mm)

Horizontal installation	A	B	C
5:1	75kg	3692	2220
7:1	170kg	2086	890
10:1	300kg	1552	439
15:1	400kg	1382	293
20:1	500kg	1250	230



(Unit : mm)

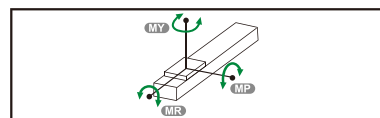
Wall Installation	A	B	C
5:1	75kg	967	2131
7:1	170kg	396	801
10:1	300kg	186	350
15:1	400kg	113	204
20:1	500kg	85	145



(Unit : mm)

Vertical Installation	A	C
5:1	30kg	3676
7:1	58kg	2120
10:1	80kg	2134
15:1	84kg	2153
20:1	100kg	980

Static Loading Moment



(Unit : mm)

MY	5798
MP	5798
MR	4792

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use.
 Contact us for the details if you want to apply ceiling-mount inverse usage.

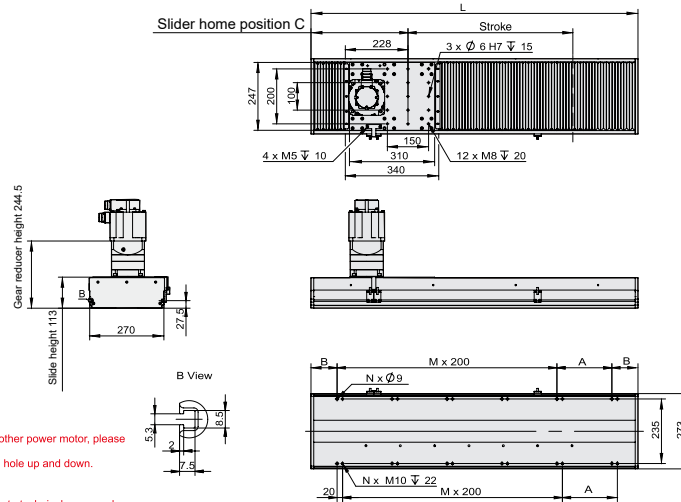
Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	2000	220	HG-SN202J-S100	MR-JE-200A
		With Brake (Vertical Type)	2000	220	HG-SN202BJ-S100	MR-JE-200A
Panasonic	P	No Brake (Horizontal Type)	2000	220	MDMF202L1G6M	MEDLN83SE
		With Brake (Vertical Type)	2000	220	MDMF202L1H6M	MEDLN83SE
Delta	T	No Brake (Horizontal Type)	2000	220	ECM-B3M-E21320RS1	ASD-B3-2023-L
		With Brake (Vertical Type)	2000	220	ECM-B3M-E21320SS1	ASD-B3-2023-L

Motor Exposed

BC Motor Exposed

Unit : mm

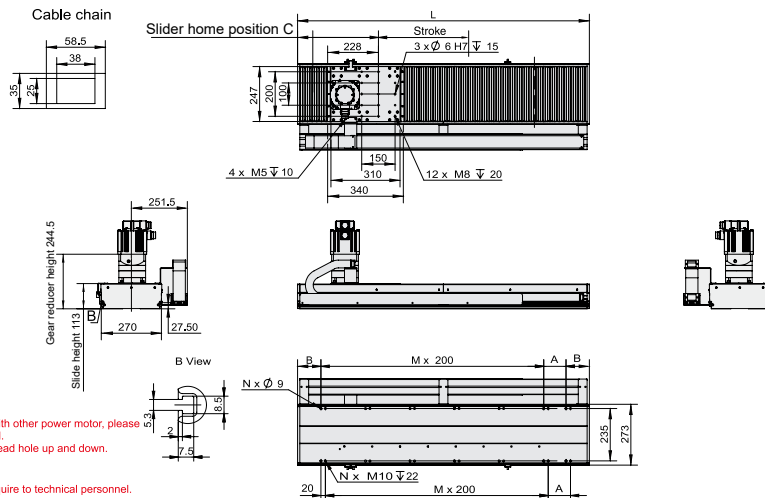


- ※1: The motor size and the output is 2000 w. With other power motor, please confirm with our company technical personnel.
- ※2: The installation of the ontology standard thread hole up and down.
- ※3: the motor is only directly type installation.
- ※4: the weight without motor.
- ※5: when travel more than 3300 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
L	1670	1790	1910	2030	2150	2270	2390	2510	2630	2750	2870	2990	3110	3230	3350	3470	3590	3710	3830	3950	4070	4190	4310	4430
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40
B	135	145	155	165	175	185	195	205	215	225	235	245	255	265	275	285	295	305	315	325	335	345	355	365
C	393	403	413	423	433	443	453	463	473	483	493	503	513	523	533	543	553	563	573	583	593	603	613	623
KG	78.46	82.5	86.54	90.58	94.62	98.66	102.7	106.74	110.78	114.82	118.86	122.9	126.94	130.98	135.02	139.06	143.1	147.14	151.18	155.22	159.26	163.3	167.34	171.38

Including Drag Chains

Unit : mm



- ※1: The motor size and the output is 2000 w. With other power motor, please confirm with our company technical personnel.
- ※2: The installation of the ontology standard thread hole up and down.
- ※3: the motor is only directly type installation.
- ※4: the weight without motor.
- ※5: when travel more than 3300 mm, please inquire to technical personnel.

stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300
L	1670	1790	1910	2030	2150	2270	2390	2510	2630	2750	2870	2990	3110	3230	3350	3470	3590	3710	3830	3950	4070	4190	4310	4430
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18
N	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40
B	135	145	155	165	175	185	195	205	215	225	235	245	255	265	275	285	295	305	315	325	335	345	355	365
C	393	403	413	423	433	443	453	463	473	483	493	503	513	523	533	543	553	563	573	583	593	603	613	623
KG	78.46	82.5	86.54	90.58	94.62	98.66	102.7	106.74	110.78	114.82	118.86	122.9	126.94	130.98	135.02	139.06	143.1	147.14	151.18	155.22	159.26	163.3	167.34	171.38

MEMO



WGTB Series

Clean Room/Built-in Linear Motion Guide Ball Screw Actuator

CONTENTS

Clean Room/Bal Screw

SMALL		Body width: 54mm Maximum travel:1450mm Maximum load:5kg
WGTB5		349
MEDIUM		Body width: 82mm Maximum travel:1400mm Maximum load:15kg
WGTB8		352
MEDIUM		Body width: 120mm Maximum travel:1400mm Maximum load:25kg
WGTB12		356

Maximum Stroke **1200mm**Maximum Speed **2000mm/s**Motor Output **100w**Belt width **9mm**

Ordering Method

WGTB5 - L 40 - 100 - L - M10 - C 4 - 0001

Model

Lead

Stroke
50-1450mm

Special Order No.

Belt width

L Rubber Belt

Motor installation

L	Motor Top
R	Motor Bottom

Motor Brand	Power Output
P Panasonic	10 100W
M Mitsubishi	-
T Yaskawa	-

Home Sensor

Out Side

C	Motor Side
D	Opposite Motor Side
E	No Sensor

Out Side

3	2 Pc
4	3 Pc
5	No Sensor

※ When the stroke is 50mm, the sensor installation has the following restrictions:

1. Home sensor and limit sensor has to be installed on the different side of body.
2. Both sides of slider need to install the sensor trigger device.

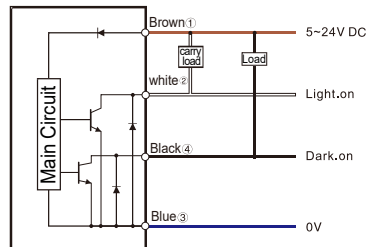
Specification

Spec	Repeatability (mm)		± 0.04
	Lead (mm)		40
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal (kg)	5
		Vertical (kg)	
	Rated Thrust (N)		48
	Stroke Pitch(mm)		50~1450mm/50interval
Parts	AC Servo Motor Output (W)		100W
	Belt Width(mm)		9
	Coupling(mm)		8X8
	Home Sensor	Outside	EE-SX674(NPN)

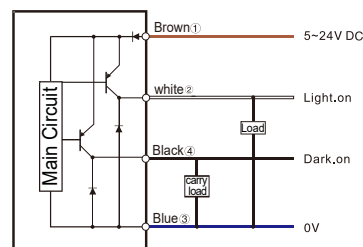
* Acceleration and deceleration value is set 0.4 second.

Sensor Layout

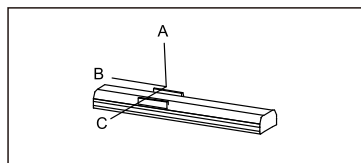
DC four-wire NPN output



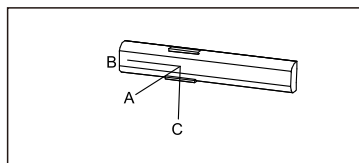
DC four-wire PNP output



N.m Allowable Overhang



(Unit : mm)



(Unit : mm)

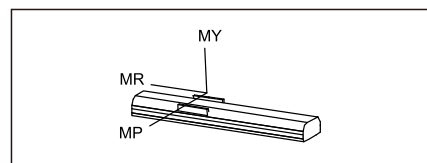
Horizontal installation	A	B	C
2kg	320	120	130
3.5kg	220	70	80
5kg	175	55	60

Wall Installation	A	B	C
2kg	130	120	320
3.5kg	75	70	320
5kg	65	55	170

*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions.

Static Loading Moment



(Unit : N·m)

Static Loading Moment

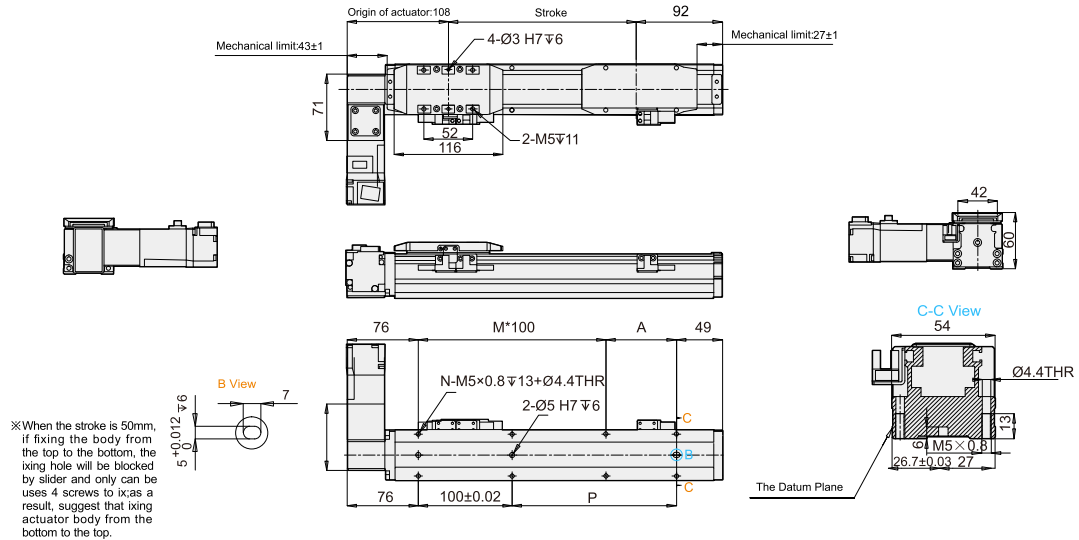
MY	103
MP	103
MR	144

Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
Panasonic	P	No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
Delta	T	No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B

Unit:mm

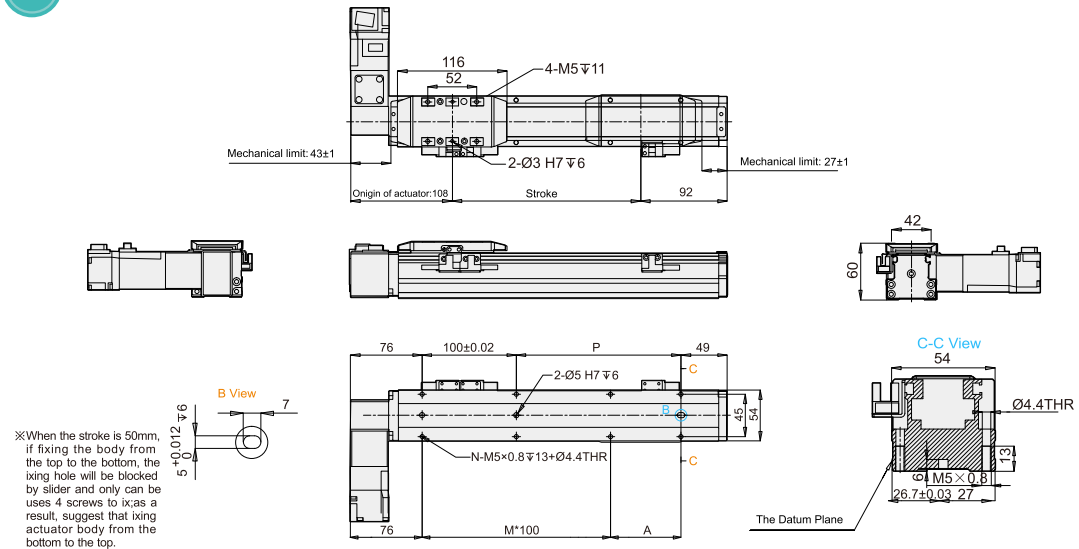
L Motor On Left Side



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
A	25	75	25	76	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85

R Motor On Right Side

Unit:mm



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
A	25	75	25	76	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85



Maximum Stroke 1400mm

Maximum Speed 2400mm/s

Motor Output 200w

Belt width 15mm

Ordering Method

WGTB8 - L 48 - 100 - L - M20 - C 4 - 0001

Model

Lead

Stroke

50-1400mm

Belt Type

L Rubber Belt

Motor Position

BW	Motor Upper Side
BM	Motor Bottom Side
L	Motor Left Side
R	Motor Right Side

Motor Brand

Power Output

P	Panasonic	20	200W
M	Mitsubishi		-
T	Yaskawa		-

Home Sensor

Out Side

C	Motor Side
D	Opposite Motor Side
E	No Sensor

Special Order No.

Out Side

3	2 Pc
4	3 Pc
5	No Sensor

※When the stroke is 50mm, the sensor installation has the following restrictions:

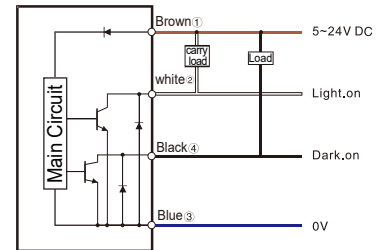
- 1.Home sensor and limit sensor has to be installed on the different side of body.
- 2.Both sides of slider need to install the sensor trigger device.

Specification

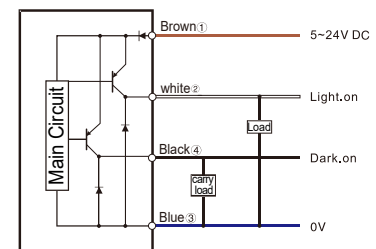
Spec	Repeatability (mm)		± 0.04
	Lead (mm)		48
	Maximum Speed (mm/s)		2400
	Maximum Payload	Horizontal (kg)	15
		Vertical (kg)	
	Rated Thrust (N)		80
	Stroke Pitch(mm)		50~1400mm/50interval
	AC Servo Motor Output (W)		200W
Parts	Belt Width(mm)		15
	Coupling(mm)		10X14(11) (注1)
	Home Sensor	Outside	EE-SX674(NPN)

Sensor Layout

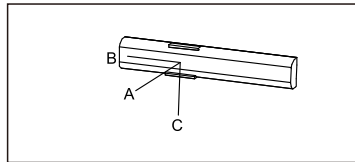
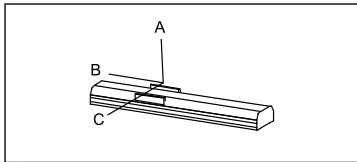
DC four-wire NPN output



DC four-wire PNP output



N.m Allowable Overhang



(Unit : mm)

Horizontal installation	A	B	C
5kg	850	322	395
10kg	560	185	226
15kg	473	135	156

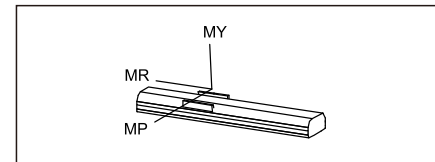
(Unit : mm)

Wall Installation	A	B	C
5kg	355	310	532
10kg	210	196	455
15kg	171	155	435

*The torque value in the chart indicate the center of gravity.

*Operation life is 5,000km when the product is using under the specified conditions.

Static Loading Moment



Static Loading Moment

(Unit : N·m)

MY	318
MP	318
MR	626

* Acceleration and deceleration value is set 0.4 second.

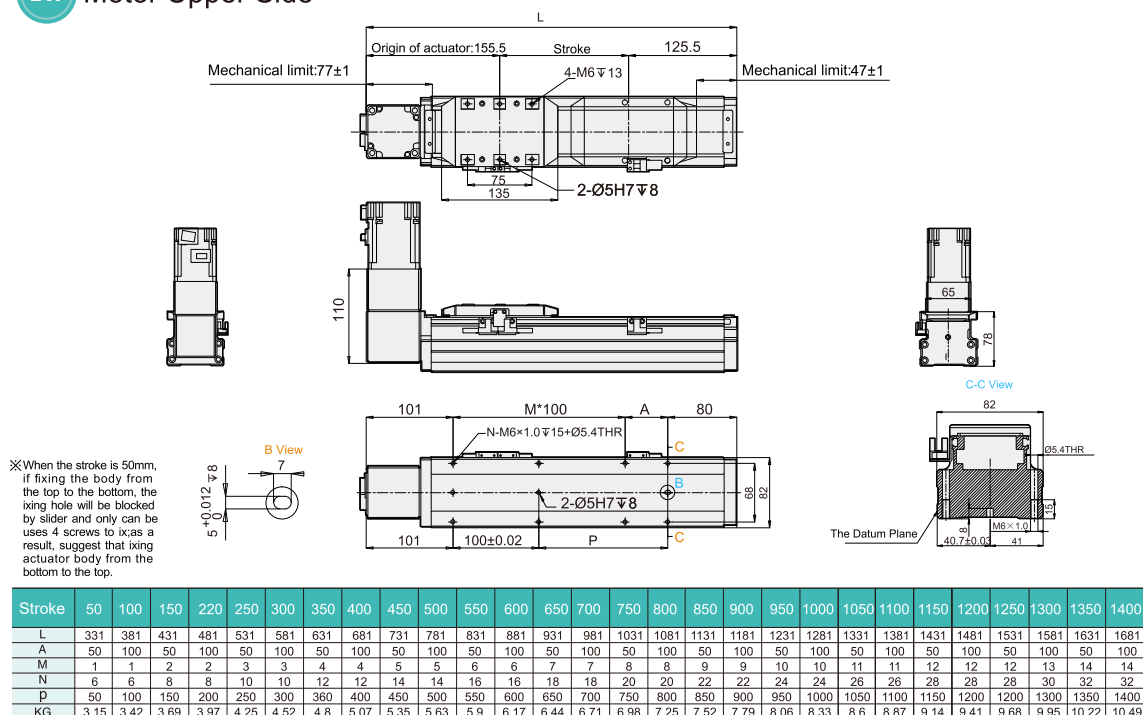
*Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

Suitable Motor Brand

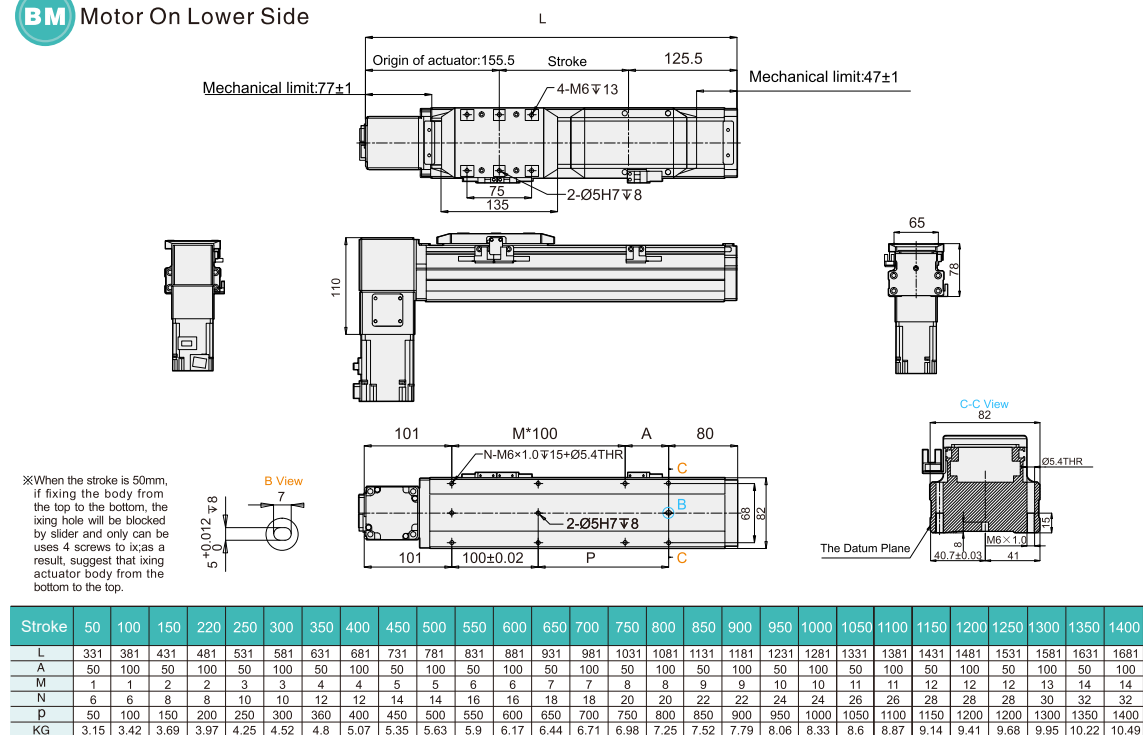
Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
Panasonic	P	No Brake (Horizontal Type)	200	220	MSMD022G1U	MADHT1507
Delta	T	No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B

 Motor Upper Side

Unit:mm

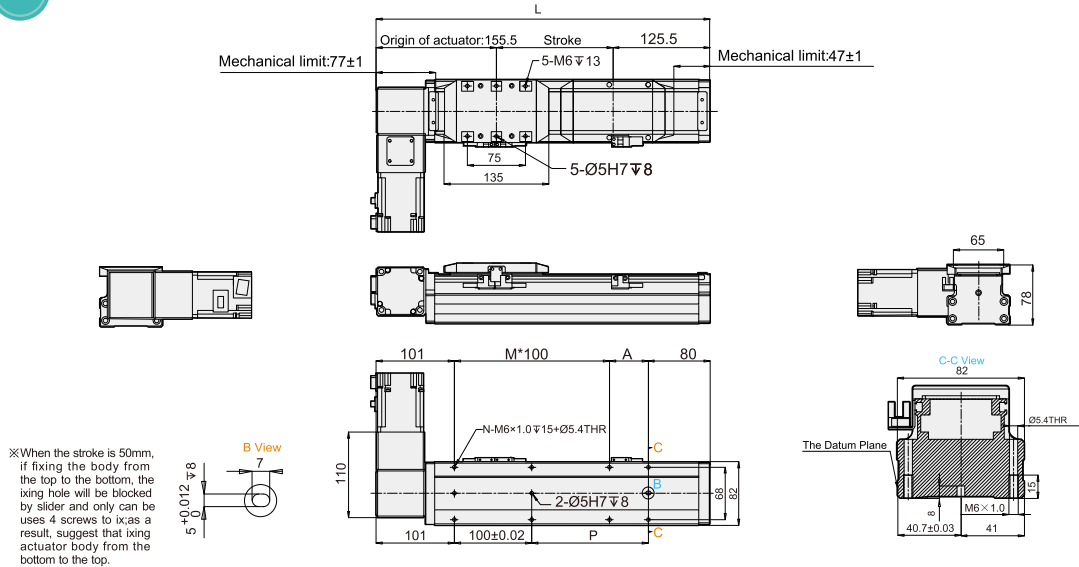

 Motor On Lower Side

Unit:mm



Unit:mm

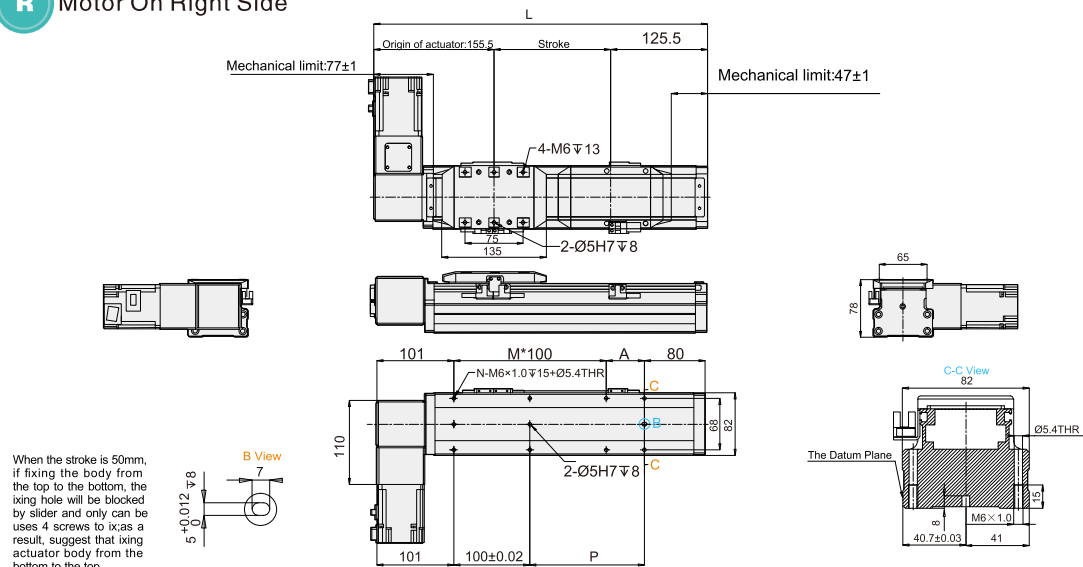
L Motor On Left Side



Stroke	50	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14	14
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	28	30	32	32
P	50	100	150	200	250	300	360	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1200	1300	1350	1400
KG	3.15	3.42	3.69	3.97	4.25	4.52	4.8	5.07	5.35	5.63	5.9	6.17	6.44	6.71	6.98	7.25	7.52	7.79	8.06	8.33	8.6	8.87	9.14	9.41	9.68	9.95	10.22	10.49

R Motor On Right Side

Unit:mm



Stroke	50	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14	14
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	28	30	32	32
P	50	100	150	200	250	300	360	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1200	1300	1350	1400
KG	3.15	3.42	3.69	3.97	4.25	4.52	4.8	5.07	5.35	5.63	5.9	6.17	6.44	6.71	6.98	7.25	7.52	7.79	8.06	8.33	8.6	8.87	9.14	9.41	9.68	9.95	10.22	10.49



Maximum Stroke 1400mm

Maximum Speed 2000mm/s

Motor Output 400w

Belt width 25mm

Ordering Method

WGTB12 - L - 40 - 100 - LD - P40 - Y - C 4 - 0001

Model

Lead

Stroke

100-1400mm

Motor Brand

Y 有

※ If No Brake, No Description.

Special Order No.

Belt Type

L Rubber Belt

Motor Position

L	Motor Upper Side
LU	Motor Bottom Side
LD	Motor Left Side
R	Motor Right Side
RU	Motor Left Side
RD	Motor Left Side

Motor Brand

Power Output

P	Panasonic	40	400W
M	Mitsubishi	-	-
T	Yaskawa	-	-

Home Sensor

Out Side

C	Motor Side
D	Opposite Motor Side
E	No Sensor

Out Side

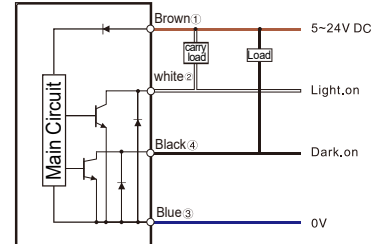
3	2 Pc
4	3 Pc
5	No Sensor

Specification

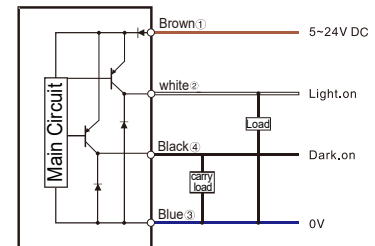
Spec	Repeatability (mm)		± 0.04
	Lead (mm)		40 *
	Maximum Speed (mm/s)		2000
	Maximum Payload	Horizontal (kg)	25
		Vertical (kg)	
	Rated Thrust (N)		185
	Stroke Pitch(mm)		50~1400mm/50interval
	AC Servo Motor Output (W)		400W
Parts	Belt Width(mm)		25
	Home Sensor	Outside	EE-SX672(NPN)

Sensor Layout

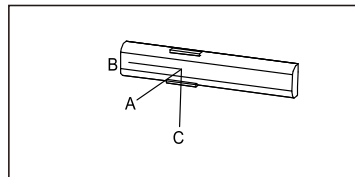
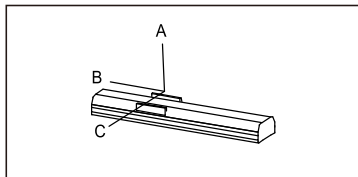
DC four-wire NPN output



DC four-wire PNP output



N.m Allowable Overhang

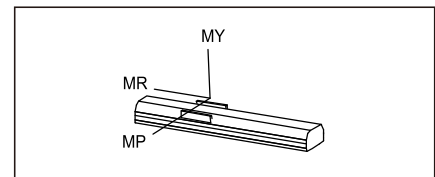


(Unit : mm)				(Unit : mm)			
Horizontal installation	A	B	C	Wall Installation	A	B	C
10kg	1885	735	564	10kg	365	458	1280
20kg	900	340	265	20kg	299	383	1009
25kg	703	303	206	25kg	206	263	703

*The torque value in the chart indicate the center of gravity.

*Operation life is 10000km when the product is using under the specified conditions.

Static Loading Moment



Static Loading Moment (Unit : N·m)	
MY	606
MP	606
MR	1168

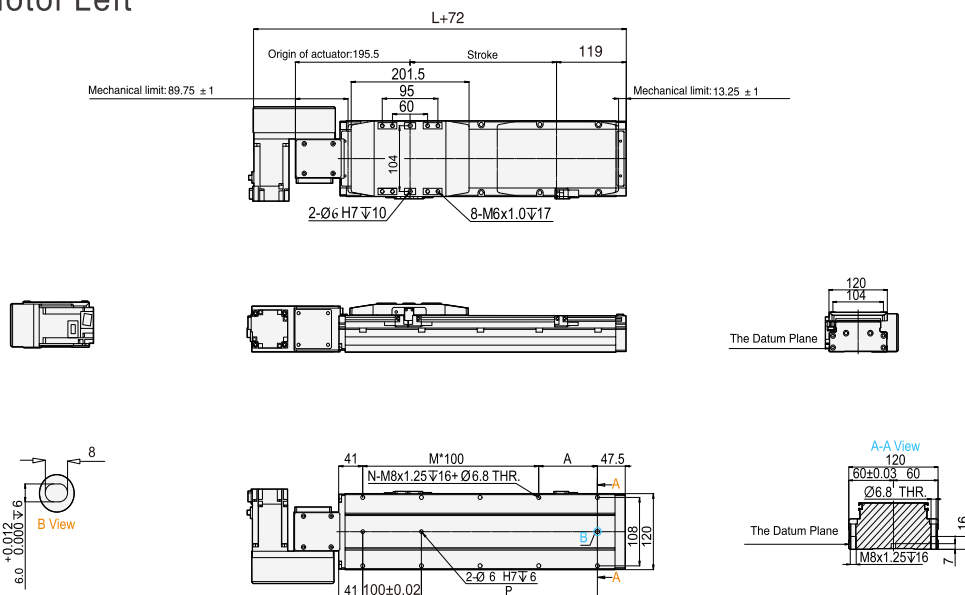
* Acceleration and deceleration value is set 0.4 second.
*With a reduction ratio of 1:2.5

Suitable Motor Brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor Model	Driver Model
Mitsubishi	M	No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
Panasonic	P	No Brake (Horizontal Type)	400	220	MSMD042G1U	MADHT2510
Delta	T	No Brake (Horizontal Type)	400	220	ECMA-C20604ES	ASD-B20421-B

Unit:mm

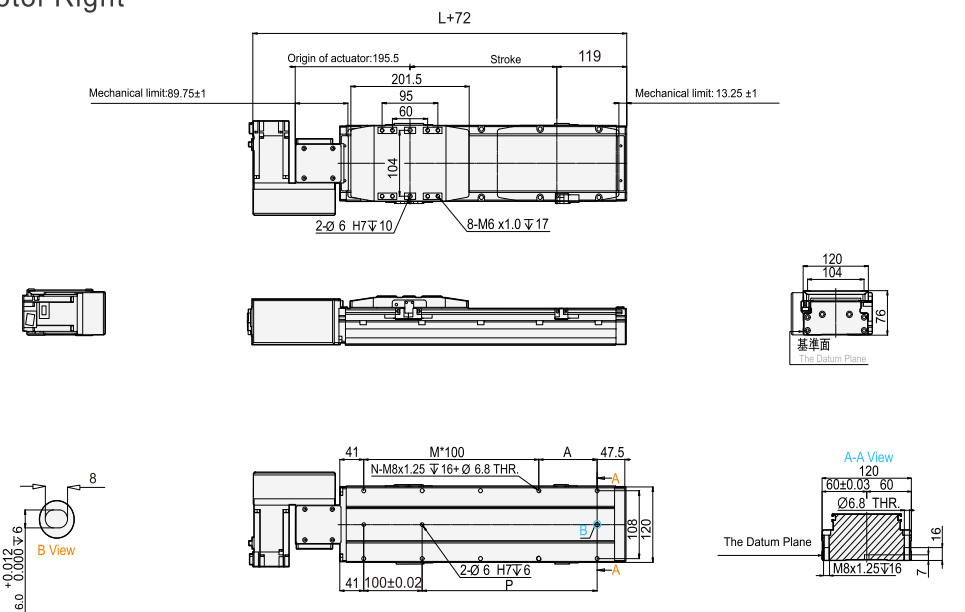
L Motor Left



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

R Motor Right

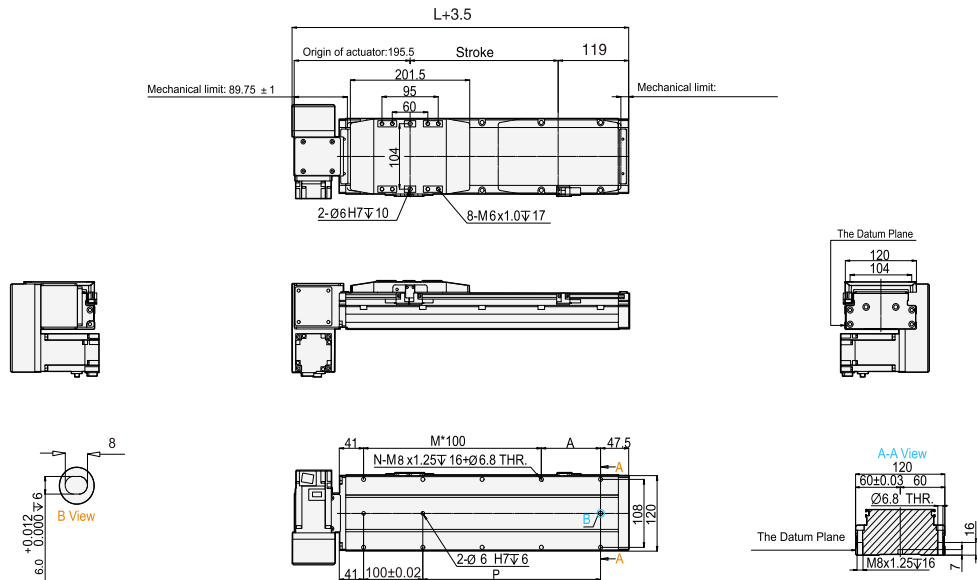
Unit:mm



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

LD Motor Lower Left

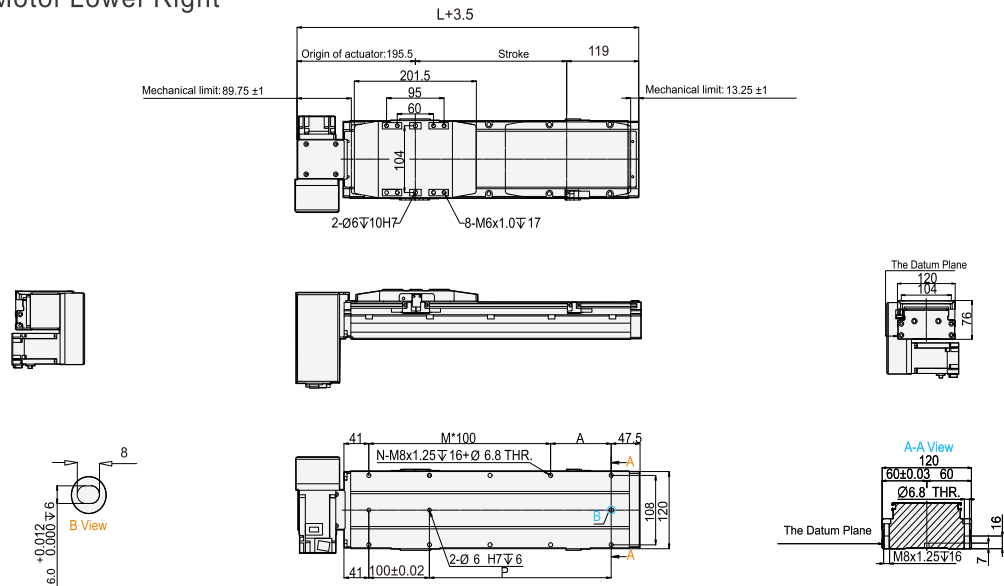
Unit:mm



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

RD Motor Lower Right

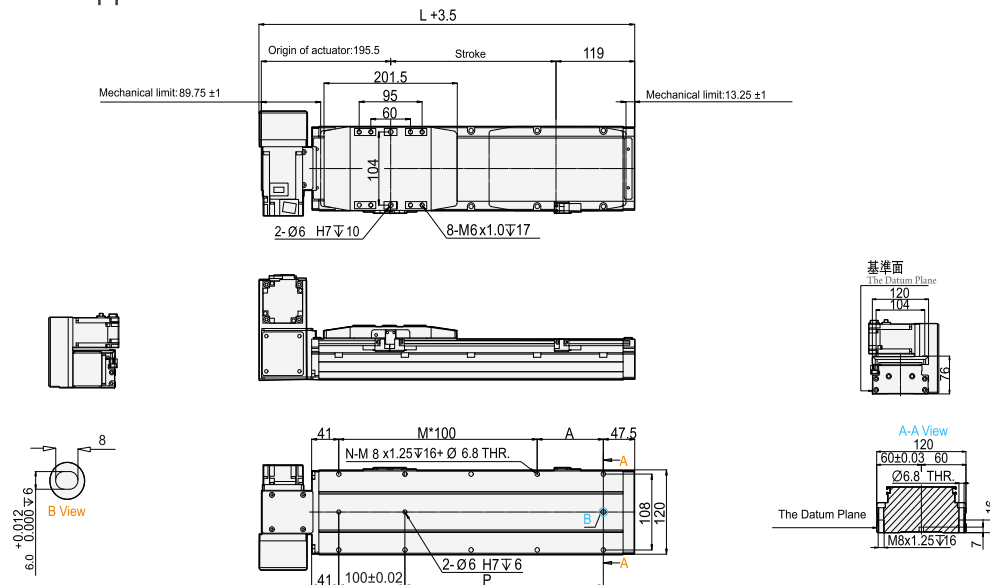
Unit:mm



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

Unit:mm

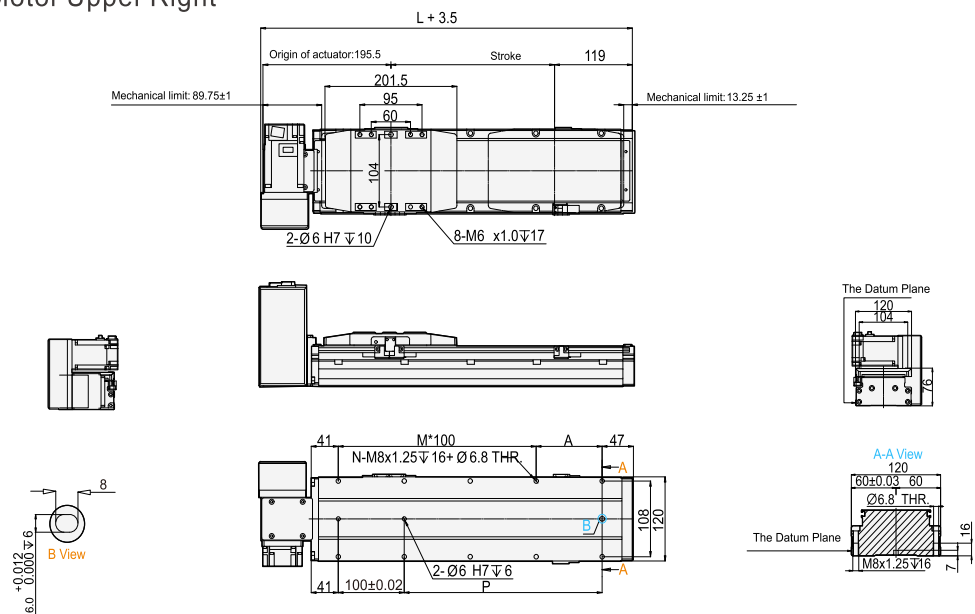
LU Motor Upper Left



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

RU Motor Upper Right

Unit:mm



Stroke	100	150	220	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13	14
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34
P	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
KG	5.99	6.34	6.70	7.06	7.42	7.78	8.13	8.49	8.85	9.21	9.57	9.92	10.28	10.64	11.00	11.36	11.71	12.07	12.43	12.79	13.15	13.50	13.86	14.22	14.58	14.94	15.29

MEMO



WDKK Series

Singel Axis Robot

CONTENTS

Clean Room/Bal Screw

SMALL

WDKK40



Body width: 40mm
Maximum travel: 136mm.....374

MEDIUM

WDKK86



Body width: 86mm
Maximum travel: 816.5mm.....376

SMALL

WDKK50



Body width: 50mm
Maximum travel: 220mm.....374

LARGE

WDKK100



Body width: 100mm
Maximum travel: 1228mm.....377

SMALL

WDKK60



Body width: 60mm
Maximum travel: 510mm.....375

LARGE

WDKK130



Body width: 130mm
Maximum travel: 1511mm.....377

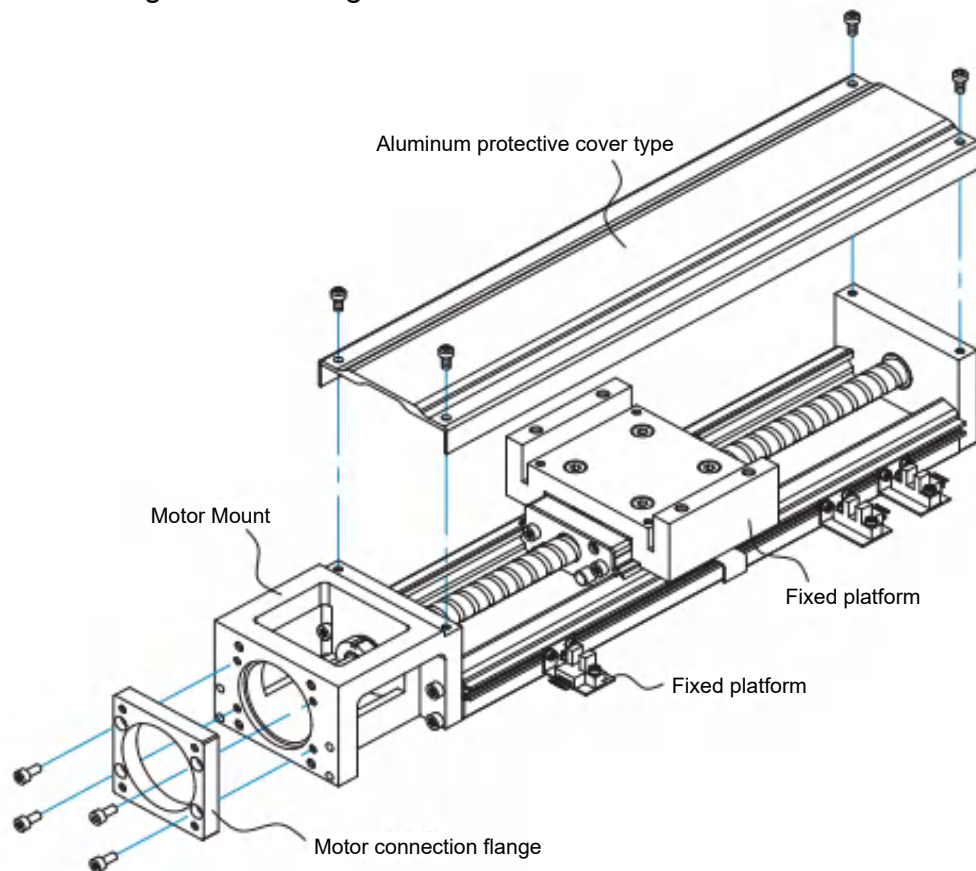
Choose Accessories

To meet various usage needs, the WDKK single-axis robot can optionally be equipped with an aluminum cover, a telescopic cover, a motor mounting flange, and limit switches.

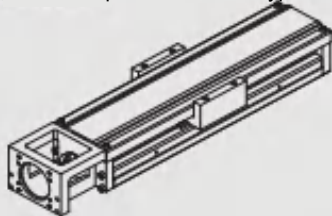
◎ Aluminum cover and telescopic cover: prevent foreign objects and debris from entering the WDKK single-axis robot, thereby protecting its lifespan, accuracy, and smooth operation

◎ Motor mounting flange: allows various motors to be securely attached to the WDKK single-axis robot

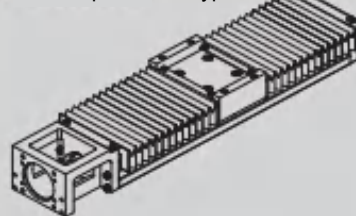
◎ Limit switches: provide slider positioning, homing, and a safety mechanism to prevent the slider from exceeding its travel range



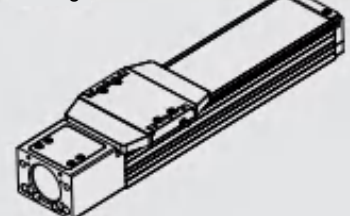
• Aluminum protective cover type



• Telescopic sheath type

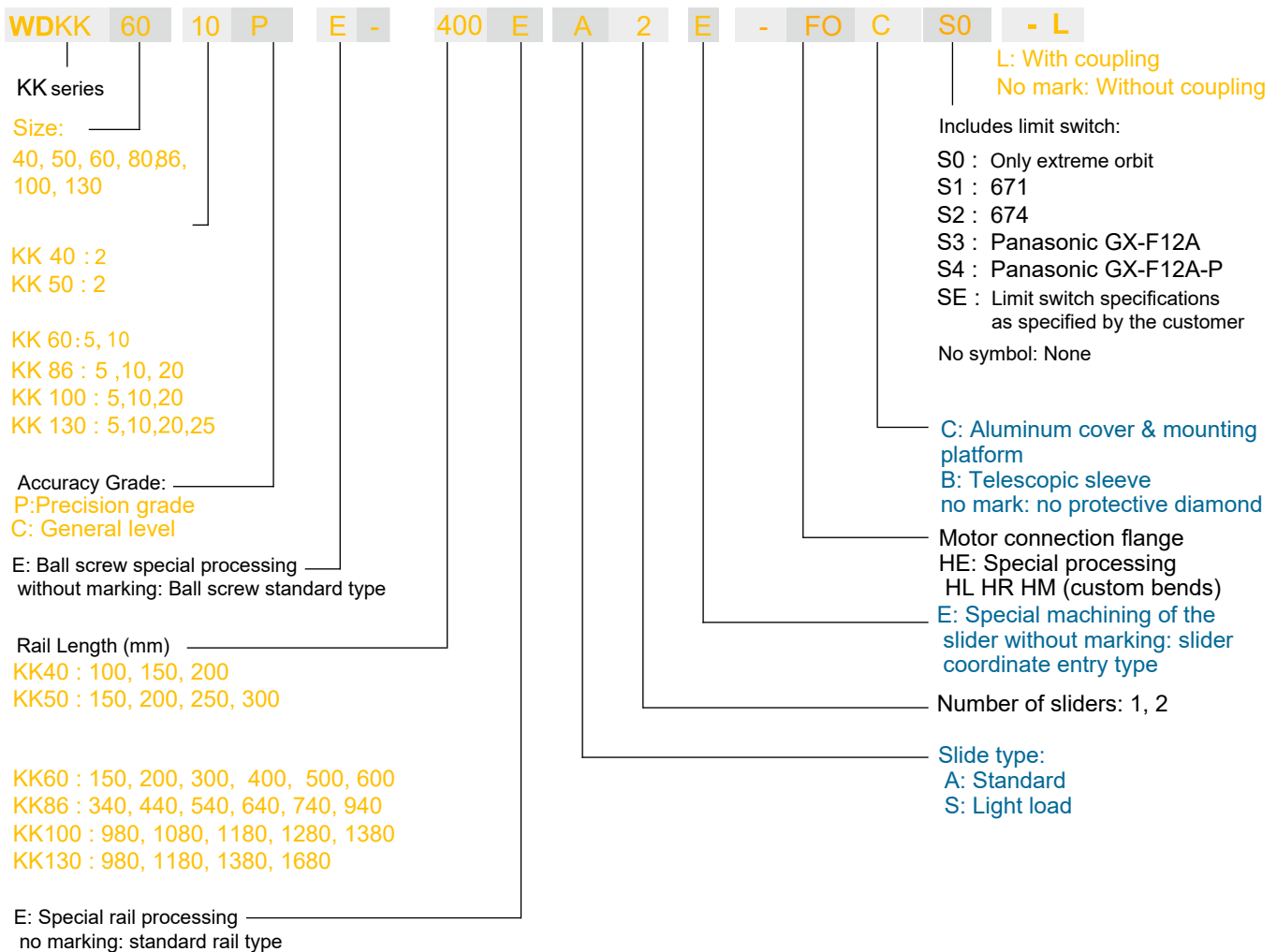


• Sealing

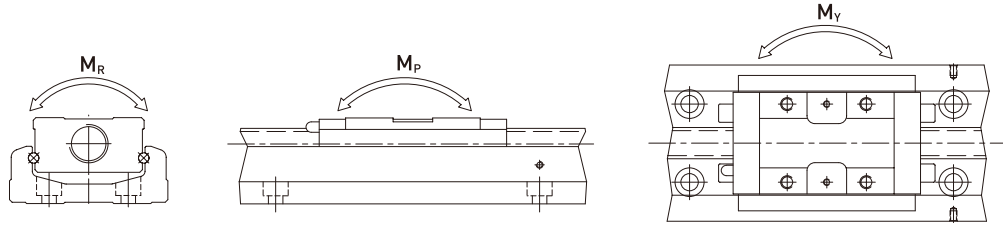


Product Model

Product Model



Load Specifications



Model		Ball screw				Linear slide rail																			
		Nominal Outer Diameter (mm)	Lead (mm)	Basic Rated Load (N)	Basic static rated load (N)	Allow static moment																			
						Basic Rated Load (N)				PitchM _P (N-m)								YawM _Y (N-m)				ScrollM _R (N-m)			
						Sliding seat A	Sliding seat S	Sliding seat A	Sliding seat S	Sliding seat A1	Sliding seat A2	Sliding seat S1	Sliding seat S2	Sliding seat A1	Sliding seat A2	Sliding seat S1	Sliding seat S2	Sliding seat A1	Sliding seat A2	Sliding seat S1	Sliding seat S2				
WDKK4001	Precision grade	8	1	735	1538	3920	-	6468	-	33	182	-	-	33	182	-	-	81	162	-	-				
	General level			676	1284																				
WDKK5002	Precision grade	8	2	2136	3489	8007	-	12916	-	116	545	-	-	116	545	-	-	222	444	-	-				
	General level			1813	2910																				
WDKK6005	Precision grade	12	5	3744	6243	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482				
	General level			3377	5625																				
WDKK6010	Precision grade	12	10	2410	3743	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482				
	General level			2107	3234																				
WDKK8610	Precision grade	15	10	7144	12642	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694				
	General level			6429	11387																				
WDKK8620	Precision grade	15	20	4645	7655	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694				
	General level			4175	6889																				
WDKK10020	Precision grade	20	20	7046	12544	39200	-	63406	-	960	4763	-	-	960	4763	-	-	2205	4410	-	-				
	General level			4782	9163																				
WDKK13025	Precision grade	25	25	7897	15931	48101	-	84829	-	1536	7350	-	-	1536	7350	-	-	3885	7770	-	-				
	General level			7092	14352																				

Walking parallelism

Accuracy Grade

unit: mm

Model	Guide rail length	Positioning repeatability		Positioning accuracy		Walking parallelism		Maximum Starting Torque (N-cm)	
		Precision grade	General level	Precision grade	General level	Precision grade	General level	Precision grade	General level
WDKK40	100	±0.003	±0.005	0.020	-	0.010	-	1.2	0.8
	150								
	200								
WDKK50	150	±0.003	±0.005	0.020	-	0.010	-	4	2
	200								
	250								
	300								
WDKK60	150	±0.003	±0.005	0.020	-	0.010	-	15	7
	200								
	300								
	400								
	500	±0.003	±0.005	0.025	-	0.015	-	15	7
	600								
WDKK86	340	±0.003	±0.005	0.025	-	0.015	-	15	10
	440								
	540								
	640								
	740	±0.003	±0.005	0.030	-	0.020	-	17	10
	940	±0.003	±0.005	0.040	-	0.030	-	25	10
WDKK100	980	±0.005	±0.01	0.035	-	0.025	-	17	12
	1080								
	1180	±0.005	±0.01	0.040	-	0.03	-	20	12
	1280	±0.005	±0.01	0.045	-	0.035	-	23	15
	1380			0.05		0.04		25	
WDKK130	980	±0.005	±0.01	0.035	-	0.025	-	25	15
	1180			0.04		0.03		25	15
	1380								
	1680	±0.007	±0.012	0.05	-	0.04	-	27	18

Maximum speed

Model	Ball screw lead (mm)	Track length L2 (mm)	Speed (mm/sec)	
			Precision grade	General level
WDKK40	01	100	190	190
		150	190	190
		200	190	190
WDKK50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270
WDKK60	05	150	550	390
		200	550	390
		300	550	390
		400	550	390
		500	550	390
		600	340	340
	10	150	1100	790
		200	1100	790
		300	1100	790
		400	1100	790
		500	1100	790
		600	670	670
WDKK86	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
		940	610	430
	20	340	1480	1050
		440	1480	1050
		540	1480	1050
		640	1480	1050
		740	1480	1050
		940	1220	870
WDKK100	20	980	1120	800
		1080	980	800
		1180	750	750
		1280	630	630
		1380	530	530
WDKK130	25	980	1120	800
		1180	1120	800
		1380	830	800
		1680	550	550

Load Factor (Reference Table 2)

Calculation of Lifespan

>>> Lifespan

When a linear slide rail is under load and in motion, the raceway surface and the steel balls are continuously subjected to cyclic stress. Once the rolling fatigue reaches its critical value, the contact surface will begin to experience fatigue failure, and parts of the surface will exhibit a flaking pattern resembling fish scales. This phenomenon is called surface spalling. The lifespan is defined as the distance traveled until surface spalling occurs on the raceway surface and steel balls due to material fatigue.

>>> Rated lifespan

The lifespan of a single-axis robot is highly variable. Even products from the same production batch can have different lifespans under the same operating conditions. Therefore, the rated lifespan is used to define the baseline for the operational lifespan of the WDKK module.

>>> Rated Life Calculation of WDKK Module

The lifespan calculation of a single-axis robot can be divided into two parts, including the linear guide and the ball screw, with the smaller value obtained during the calculation process being taken as the rated life of the module. The calculation formulas are as follows:

◎ Linear slide rail

$$L = \left(\frac{f_t}{f_w} \cdot \frac{C}{P_n} \right)^3 \times 50 \text{ km}$$

L : Rated lifespan (km)
 f_t : Contact coefficient
 (see Table 1)
 f_w : Load Factor
 (See Table 2)

C : Basic Rated Load (N)
 P_n : Workload (N)

Table 1

Sliding seat type	Contact coefficient f_t
A1, S1	1.0
A2, S2	0.81

Table 2

Work environment		Contact coefficient f_w
Load condition	Speed (v)	
No impact and smooth	Low speed $V < 15\text{m/min}$	1.0 ~ 1.5
Normal load	Medium speed $15 < V < 60\text{m/min}$	1.5 ~ 2.0
Subjected to impact and vibration	High-speed $V > 60\text{m/min}$	2.0 ~ 3.5

◎ Ball screws and bearings

$$L = \left(\frac{1}{f_w} \cdot \frac{C_a}{P_{a,n}} \right)^3 \times 10^6 \text{ rev}$$

L : Rated Life
 (Number of Rotations)
 f_w : Load Factor
 (Reference Table 2)

C_a : Basic Dynamic Rated Load (N)
 $P_{a,n}$: Axial Working Load (N)

Lubrication

If a WDKK single-axis robot is not properly lubricated, the friction in the rolling parts will increase, which over time can become a major cause of reduced lifespan. Lubricants provide the following functions:

- Reduce friction in the rolling parts, prevent overheating, and decrease wear.
- Form an oil film between rolling surfaces, which can extend rolling fatigue life.
- Prevent corrosion.

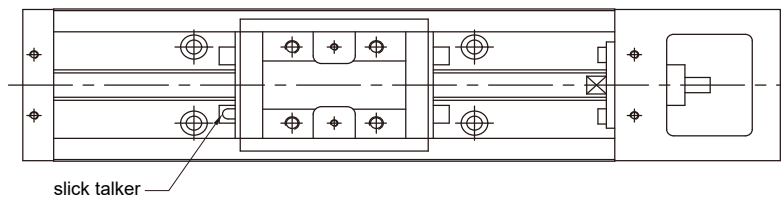
>>> Lubricating grease

Although lubricating grease is less likely to be lost, to prevent insufficient lubrication caused by lubricant consumption, it is recommended that customers add grease again after every 100 km. At this time, a grease gun can be used to inject the grease into the slider through the oil nozzle attached to it. Lubricating grease is suitable for situations where the speed does not exceed 60 m/min and there is no requirement for cooling.

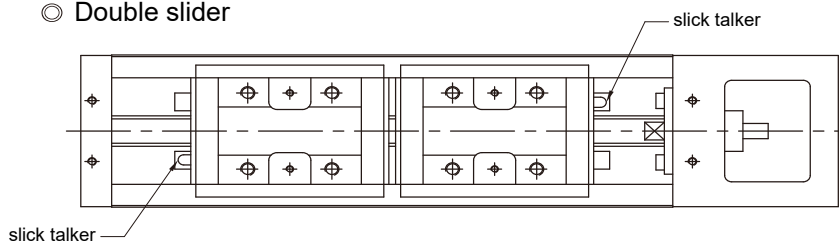
$$T = \frac{100 \times 1000}{V_e \times 60} \quad \begin{array}{l} T : \text{Oil Injection Frequency (hour)} \\ V_e : \text{Speed (m/min)} \end{array}$$

>>> Oil Nozzle Configuration Diagram

○ Single Slider

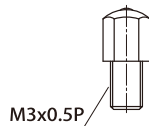


○ Double slider

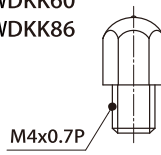


WDKK uses fuel injectors

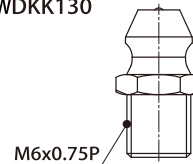
WDKK40



WDKK50
WDKK60
WDKK86



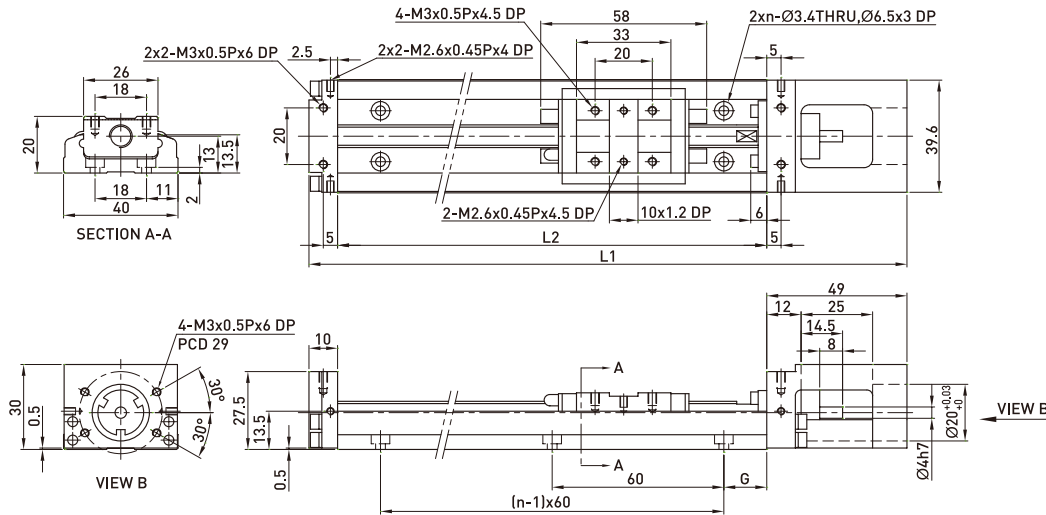
WDKK100
WDKK130



Without protective cover, product series WDKK40/WDKK50

WDKK40

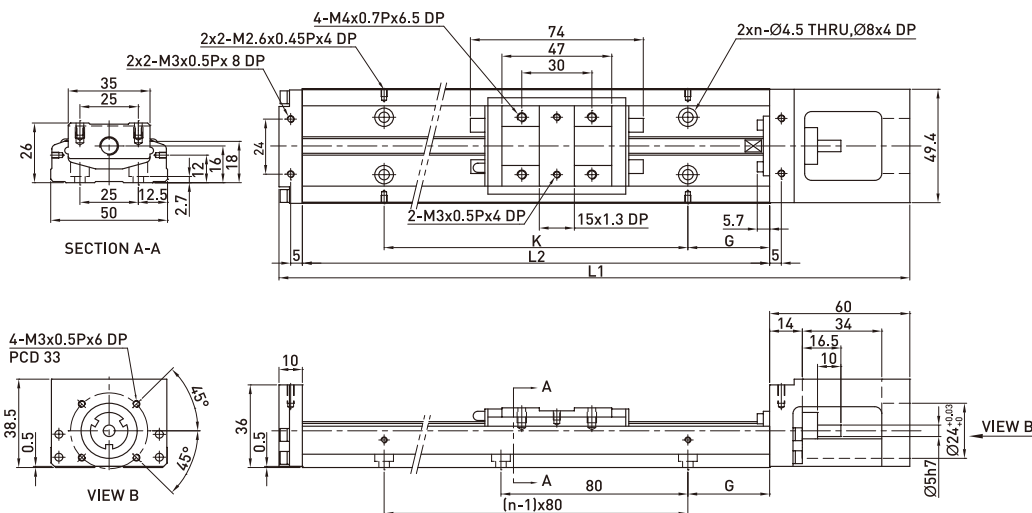
Unit: mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	n	Weight (kg)	
		A1Slide	A2Slide			A1Slide	A2Slide
100	159	36	-	20	2	0.48	-
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

WDKK50

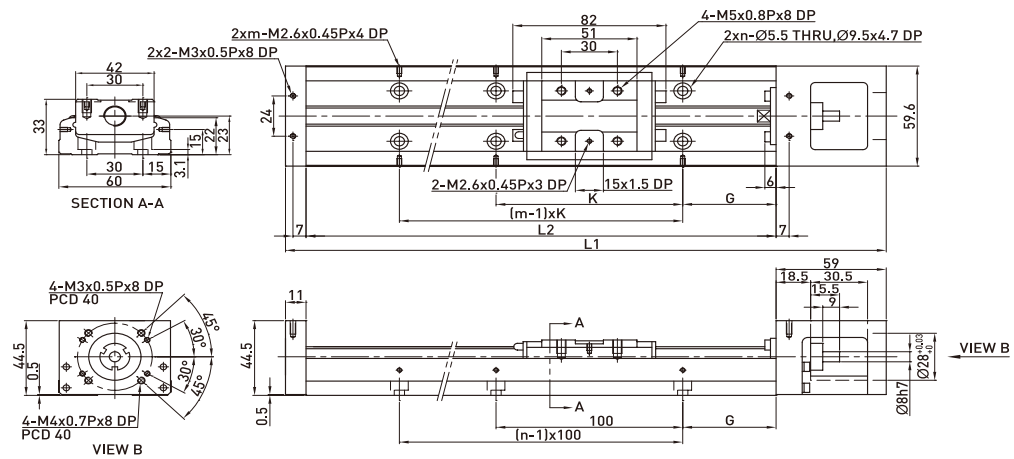
Unit: mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	K (mm)	n	Weight (kg)	
		A1Slide	A2Slide				A1Slide	A2Slide
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

WDKK60 Standard

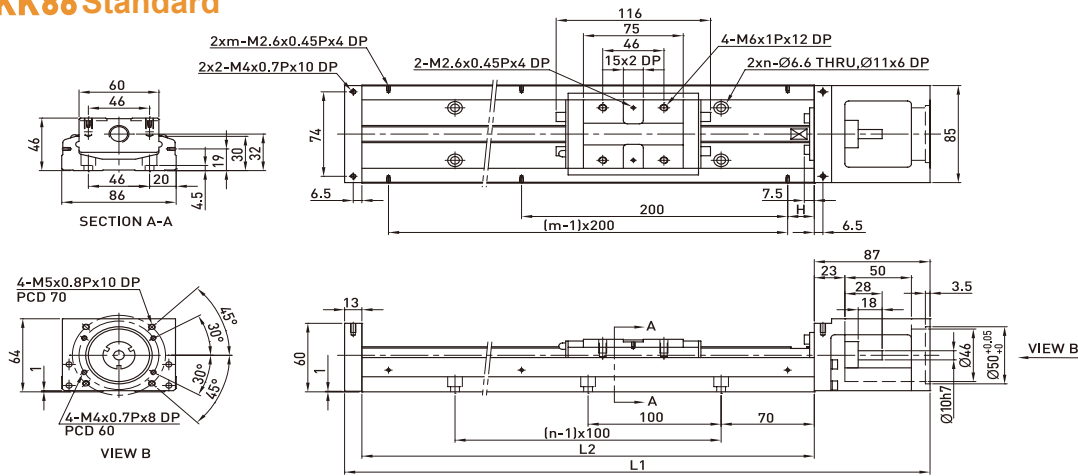
Unit : mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	K (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
150	220	60	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	100	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	100	5	5	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

WDKK86 Standard

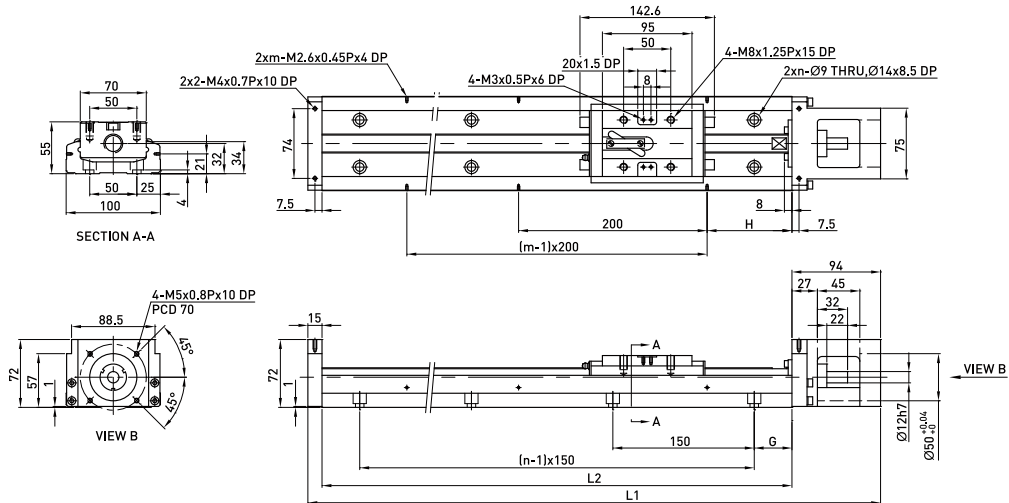
Unit : mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		H (mm)	n	m	Weight (kg)	
		A1 Slide	A2 Slide				A1 Slide	A2 Slide
340	440	216.5	108.5	70	3	2	5.7	6.5
440	540	316.5	208.5	20	4	3	6.9	7.7
540	640	416.5	308.5	70	5	3	8.0	8.8
640	740	516.5	408.5	20	6	4	9.2	10.0
740	840	616.5	508.5	70	7	4	10.4	11.2
840	940	716.5	608.5	20	8	5	11	11.8
940	1040	816.5	708.5	70	9	5	11.6	12.4

WDKK100

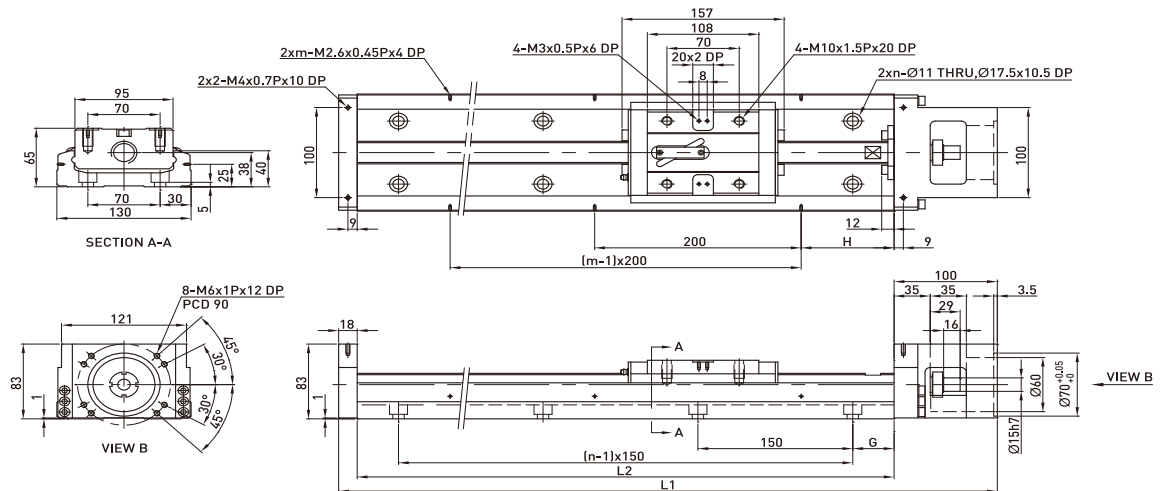
Unit : mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	H (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
980	1089	828	700	40	90	7	5	18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22.0
1180	1289	1028	900	65	90	8	6	22.0	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10	7	25.3	27.0

WDKK130

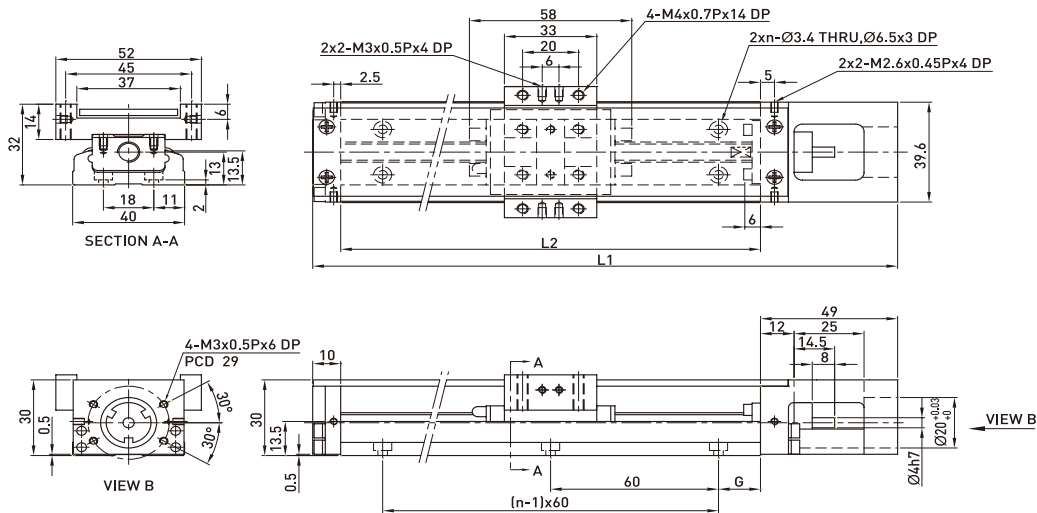
Unit : mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	H (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
980	1098	811	659	40	90	7	5	29.4	32.3
1180	1298	1011	859	65	90	8	6	34.3	37.2
1380	1498	1211	1059	90	90	9	7	39.2	42.1
1680	1798	1511	1359	90	40	11	9	46.5	49.4

Unit : mm

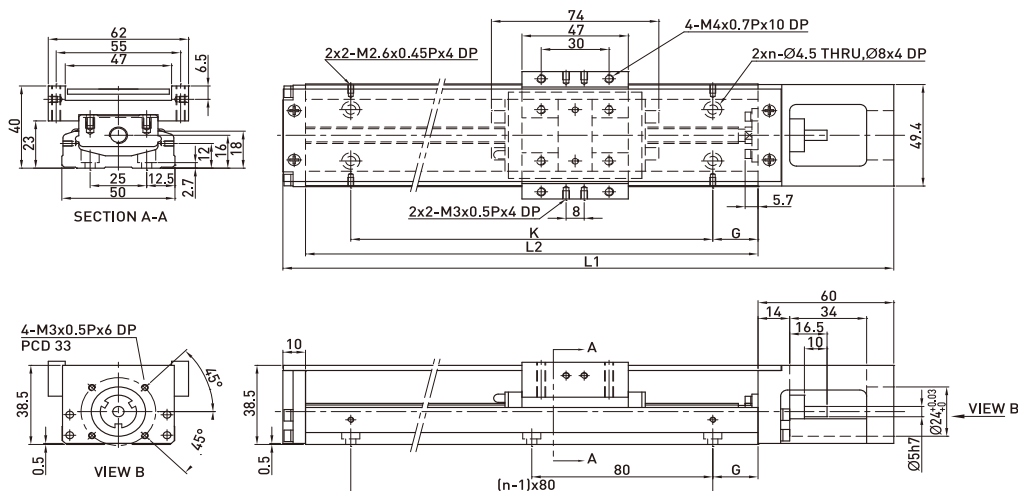
WDKK40



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	n	Weight (kg)	
		A1Slide	A2Slide			A1Slide	A2Slide
100	159	36	-	20	2	0.55	-
150	209	86	34	15	3	0.68	0.76
200	259	136	84	40	3	0.82	0.89

Unit : mm

WDKK50

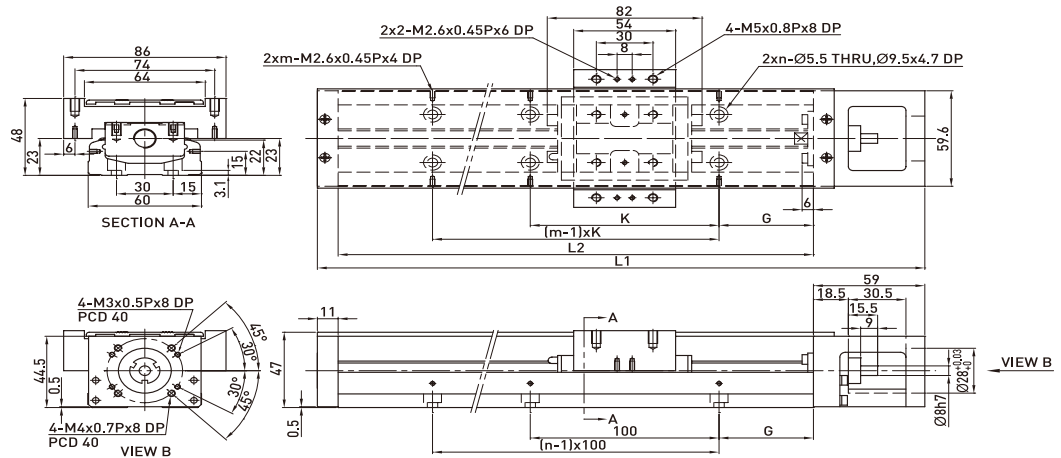


Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	K (mm)	n	Weight (kg)	
		A1Slide	A2Slide				A1Slide	A2Slide
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

WDKK60(Standard)

Unit : mm

WDKK60 Standard

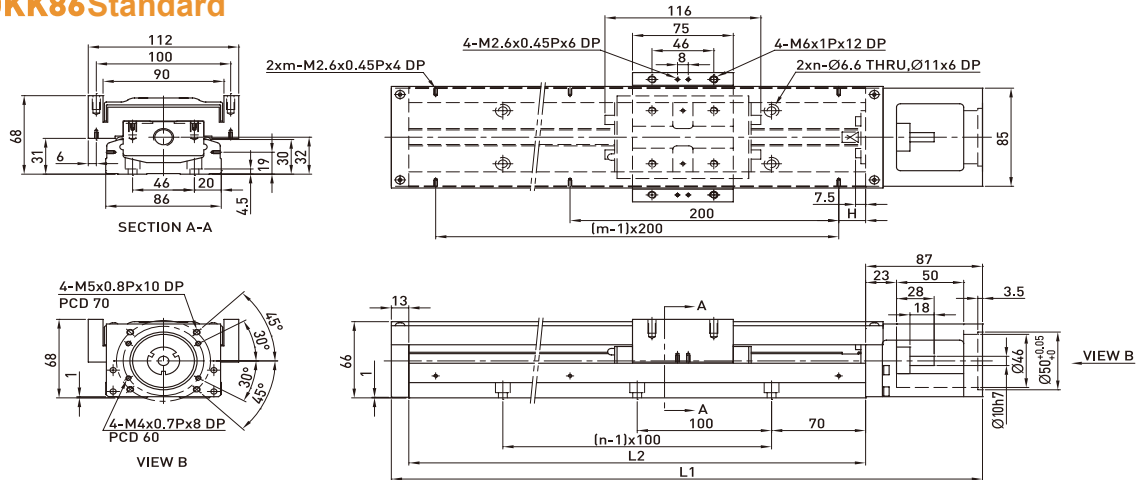


Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	K (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	100	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	100	5	5	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0

WDKK86(Standard)

WDKK86Standard

Unit : mm

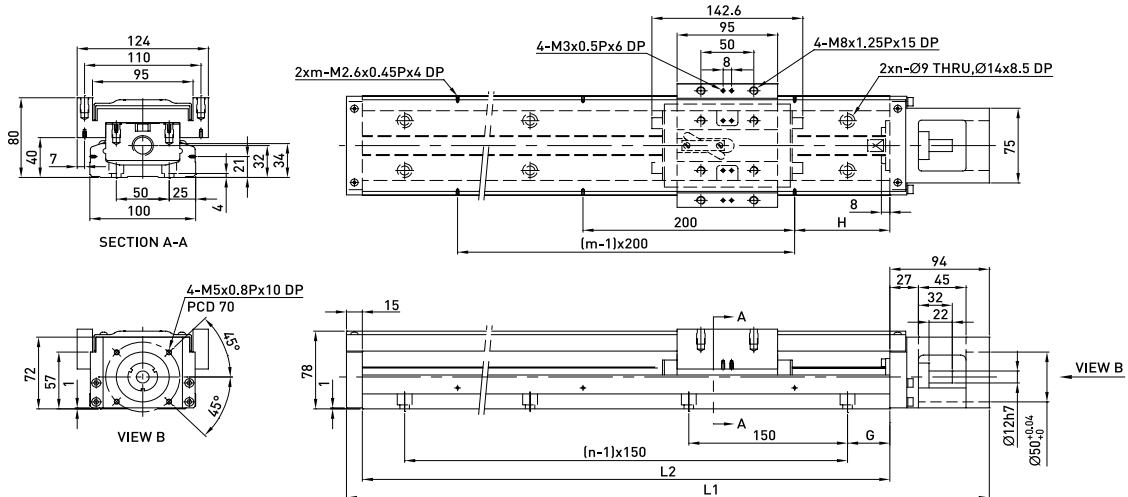


Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		H (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide				A1Slide	A2Slide
340	440	216.5	108.5	70	3	2	6.5	7.3
440	540	316.5	208.5	20	4	3	7.8	8.6
540	640	416.5	308.5	70	5	3	9.0	9.8
640	740	516.5	408.5	20	6	4	10.3	11.3
740	840	616.5	508.5	70	7	4	11.6	12.4
840	940	716.5	608.5	20	8	5	14.2	14.6
940	1040	816.5	708.5	70	9	5	13.0	13.8

WDKK100/WDKK130

WDKK100

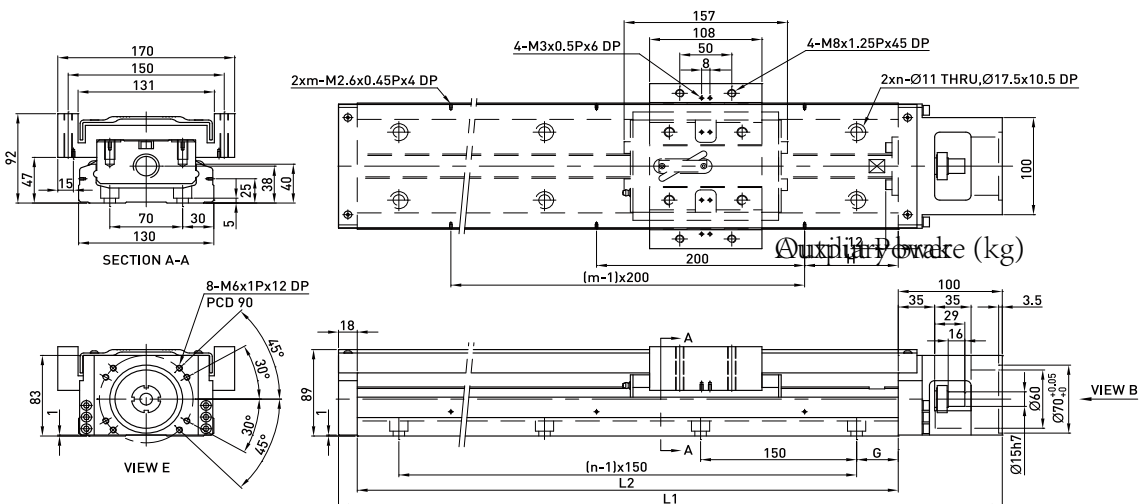
Unit: mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	H (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

WDKK130

Unit: mm



Rail Length L2 (mm)	Overall length L1 (mm)	Maximum travel (mm)		G (mm)	H (mm)	n	m	Weight (kg)	
		A1Slide	A2Slide					A1Slide	A2Slide
980	1098	811	659	40	90	7	5	31.9	35.9
1180	1298	1011	859	65	90	8	6	37.1	41.1
1380	1498	1211	1059	90	90	9	7	42.2	46.2
1680	1798	1511	1359	90	40	11	9	49.9	53.9

Motor Mount and Motor Connection Flange

>>> Applicable Mapong Reference Table

HIWIN Ball Screw

Output Power	Motor	Weight (kg)	Adapter Flange						Auxiliary brake (kg)	Driver	Weight (kg)	Note
			WDKK40	WDKK50	WDKK60	WDKK86	WDKK100	WDKK130				
50W	FRLS052□□A4□	0.45	F2	F2	F2	F3	-	-	0.58	D2	1.25	220V
100W	FRLS102□□A4□	0.6	F2	F2	F2	F3	-	-	0.76			220V
200W	FRLS202□□06□	1	-	-	-	F0	F0	F1	1.5			220V
400W	FRLS402□□06□	1.45	-	-	-	F0	F0	F1	1.86			220V
750W	FRMS752□□08□	2.66	-	-	-	-	F1	F2	3.32			220V

Mitsubishi Servo Motor

Output Power	Motor	Weight (kg)	Adapter Flange						Auxiliary brake (kg)	Driver	Weight (kg)	Note
			WDKK40	WDKK50	WDKK60	WDKK86	WDKK100	WDKK130				
50W	HF-KP053	0.35	F1	F1	F1	F2	-	-	0.75	MR-J3S-10A	0.8	220V
100W	HF-KP13	0.56	F1	F1	F1	F2	-	-	0.89	MR-J3S-10A	0.8	220V
200W	HF-KP23	0.94	-	-	-	F0	F0	F1	1.6	MR-J3S-20A	0.8	220V
400W	HF-KP43	1.5	-	-	-	F0	F0	F1	2.1	MR-J3S-40A	1	220V
750W	HF-KP73	2.9	-	-	-	-	F1	F2	4	MR-J3S-70A	1.4	220V

Panasonic Servo Motor

Output Power	Motor	Weight (kg)	Adapter Flange						Auxiliary brake (kg)	Driver	Weight (kg)	Note
			WDKK40	WDKK50	WDKK60	WDKK86	WDKK100	WDKK130				
50W	MSMD5AZP1	0.32	F2	F2	F2	F3	-	-	0.53	MADDT1105	0.8	110V
50W	MSMD5AZP1	0.32	F2	F2	F2	F3	-	-	0.53	MADDT1205	0.8	220V
100W	MSMD011P1	0.47	F2	F2	F2	F3	-	-	0.68	MADDT1107	0.8	110V
100W	MSMD012P1	0.47	F2	F2	F2	F3	-	-	0.68	MADDT1205	0.8	220V
200W	MSMD021P1	0.82	-	-	-	F1	-	-	1.3	MADDT2110	1.1	110V
200W	MSMD022P1	0.82	-	-	-	F1	-	-	1.3	MADDT1207	0.8	220V
400W	MSMD041P1	1.2	-	-	-	F1	-	-	1.7	MADDT3120	1.5	110V
400W	MSMD042P1	1.2	-	-	-	F1	-	-	1.7	MADDT2210	1.1	220V
750W	MSMD082S1	2.3	-	-	-	F4	F2	F4	3.1	MADDT3520	1.5	220V

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Output Power	Motor	Weight (kg)	Adapter Flange						Auxiliary brake (kg)	Driver	Weight (kg)	Note
			WDKK40	WDKK50	WDKK60	WDKK86	WDKK100	WDKK130				
50W	SGMAV-A5ADA61	0.3	F1	F1	F1	F2	-	-	-	SGDV-R70A01A	0.9	With key
50W	SGMAV-A5ADA2C	0.3	F1	F1	F1	F2	-	-	-	SGDV-R70A01A	0.9	Keyless
50W	SGMAV-A5ADA21	0.3	F1	F1	F1	F2	-	-	0.75	SGDV-R70A01A	0.9	Moment of inertia
100W	SGMAV-01ADA64	0.4	F1	F1	F1	F2	-	-	0.89	SGDV-R90A01A	0.9	
200W	SGMAV-02ADA65	0.9	-	-	-	F0	F0	F1	1.6	SGDV-1R6A01A	0.9	
400W	SGMAV-04ADA66	1.2	-	-	-	F0	F0	F1	2.1	SGDV-2R8A01A	1	
750W	SGMAV-08ADA67	2.6	-	-	-	-	F1	F2	4	SGDV-5R5A01A	1.5	

Motor Mount and Motor Connection Flange

Oriental stepping motor

series	Specifications	Applicable flange						Includes motor	Weight (kg)	With driver	Weight (kg)
		WDKK40	WDKK50	WDKK60	WDKK86	WDKK100	WDKK130				
CSK 2-phase combination	CSK243-AP	F3	F3	F5	-	-	-	PK243-01A	0.21	CSD2109-P	0.12
	CSK244-AP	F3	F3	F5	-	-	-	PK244-01A	0.27	CSD2112-P	0.12
	CSK245-AP	F3	F3	F5	-	-	-	PK245-01A	0.35	CSD2112-P	0.12
	CSK264-AP	-	-	F4	F6	-	-	PK264-02A	0.45	CSD2120-P	0.12
	CSK266-AP	-	-	F4	F6	-	-	PK266-02A	0.7	CSD2120-P	0.12
	CSK268-AP	-	-	F4	F6	-	-	PK268-02A	1	CSD2120-P	0.12
	CSK296-AP	-	-	-	-	F4	F3	PK296-03A	1.7	CSD2145P	0.2
	CSK299-AP	-	-	-	-	F4	F3	PK299-03A	2.8	CSD2145P	0.2
	CSK2913-AP	-	-	-	-	F4	F3	PK2913-02A	3.8	CSD2140P	0.2
CSK 2-phase combination	CSK523-AP	-	-	-	-	-	-	PK523A	0.1	SD5103P3	0.04
CFKII 5-Phase Micro Step Combination	CFK543AP2	F3	F3	F5	-	-	-	PK543NAW	0.21	DFC5107P	0.2
	CFK544AP2	F3	F3	F5	-	-	-	PK544NAW	0.27	DFC5107P	0.2
	CFK545AP2	F3	F3	F5	-	-	-	PK545NAW	0.35	DFC5107P	0.2
	CFK564AP2	-	-	-	F5	-	-	PK564NAW	0.6	DFC5114P	0.2
	CFK566AP2	-	-	-	F5	-	-	PK566NAW	0.8	DFC5114P	0.2
	CFK569AP2	-	-	-	F5	-	-	PK569NAW	1.3	DFC5114P	0.2
	CFK566HAP2	-	-	-	F5	-	-	PK566HNAW	0.8	DFC5128P	0.22
	CFK569HAP2	-	-	-	F5	-	-	PK569HNAW	1.3	DFC5128P	0.22
	CFK596HAP2	-	-	-	-	F3	-	PK596HNAW	1.7	DFC5128P	0.22
	CFK599HAP2	-	-	-	-	F3	-	PK599HNAW	2.8	DFC5128P	0.22
	CFK5913HAP2	-	-	-	-	F3	-	PK5913HNAW	3.8	DFC5128P	0.22
UM K 2-phase combination	UMK243A	F3	F3	F5	-	-	-	PK243-01	0.21	UDK2109	0.47
	UMK244A	F3	F3	F5	-	-	-	PK244-01	0.27	UDK2112	0.47
	UMK245A	F3	F3	F5	-	-	-	PK245-01	0.35	UDK2112	0.47
	UMK264A	-	-	F4	F6	-	-	PK264-02	0.45	UDK2120	0.47
	UMK266A	-	-	F4	F6	-	-	PK266-02	0.7	UDK2120	0.47
	UMK268A	-	-	F4	F6	-	-	PK268-02	1	UDK2120	0.47
RK 5-phase combination	RK543AA	F3	F3	F5	-	-	-	PK543W	0.25	RKD507-A	0.4
	RK544AA	F3	F3	F5	-	-	-	PK544W	0.3	RKD507-A	0.4
	RK545AA	F3	F3	F5	-	-	-	PK545W	0.4	RKD507-A	0.4
	RK566AA	-	-	-	F5	-	-	PK566W	0.8	RKD514L-A	0.85
	RK569AA	-	-	-	F5	-	-	PK569W	1.3	RKD514L-A	0.85
	RK596AA	-	-	-	-	F3	-	PK596W	1.7	RKD514H-A	0.85
	RK599AA	-	-	-	-	F3	-	PK599W	2.8	RKD514H-A	0.85
	RK5913AA	-	-	-	-	F3	-	PK5913W	3.8	RKD514H-A	0.85
ASC α-step	ASC34AK	-	-	-	-	-	-	ASM34AK	0.15	ASD10A-K	0.25

>>> Motor Specification Sheet

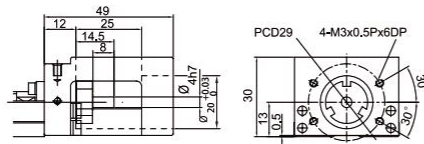
Motor Specifications	Motor Model	Encoder Type	Output Power (W)	Brake	Servo actuator model	Motor power cable model	Encoder Cable Model	USB Adapter Model
M050	FRLS05205A4A	13 bit Wiring-saving incremental type	50	Does not include brakes	D2-0123-S-A0	HVPS04AA03MB	HVE13IAB03MB	051700800366
M100	FRLS10205A4A		100		D2-0423-S-B0			
M200	FRLS2020506A		200					
M400	FRLS4020506A		400					
M750	FRMS7520508A		750					
K050	FRLS052B5A4A		50	With brakes		D2-0123-S-A0		
K100	FRLS102B5A4A		100		D2-0423-S-B0			
K200	FRLS202B506A		200					
K400	FRLS402B506A		400					
K750	FRMS752B508A		750			D2-1023-S-C0		
M051	FRLS05206A4A	17 bit Serial Incremental	50	Does not include brakes		D2T-0123-S-A4	HVPS04AA03MB	
M101	FRLS10206A4A		100		D2T-0423-S-B4			
M201	FRLS2020606A		200					
M401	FRLS4020606A		400					
M751	FRMS7520608A		750			D2T-1023-S-C4		
K051	FRLS052B6A4A		50	With brakes		D2T-0123-S-A4	HVPS06AA03MB	
K101	FRLS102B6A4A		100		D2T-0423-S-B4			
K201	FRLS202B606A		200					
K401	FRLS402B606A		400					
K751	FRMS752B608A		750			D2T-1023-S-C4		
M052	FRLS05204A4A	17 bit Linked List Absolute Style	50	Does not include brakes		D2T-0123-S-A5	HVPS04AA03MB	HVE17AAB03MB
M102	FRLS10204A4A		100		D2T-0423-S-B5			
M202	FRLS2020406A		200					
M402	FRLS4020406A		400					
M752	FRMS7520408A		750			D2T-1023-S-C5		
K052	FRLS052B4A4A		50	With brakes		D2T-0123-S-A5	HVPS06AA03MB	
K102	FRLS102B4A4A		100		D2T-0423-S-B5			
K202	FRLS202B406A		200					
K402	FRLS402B406A		400					
K752	FRMS752B408A		750			D2T-1023-S-C5		

Motor and Flange Connection Model Reference Table

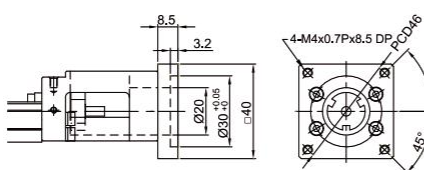
Unit : mm

WDKK40

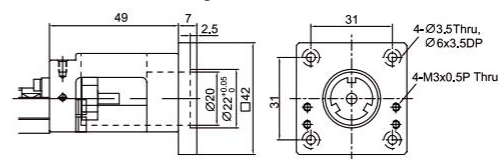
Motor Mount F0



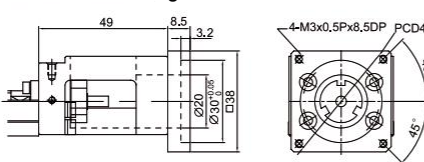
Motor Connection Flange F1



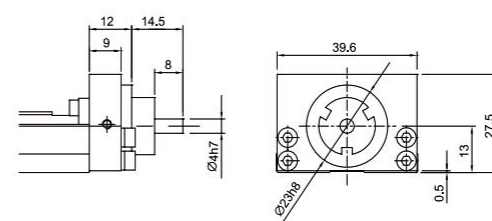
Motor Connection Flange F3



Motor Connection Flange F2



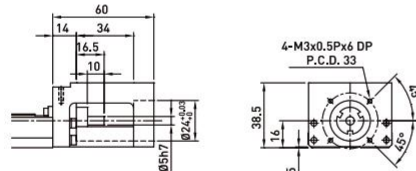
Adapter Base H0



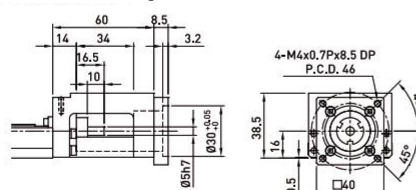
WDKK50

Unit : mm

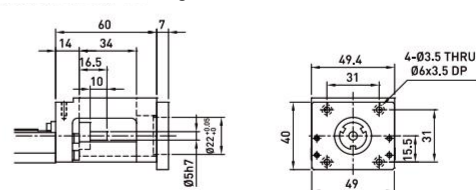
Motor Mount F0



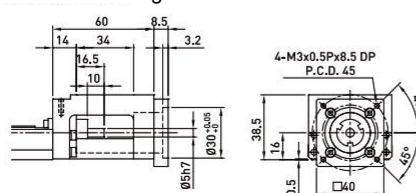
Motor Connection Flange F1



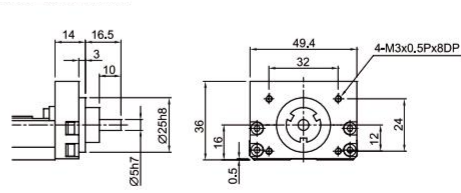
Motor Connection Flange F3



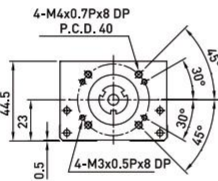
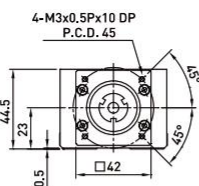
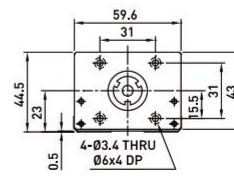
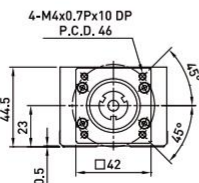
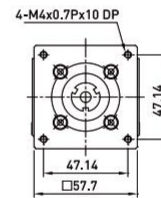
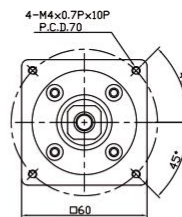
Motor Connection Flange F2



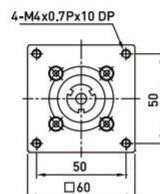
Adapter Base H0



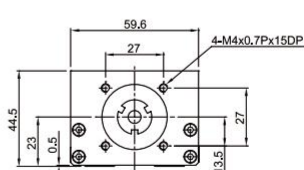
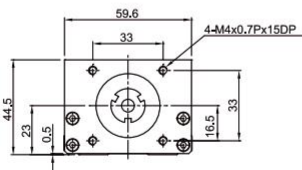
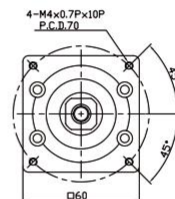
單位 Unit : mm

[illegible][illegible]

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of $\varnothing 26.5$ and a tolerance of $+0.05$ mm, and a hub with a bore diameter of $\varnothing 26.5$ and a tolerance of -0.03 mm. The shaft has a length of 10 mm and a diameter of 10 mm. The hub has a bore diameter of 26.5 mm and a length of 18.5 mm. The total length of the assembly is 59 mm. The drawing also shows a cross-section of the shaft with a diameter of 26.5 mm and a tolerance of $+0.05$ mm, and a hub with a bore diameter of 26.5 mm and a tolerance of -0.03 mm. The shaft has a length of 10 mm and a diameter of 10 mm. The hub has a bore diameter of 26.5 mm and a length of 18.5 mm. The total length of the assembly is 59 mm.



Technical drawing of a mechanical part with dimensions. The drawing shows a cross-section of a component with various features and dimensions. Key dimensions include: 18.5, 30.5, 15, 3.5, 15.5, 9, 159, 104, 50, 67, and 5. The drawing is labeled 'Fig. 1' and 'Fig. 2'.

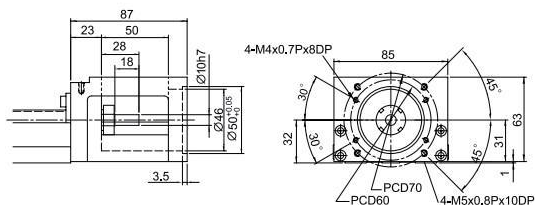


Motor and Flange Connection Model Reference Table

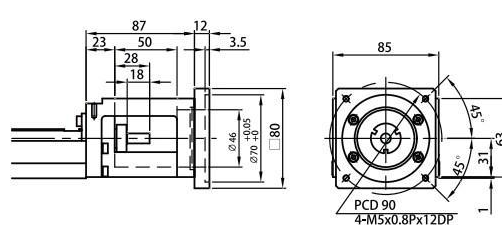
Unit : mm

WDKK86

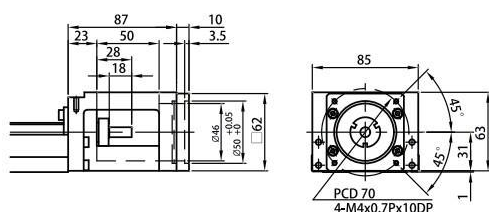
Motor Mount F0



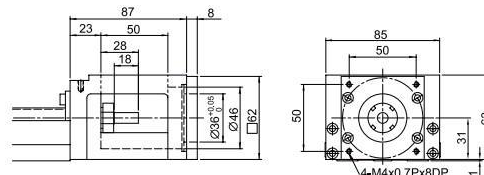
Motor Connection Flange F4



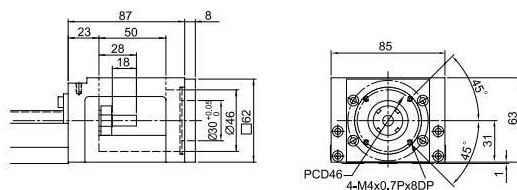
Motor Connection Flange F1



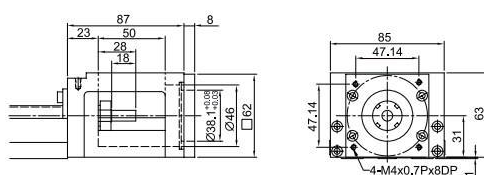
Motor Connection Flange F5



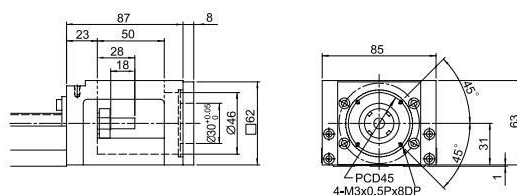
Motor Connection Flange F2



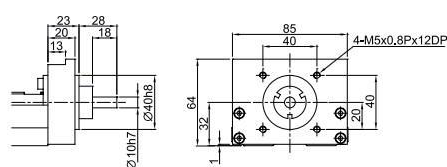
Motor Connection Flange F6



Motor Connection Flange F3



Adapter Base H0

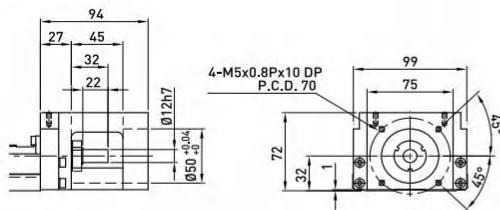


Servo Motor Model Selection Reference Table

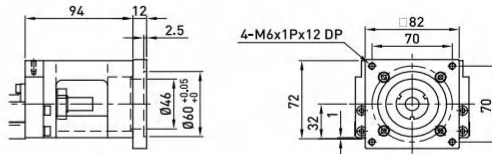
WDDK100

Unit : mm

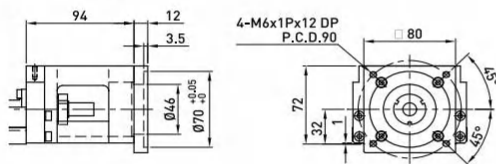
Motor Mount F0



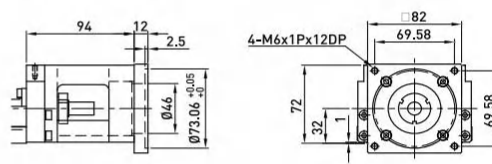
Motor Connection Flange F3



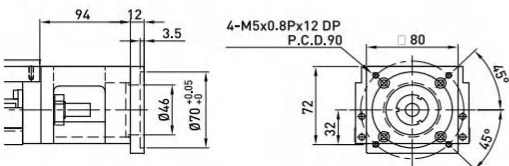
Motor Connection Flange F1



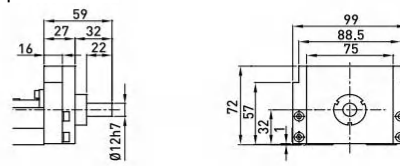
Motor Connection Flange F4



Motor Connection Flange F2



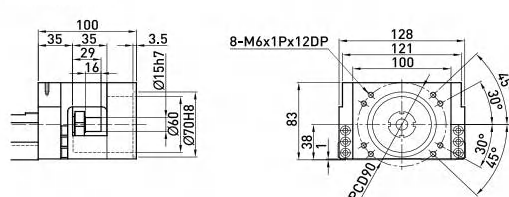
Adapter Base H0



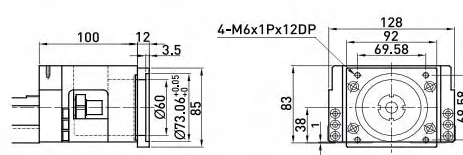
WDDK130

Unit : mm

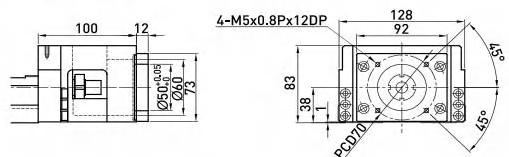
Motor Mount F0



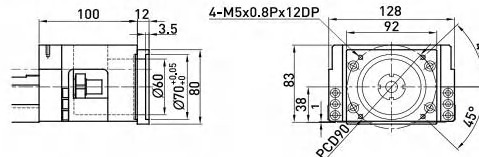
Motor Connection Flange F3



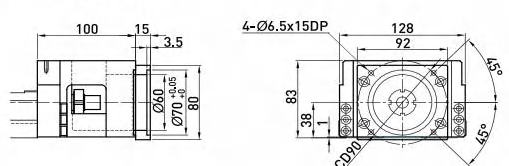
Motor Connection Flange F1



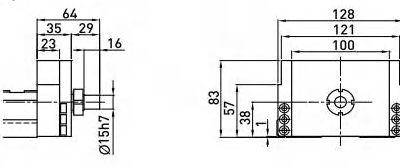
Motor Connection Flange F4



Motor Connection Flange F2

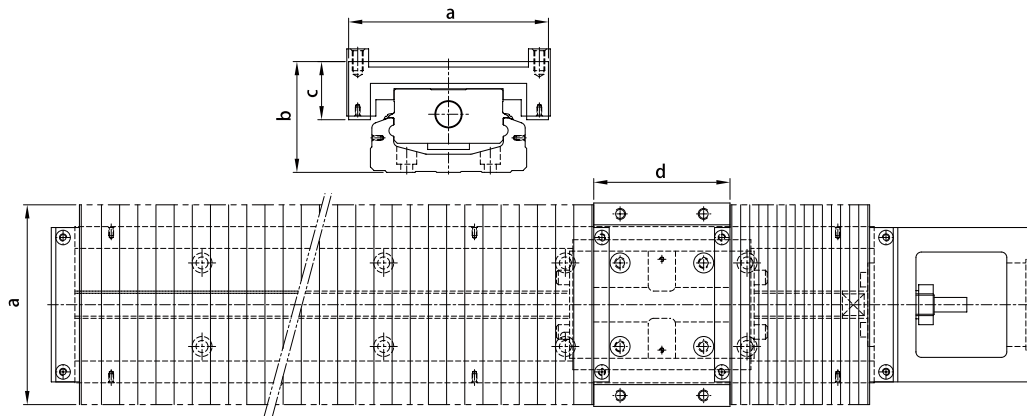


Adapter Base H0



Telescopic sleeve

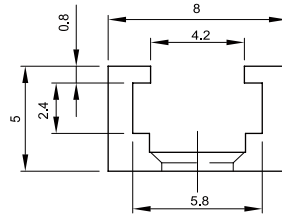
Unit: mm



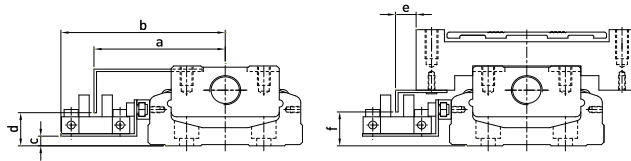
Size	Guide rail length	Maximum travel	Minimum compression	Maximum elongation	a	b	c	d
WDKK40	100	35	16	51	60	29.5	19	33
	150	63	27	90				
	200	93	37	130				
WDKK50	150	60	21.5	81.5	62	37	19	47
	200	95	29	124				
	250	130	36.5	166.5				
WDKK60	300	160	46.5	206.5	84	45.5	24	54
	150	56	16	80				
	200	106	20	126				
	300	166	40	206				
	400	234	56	290				
WDKK86	500	306	70	376	110	61	32	75
	600	366	90	456				
	340	188	36	224				
	440	260	50	310				
	540	336	62	398				
WDKK100	640	408	76	484	150	73	41	95
	740	480	90	570				
	940	640	110	750				
	980	769	58	827				
WDKK130	1080	855	65	920	180	89	53	108
	1180	945	70	1015				
	1280	1029	78	1107				
	1380	1115	85	1200				
	980	748	62	810	180	89	53	108
	1180	916	78	994				
	1380	1084	94	1178				
	1680	1346	113	1459				

Telescopic sleeve

Extreme Orbit

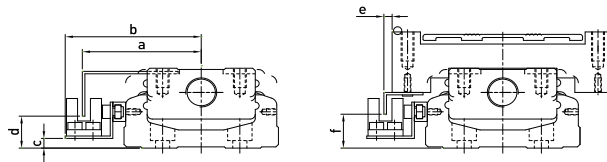


Sensor



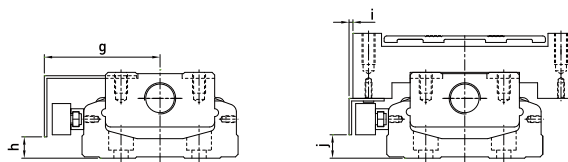
Size	a	b	c	d	e	f
WDKK40	41.5	54.1	0.5	10.8	15.3	12
WDKK50	45.5	59	1	10	15	11
WDKK60	51	63.8	4	14.5	8	13
WDKK86	63.5	76.7	8	18	8	18
WDKK100	71	84	10	20	9	20
WDKK130	85.5	98.5	14	24	0.5	23

Limit switch S1 : Omron EE-SX671



Size	a	b	c	d	e	f
WDKK40	36.5	44.3	1	9.8	10.5	12
WDKK50	41.3	48	1	10.5	10.2	11
WDKK60	46.2	52.8	4	14	3.2	13
WDKK86	59	65.7	8	18	3	18
WDKK100	66	73	10	20	4.2	20
WDKK130	80.8	87.5	14	23.5	-4.1	23.5

Limit switch S2 : Omron EE-SX674

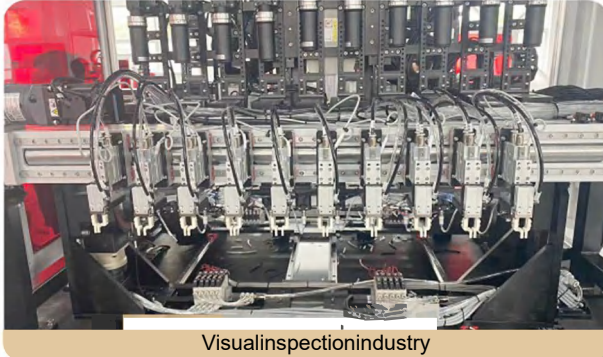


Size	g	h	i	j
WDKK40	40	5.5	13.5	5.5
WDKK50	39.5	5.7	7	5.7
WDKK60	44.5	9	2	9
WDKK86	57	13	1	13
WDKK100	64.5	15	2.5	15
WDKK130	79	19	-6	19

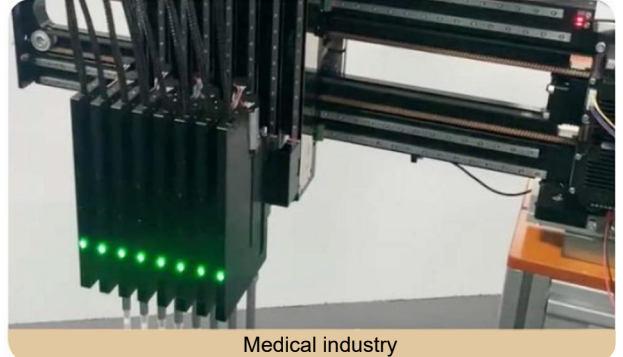
Limit switch S3: PANASONIC GX-F12A

Limit switch S4 : PANASONIC GX-F12A-P

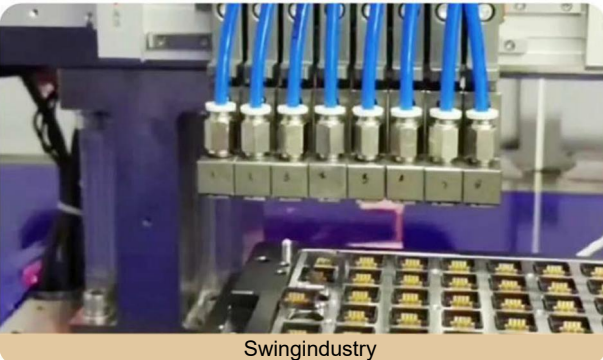
APPLICATI



Visual inspection industry



Medical industry



Swing industry



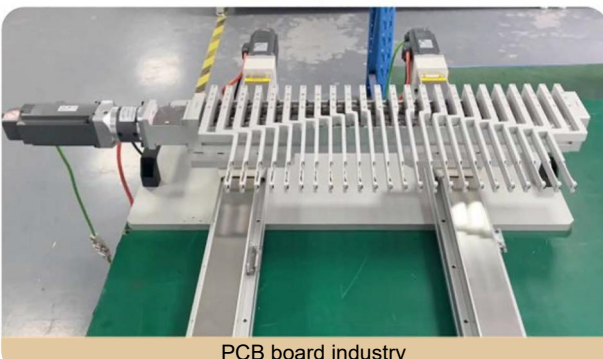
Cosmetics industry



Robot industry



Blister packaging machine industry



PCB board industry



Glass cutting industry

MEMO



PRODUCT DISPLAY



Variable focal length module / CLD



Non-Uniform Variable Distance
Module / CLB



Free Zoom Module / CLZ



Pneumatic Variable
Pitch Module/CLQ



Scissor-type Focus Module/CLJ



3D Zoom Module / CLX



Other multifunctional
zoom modules



Other pneumatic
grippers



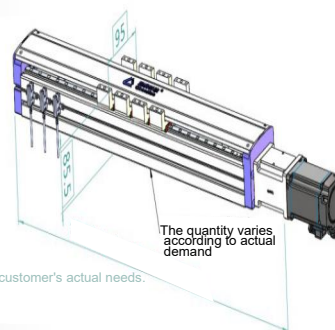
Other cam flip stage

Support for customization. 3D models are available within 3 days.

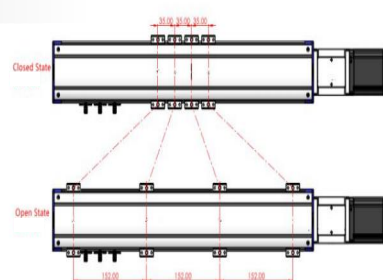
CLD80F Model



Detailed image



Spacing Diagram



Technical Specifications

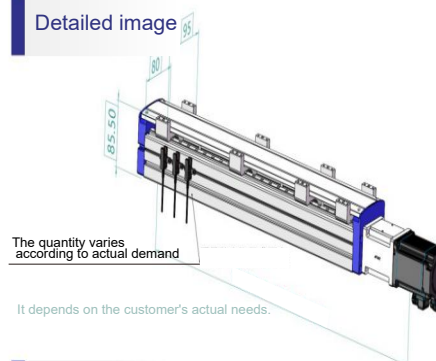
Type Item	40	40C	60	60C	60F	60F/C	80	80C	80F	80F/C	80S	80S/C	100	100C	120F	120F/C	130F	130F/C	175F	175F/C	130F	230F/C
width	98	42	120	60	113	72	150	80	158	95	150	80	200	100	223	130	240	140	288	200	342	230
Servo motor	100W						400W						750W						750W--1500W			
Height	48.0		55.5		66.5		70.5		83.5		76.5		90		95.0		93.5		124.5		138.0	
Length	≤350		≤500				≤1500						≤2000		≤2200		≤2500		≤4000		≤5000	
Pitch	8.5		8.5		17.0		13.5		23.0		48.0		25.0		23.0		36.0		36.0		36.0	
Unit workstation load (kg)	2.5		10.0		6.0		25.0		15.0		40.0		60.0		15.0		25.0		25.0		25.0	

Supports customization. 3D models are available.

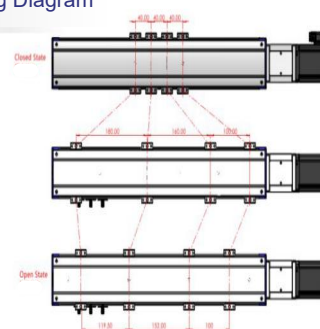
CLB 80F Model



Detailed image



Spacing Diagram

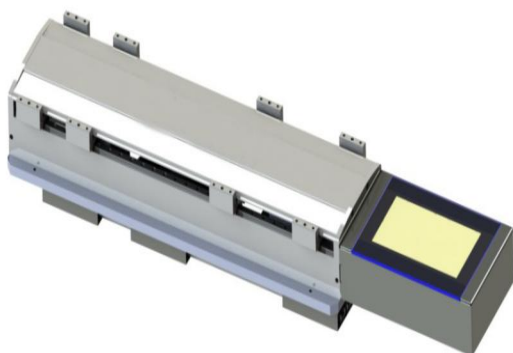


Technical Specifications

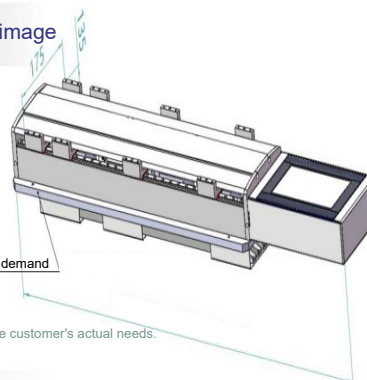
Type Item	40	40C	60	60C	60F	60F/C	80	80C	80F	80F/C	80S	80S/C	100	100C	120F	120F/C	130F	130F/C	175F	175F/C	130F	230F/C
width	98	42	120	60	113	72	150	80	158	95	150	80	200	100	223	130	240	140	288	200	342	230
Servo motor	100W						400W						750W						750W--1500W			
Height	48.0		55.5		66.5		70.5		83.5		76.5		90		95.0		93.5		124.5		138.0	
Length	≤350		≤500				≤1500						≤2000		≤2200		≤2500		≤4000		≤5000	
Pitch	8.5		8.5		17.0		13.5		23.0		48.0		25.0		23.0		36.0		36.0		36.0	
Unit workstation load (kg)	2.5		10.0		6.0		25.0		15.0		40.0		60.0		15.0		25.0		25.0		25.0	

Support for customization, 3D models are available

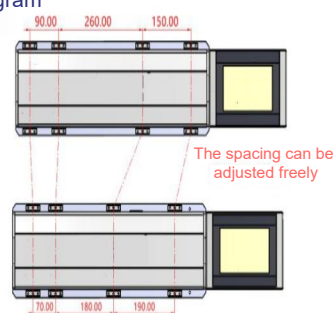
CLZ 42-ST Model



Detailed image



Spacing Diagram

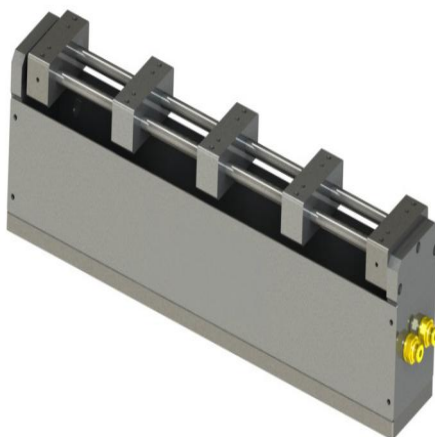


Technical Specifications

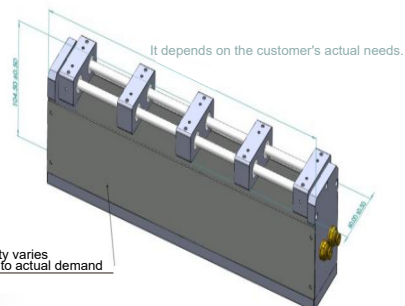
Product Style	Body width	Height	Single-station load	Minimum spacing	Speed	Maximum length
42-st	≥ 140	185	20	45	-	≤ 5000
57-st	≥ 148	200	10	50	-	≤ 5000
SM	≥ 136	185	20	45	-	≤ 5000

Support for customization, 3D models are available

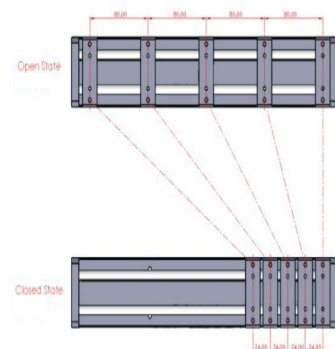
CLQ60T Model



Detailed image



Spacing Diagram

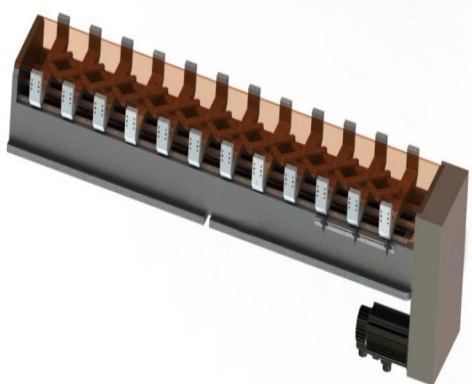


Technical Specifications

Product Style	Body width	Minimum spacing	Single-station load	Height	Cylinder Bore	Maximum length
60	60	8	≤ 2	80	16	≤ 400
80	80	8	≤ 3	85	20	≤ 500
120	120	23	≤ 10	120	32	≤ 1000
200	200	40	≤ 15	150	50	≤ 1500

Support for customization, 3D models are available

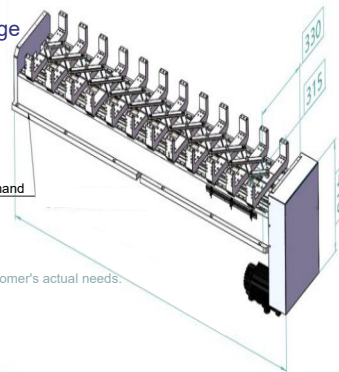
CLJ 290 Model



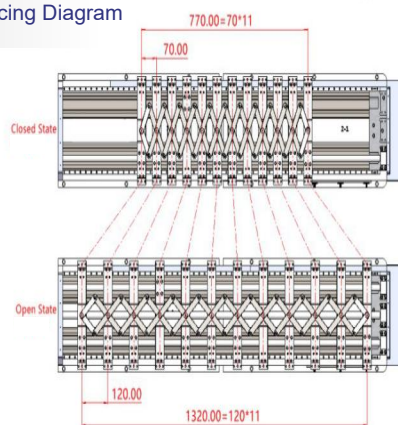
Detailed image

The quantity varies according to actual demand

It depends on the customer's actual needs.



Spacing Diagram



Technical Specifications

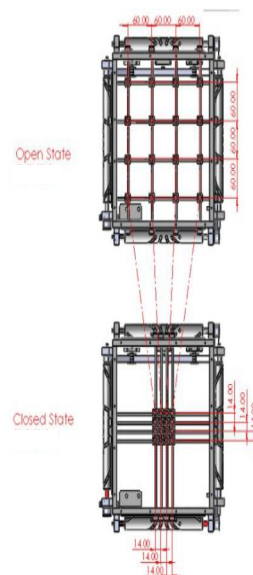
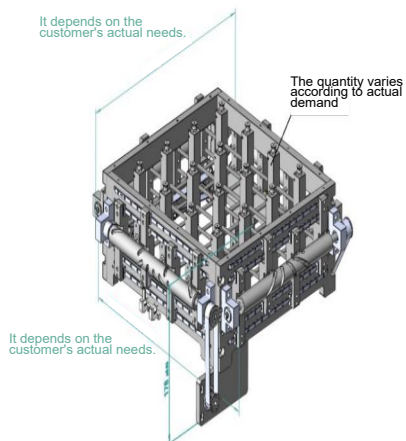
Product Style	Body width	single digit	Minimum spacing	Single-station load	Choose electromechanical	Height	length
80	80	≤3	8	15	400W	75	≤2000
170	200	≤5	40	25	750W	145	≤3000
290	330	/	40	35	750W	215	≤5000
350	390	/	40	35	1000W	215	≤10000

Support for customization, 3D models are available

CLX M model

Detailed image

Spacing Diagram



Technical Specifications

Product Style	Minimum spacing	Single-station load	Length in the X direction	Length in Y direction	Overall height
T (cross-shaped)	≥ 14	≤ 5	≤ 3000	≤ 3000	-
M (mouth-shaped)	≥ 14	≤ 20	≤ 3000	≤ 5000	-
W (I-beam)					

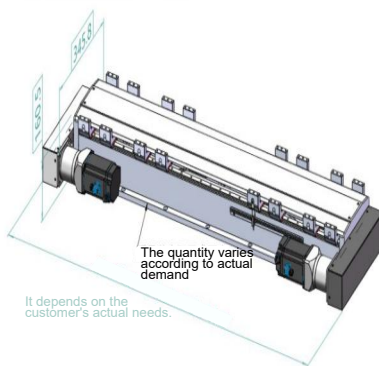
Support for customization, 3D models are available

Other

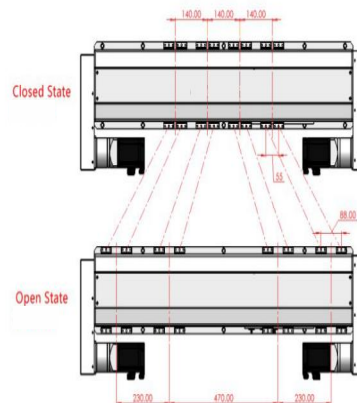
Multi-Functional
Variable-Pitch Module



Detailed image



Spacing Diagram



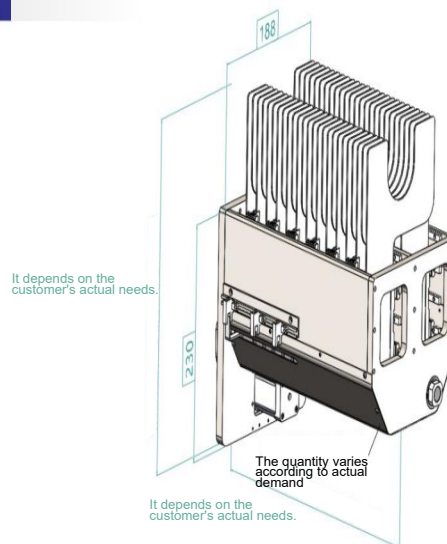
Support for customization, 3D models are available

Other

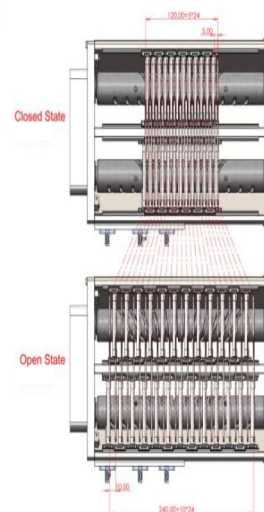
Wafer-specific module



Detailed image



Spacing Diagram

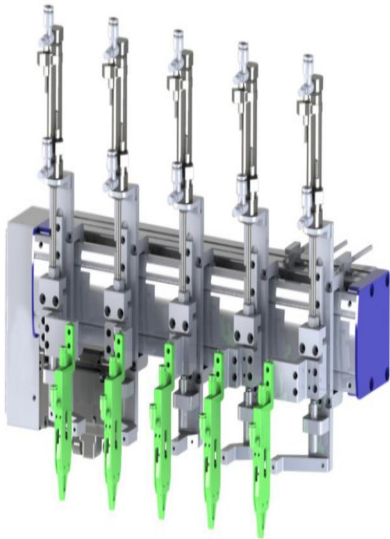
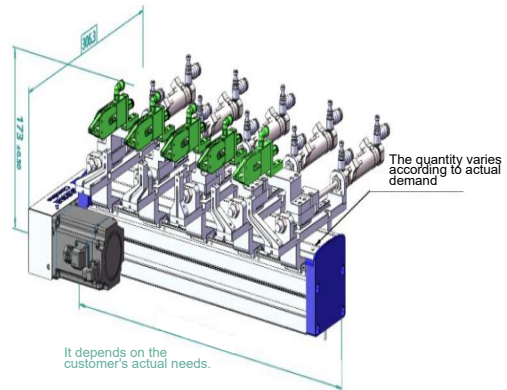


Support for customization, 3D models are available

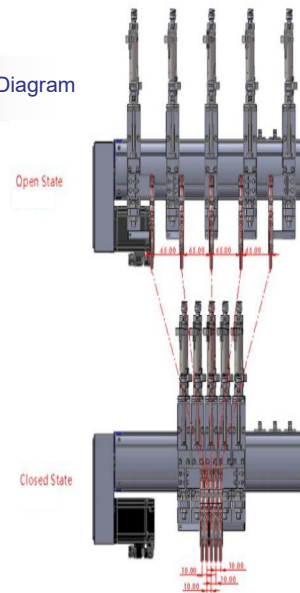
Case

ATC Tool Pitch ChangeModule

Detailed image



Spacing Diagram

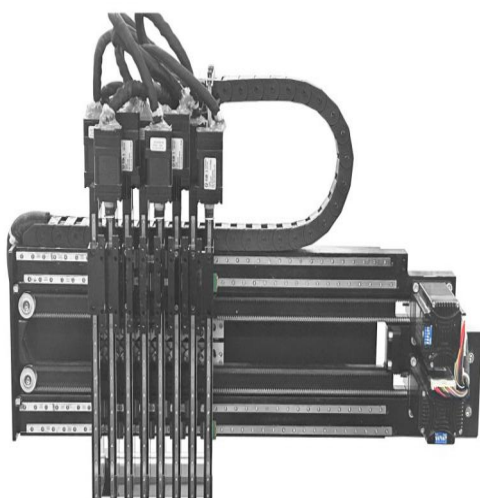
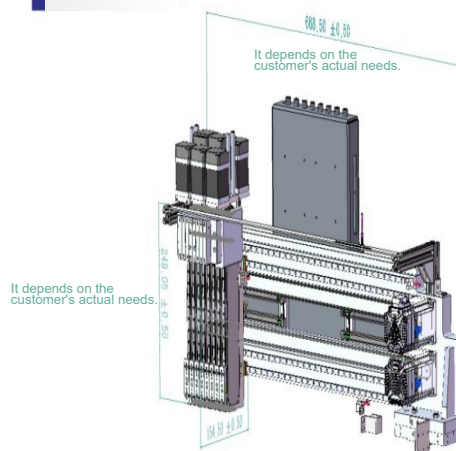


Support for customization, 3D models are available

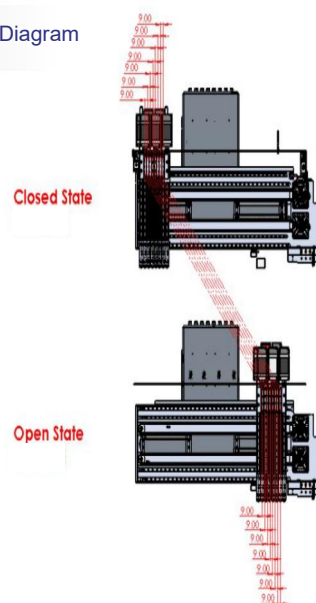
Case

Scissor-Lif Variable-
Pitch Module

Detailed image



Spacing Diagram



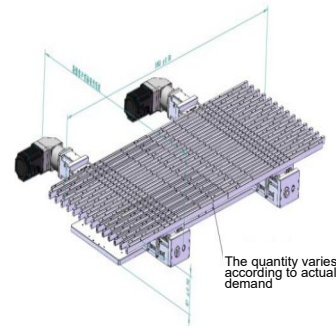
Support for customization, 3D models are available

Case

Dua-axis
synchronous pitch
adjustment module

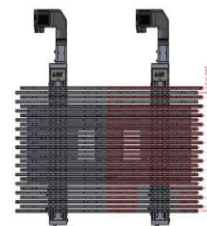


Detailed image

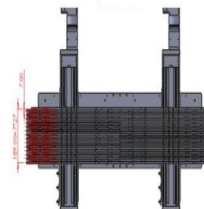


Spacing Diagram

Open State



Closed State



Case

Blow molder pitch
change module



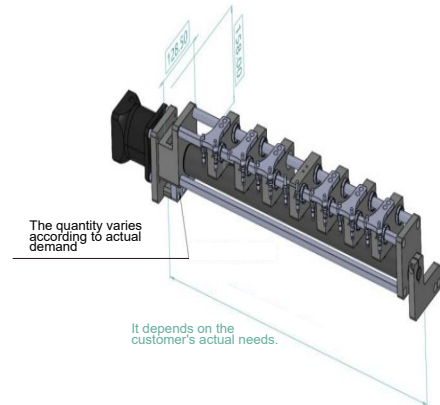
Support for customization, 3D models are available

Case

Rotary and Variable
Pitch Module



Detailed image

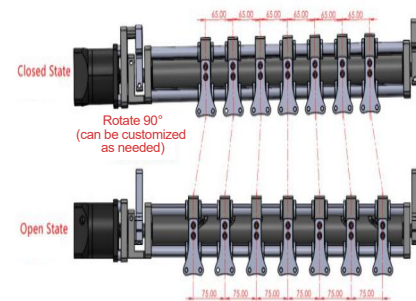


Case

Combined pitch
variation module



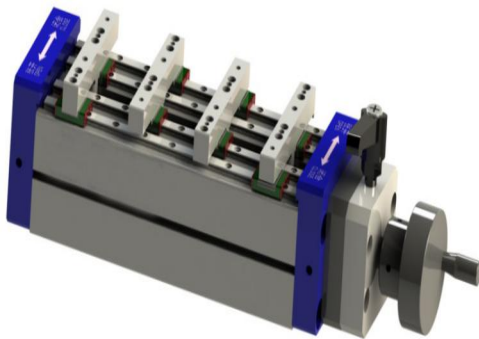
Spacing Diagram



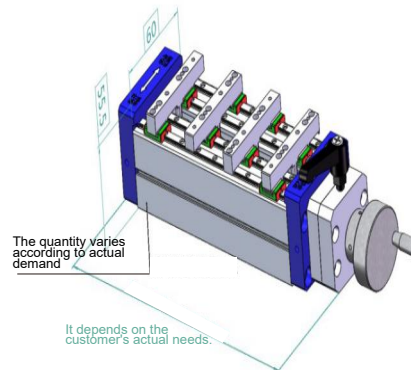
Support for customization, 3D models are available

Case

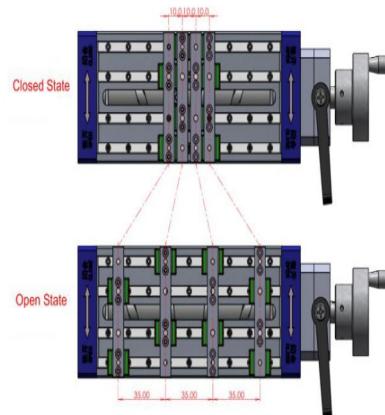
Manual hand
crankpitch
adjustment
module



Detailed image



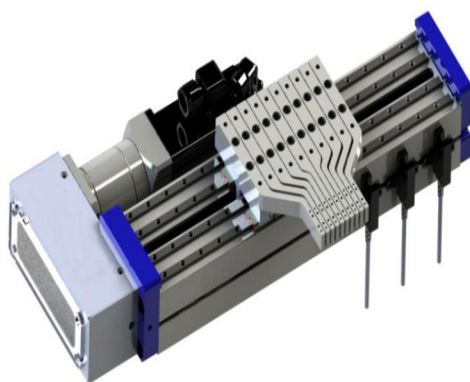
Spacing Diagram



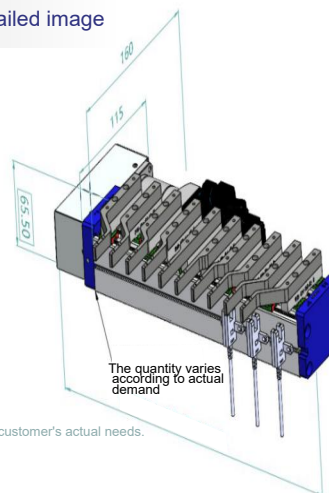
Support for customization, 3D models are available

Case

Scissor-Lif Variable-
Pitch Module

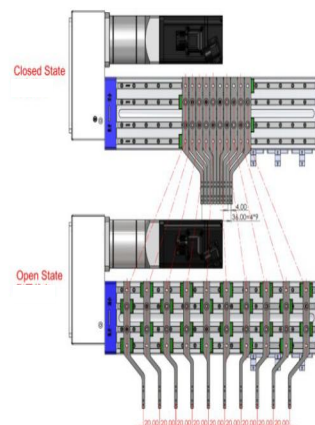


Detailed image



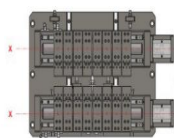
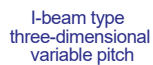
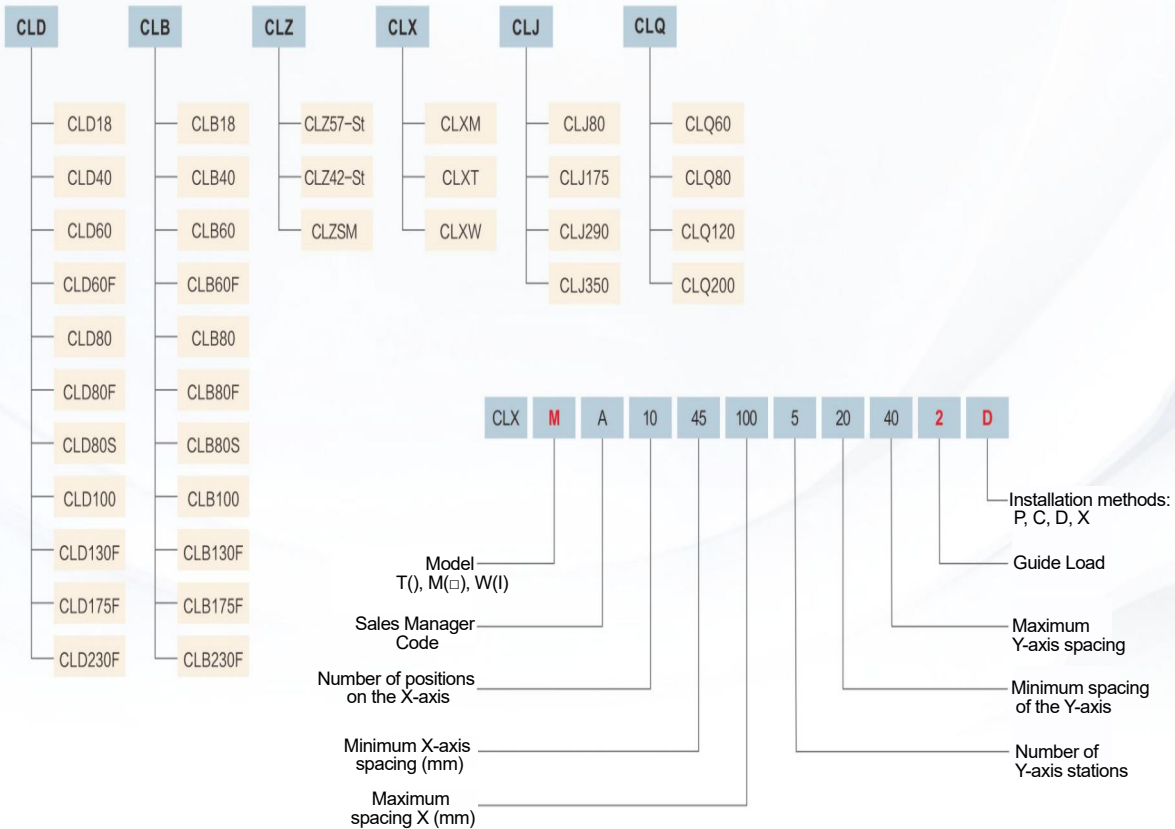
It depends on the customer's actual needs.

Spacing Diagram

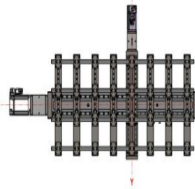


Support for customization, 3D models are available

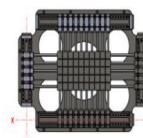
Complete Product Series List



Cross-shaped
Three-dimensional
variable distance

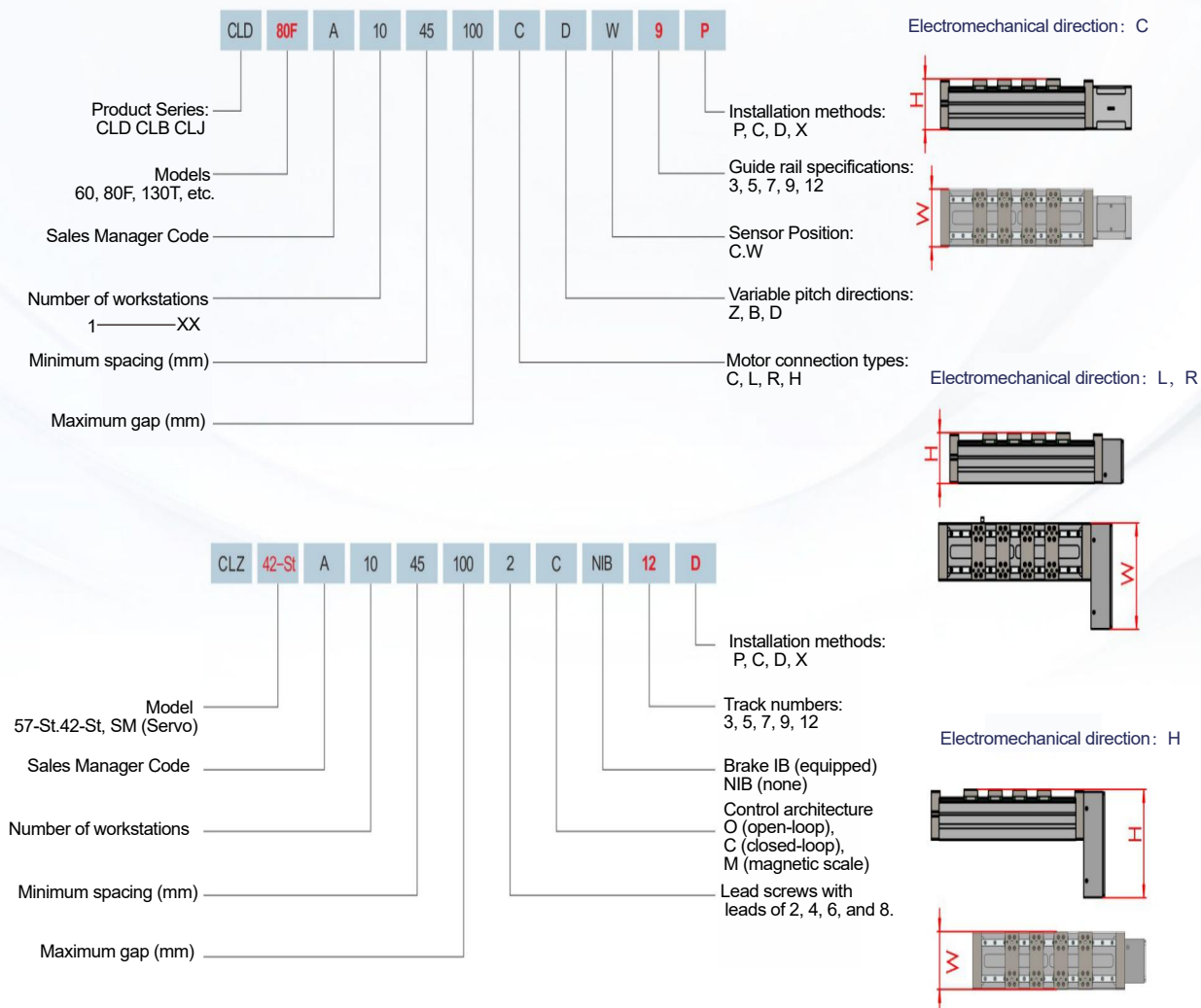


Mouth-shaped
3D variable focal
length



Support for customization, 3D models are available

Complete Product Series List

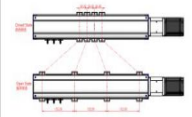


Support for customization, 3D models are available

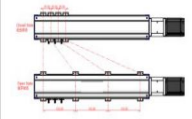
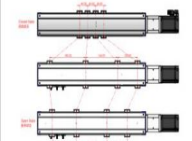
Buying Guide

Full legal name of the company	
Contact Name	
Contact Number	
Number of workstations	Note: The number of workstations refers to the number of sliders (moving parts) (abbreviated as slider units).
Minimum center distance	Example: The minimum center distance refers to the center distance between two adjacent sliders after the die set is combined.
Maximum center distance	Note: The maximum center distance refers to the distance between the centers of two adjacent sliders when the module is fully extended.
Spacing Allowance	Tip: When the customer provides the spacing, it is not recommended to leave a margin; the default is 0.5-2mm.
Motor connection method	Tips: 1. Go straight 2. Turn left 3. Turn right 4. U-turn
Equidistant or not	Note: Are the distances between each workstation equal? (If not, please provide a floor plan)
Single workstation load	Note: Weight requirements for a single workstation (i.e., the weight of a single gripper and the maximum product combined)
Motor Brand and Model	Note: For our standard motor mounting plate, we need to know the motor model and brand to avoid mismatched flange mounting holes.
Sensor output signal	Note: The factory default output signal is 'NPN'. If you need to use PNP, please specify your requirements (please indicate the brand if needed).
Spacing accuracy	Note: Positioning accuracy refers to the tolerance requirement between two workstations (normal spacing tolerance is $\pm 0.05\text{mm}$, precision spacing tolerance is $\pm 0.02\text{mm}$). The minimum center distance refers to the center distance between two movers after the mold assembly is closed. This tolerance is for reference only. The final tolerance is determined based on the range of variable distances; the larger the range of variable distances, the larger the tolerance.
Repeat positioning accuracy	Note: Repeatability refers to the error in the back-and-forth position of the slide under normal operating conditions (the normal repeatability tolerance is $\pm 0.025\text{mm}$, and the precision-grade repeatability tolerance is $\pm 0.01\text{mm}$).
Variable pitch mode	Tips: 1. Center to both sides spacing change 2. One-sided spacing change (one side moves toward the other, motor on the moving end (D), fixed end (B)) 3. Unequal spacing change (default is center to both sides spacing change)
Variable speed	Tip: Module opening and closing speed requirements and wingspan assessment
Installation method	Note: 1. Horizontal installation 2. Side installation 3. Hanging installation 4. Robot end installation
Arm Span Assessment	Note: If the wingspan exceeds 100mm, it must be reported.

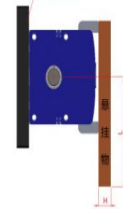
Variable pitch mode

Customer installation
arm span lengthTapered from the
middle to the sides

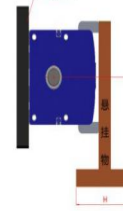
Unilateral variable pitch

Non-uniform variable
distance

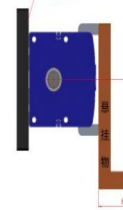
Fixed mounting plate



Fixed mounting plate



Fixed mounting plate



Support for customization, 3D models are available

MEMO

Reference data

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Maintenance Period and Scope

WT robots are designed and manufactured to be free from defects in materials and workmanship. However, should any failure occur in the robot you purchased, the WT warranty coverage is as follows

Warranty Period

The warranty period consists of the following three items; whichever comes first will be used as the basis for the warranty period.

This warranty is effective for a period of :

- 18 months (one and a half years) after shipment from Taiwan factory, or
- One year after installation or
- 2,500 hours of actual operation whichever comes first.

Exceptions to the Warranty

This warranty will not apply in the following cases :

- Fatigue arising due to the passage of time, natural wear and tear occurring during operation (natural fading of painted or plated surfaces, deterioration of parts subject to wear).
- Minor natural phenomena which do not effect the capabilities of the robot (noise from computers, motors, etc)
- Damage due to earthquakes, storms, floods, thunderbolt fire or any other natural or man-made calamities.
- Troubles caused by procedures prohibited in this manual.
- Modifications to the robot not approved by WT or WT sales representatives.
- Use of any other than genuine parts and specified lubricant and grease.
- Insufficiency or errors in maintenance and inspection.
- Repairs by other than authorized dealers.

In addition, we respond for the failure of our own goods repair, but are not responsible for other losses caused due to

Services Coverage

We provide customers with the following services :

- Guide to installation and trial operation.
Guide to maintenance.
- Guide to wiring technical operation and training.
- Guide to technical programming.

Safety Precautions

Product Safety Information

To ensure correct and safe use of WT industrial robots, carefully read this manual and make yourself well acquainted with the contents, FOLLOW THE WARNINGS, CAUTIONS AND INSTRUCTIONS INCLUDED IN THIS MANUAL. Warning information in this manual is shown classified into the following items

Safety Records

Industrial robots are highly mechanical devices that provide a large degree of freedom when performing various manipulative tasks. Failure to take necessary safety measures or mishandling due to not following the instructions in this manual may result in trouble or damage to the robot and injury to personnel (robot operator or service personnel) including fatal accidents.



DANGER

Failure to follow DANGER instructions will result in severe injury or death to the robot operator, bystanders or persons inspecting or repairing the robot



WARNING

Failure to follow WARNING instructions could result in severe injury or death to the robot operator, bystanders or persons inspecting or repairing the robot.



CAUTION

Failure to follow CAUTION instructions may result in injury to the robot operator, bystanders or persons inspecting or repairing the robot, or damage to the robot and or robot controller.



POINTS

Key points of the sequence of operations of the Electric Slide

NOTE

The operation manual cannot describe all the detailed safety items. Therefore, users must follow these precautions to develop correct safety knowledge and judgment skills. For the basic rules and specifications regarding the positioning and use of the electric slide, please refer to the sections on the electric slide in this manual.

In addition, the warning labels and operation manual of this electric slide are intended for domestic use. When exporting the electric slide abroad, the warning labels and operation manual need to be modified.

Follow the operating instructions.
Keep hands away from robot arms

Particularly Important Considerations

The following are important precautions for operating the electric sliding table. Additionally, each chapter contains notes on installation, operation, inspection, and maintenance. Please strictly follow these precautions.

Caution During Automatic Operation

Install a safeguard (protective enclosure) to keep any person from entering within the movement range of the robot and suffering injury due to being struck by moving parts.

- Install a safety interlock that triggers emergency stop when the door or panel is opened.
- Install safeguards so that no one can enter inside except from doors or panels equipped with safety interlocks.
-



DANGER

Serious injury or death will result from impact with moving robot.

- Keep outside of guard during operation.
- Lock out power before approaching robot.

Watch your fingers

Attention to hand sandwiched

Use caution to prevent hands or fingers from being pinched or crushed.



WARNING

Moving parts can pinch or crush.
Keep hands away from robot arms

About the operating instructions

Follow the instructions on listed on warning labels and in this manual.

- Be sure to read the warning labels and this manual carefully and make sure you thoroughly understand their contents before attempting installation and operation of the robot.
- Before starting robot operation, be sure to reread the procedures and cautions relating to your work as well as descriptions in this chapter ("WT product Safety Information").
- Never install, adjust, inspect or service the robot in any manner that does not comply with the instructions in this manual.



WARNING

Improper installation or operation can result in serious injury or death.
Read the owner's manual and all warning labels before operation.

Safety Precautions

Do not use the robot in environments containing inflammable gas, etc.



WARNING

- This robot was not designed for operation in environments where inflammable or explosive substances



WARNING

Avoid using the robot in locations subject to electromagnetic interference, electrostatic discharge or radio frequency interference. Malfunctions might otherwise occur.

Use caution when releasing the brake of a vertical use robot.



WARNING

- Be careful not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.



WARNING

- Turn off the robot controller and prop up the vertical axis with a support stand before removing the motor. Be careful not to let your body get caught between the vertical axis parts and installation base.



WARNING

- When you need to touch the terminals or connectors on the outside of the controller during inspection, always first turn off the controller power switch and also the power source in order to prevent possible electrical shock.
- Never touch any internal parts of the controller.

**警告 WARNING**

- If any part of the robot is damaged or any malfunction occurs, continuing the operation may be very dangerous. Please consult with your WT sales office or dealer for corrective action.
- Steel strip, roller and lubricant are consumables. We suggest to replace once a year.

Be careful not to touch the motor or speed reduction gear casing when hot.

**WARNING**

The motor and speed reduction gear casing are extremely hot after automatic operation, so burns may occur if these are touched. Before handling these parts during inspection or servicing, turn off the controller, wait for a while and check that the part has cooled.

Do not remove, alter or stain the warning labels.

**WARNING**

- Do not remove, alter or stain the warning labels on the robot.
- Do not allow the warning labels to be hidden by devices installed onto the robot by the user.
- Provide proper lighting so that the symbols and instructions on the warning labels can be clearly seen even from outside the safeguard enclosure.

Protective bonding.

**WARNING**

Be sure to ground the robot and controller to prevent electrical.

Be sure to make correct parameter settings.

**WARNING**

The robot must be operated with correct tolerable moment of inertia and acceleration coefficients according to the manipulator tip mass and moment of inertia. If these are not correct, drive unit service life may end prematurely, and damage to robot parts or residual vibration during positioning may result.

Safety Precautions

Robot Safety Functions

Overload detection.

This function detects an overload applied to the motor and shuts off the servo power.

Soft limits.

Soft limits can be set on each axis to limit the working envelope in manual operation after return-to-origin and during automatic operation.

Note: The working envelope is the area limited by soft limits.

Mechanical stoppers.

If the servo power is suddenly shut off during high-speed operation by emergency stop or safety functions, these mechanical stoppers prevent the axis from exceeding the movement range. No mechanical stopper is provided on the rotating axis.

Note: The movement range is the area limited by mechanical stoppers.



WARNING

Axis movement will not stop immediately after the servo power supply is shut off by emergency stop or other safety functions.

Vertical axis brake.

An electromagnetic brake is installed on the vertical use robot to prevent the vertical axis from sliding down when servo power is turned off. This brake is working when the controller is off or the vertical axis servo power is off even when the controller is on. The vertical axis brake can be released by means of the programming unit or by a command in the program when the controller is on.



WARNING

The vertical axis will slide down when the brake is released, creating a hazardous situation.

- Press the emergency stop button and prop the vertical axis with a support stand before releasing the brake.
- Use caution not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.

Safety Measures for the System

Since the robot is commonly used in conjunction with an automated system, dangerous situations are more likely to occur from the automated system than from the robot itself. Accordingly, appropriate safety measures must be taken the robot itself. Accordingly, appropriate safety measures must be taken. The system manufacturer should provide a proper instruction manual for safe, correct operation and servicing of the system.

Trial Operation

After making installations, adjustments, inspections, or maintenance or repairs to the robot, make a trial run using the following procedures.

If a safeguard enclosure has not yet been provided right after installation of the robot.

If a safeguard enclosure has not yet been provided right after installation of the robot rope of or chain off around the movement area of the manipulator in place of the safeguard, and observe the following points.

- 1 .Use sturdy, stable posts which will not fall over easily.
- 2 .The rope or chain should be easily visible by everyone around the robot.
- 3 .Place a sign to keep the operator or other personnel from entering the movement range of the manipulator.

Check the following points before turning on the controller.

- 1 .Is the robot securely and correctly installed?
- 2 .Are the electrical connections to the robot correct?
- 3 .Are items such as air pressure correctly supplied?
- 4 .Is the robot correctly connected to peripheral equipment?
- 5 .Have safety measures (safeguard enclosure, etc.) been taken?
- 6 .Does the installation environment meet the specified standards.

After the controller is turned on, check the following points from outside the safeguard enclosure.

After the controller is turned on, check the following points from outside the safeguard enclosure.

- 1 .Does the robot start and stop as intended? Can the operation mode be selected correctly?
- 2 .Does each axis move as intended within the soft limits?
- 3 .Does the end effector move as intended?
- 4 .Are the signal transmissions to the end effector and peripheral equipment correct?
- 5 .Does emergency stop work?
- 6 .Are the teaching and playback functions normal?
- 7 .Are the safeguard enclosure and interlock working as intended?
- 8 .Does the robot move correctly during automatic operation?

Safety Precautions

Nork Within the Safeguard Enclosure

Work within the safeguard enclosure.

(1)Work within the safeguard enclosure

When work is required inside the safeguard enclosure,always turn off the controller and place a sign indicating that the robot is being adjusted or serviced in order to keep any other person from touching the controller switch or operation panel, except for the following cases.

1)Soft limit settings

2)Teaching

For item 1), follow the precautions and procedure for each section. To perform item 2), refer to the description in (2) below.

Teaching

(2)Teaching

When performing teaching within the safeguard enclosure, comply with the instructions listed below.

Check or perform the following points from outside the safeguard enclosure.

- 1.Make sure that no hazards are present within the safeguard enclosure by a visual check.
- 2.Check that the programming unit MPB or DPB operates correctly.
- 3.Check that no failures are found in the robot.
- 4.Check that emergency stop works correctly.
- 5.Select teaching mode and prohibit automatic operation.

Automatic Operation

Automatic operation described here includes all operations in AUTO mode.

Never enter the movement range of the manipulator while within the safeguard enclosure.

(1) Check the following before starting automatic operation.

- 1.No one is within the safeguard enclosure.
- 2.The programming unit and tools are in their specified locations.
- 3.The alarm or error lamps on the robot and peripheral equipment do not flash.
- 4.The safeguard enclosure is securely installed with safety interlocks actuated.

Observe the following during automatic operation or in cases where an error occurs.

- 1) After automatic operation has started, check the operation status and warning lamp to ensure that the robot is in automatic operation.
- 2) Never enter the safeguard enclosure during automatic operation.
- 3) If an error occurs in the robot or peripheral equipment, observe the following procedure before entering the safeguard enclosure.
 - 1.Press the emergency stop button to set the robot to emergency stop.
 - 2.Place a sign on the start switch indicating that the robot is being inspected in order to keep any other person from touching the start switch and restarting the robot.

Adjustment and Inspection

Do not attempt any installation, adjustment, inspection or maintenance unless it is described in this manual.

Repair and Modification

Do not attempt any repair, parts replacement and modification unless described in this manual. These works require technical knowledge and skill, and may also involve work hazards.

Measuring tool

Parallelism Testing / Height Testing



Measuring Tools :

Dial Gauge \ Dial Indicator

Measuring Methods :

1. Fix the actuator on granite.
2. Fix the measuring tools on the actuator's slider.
3. As photo display.
4. Record it as a reference.

Absolute Straightness Accuracy Testing



Measuring Tools :

Laser Interferometer Detection

Measuring Methods :

1. Fix the actuator on granite.
2. Fix the measuring tools on the actuator's slider.
3. As photo display.
4. Print the test report as a recorder.

Absolute Straightness Accuracy Testing



Measuring Tools :

Laser Position Detection

Measuring Methods:

1. Fix the actuator on granite.
2. Use laser to align the slider's side to the
3. detect the repeatability accuracy
- As photo display.
4. Record it as a reference.

Power Drive Situation Testing by Motor Electric Current



Measuring Tools :

Mitsubishi Servo Driver 100W 200W 400W 750W

Measuring Methods :

1. Fix the actuator on granite.
2. Fix the measuring tools on the actuator's slider.
3. As photo display.
4. Record it as a reference.

Smoothness Testing



Measuring Tools :

Pull Tension Gauge

Measuring Methods :

1. Fix the actuator on granite.
2. Push the slider using pull tension gauge
3. As photo display.
4. Record it as a reference.

Belt Tension Testing



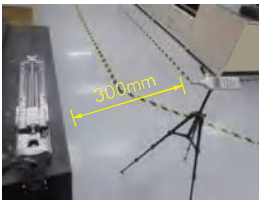
Measuring Tools :

Pull Tension Gauge

Measuring Methods :

1. Fix the actuator on granite.
2. Use belt tension gauge to test the vibration of the belt.
3. As photo display.
4. Record it on shipping testing.

Decibel Testing



Measuring Tools :

Decibel Meter

Measuring Methods :

Fix the actuator on granite.

1. Decibel meter put at the distance of 300mm.
2. Use motor to drive actuator in high speed.
3. As photo display.
4. Record it on shipping testing.

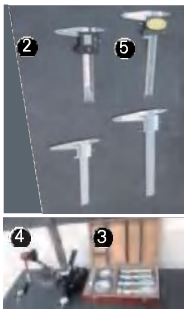
Measuring Tool: Granite Platform



Granite Specifications :

1. Size: 1295mm*600mm*140mm
2. Size: 4020mm*800mm*300mm

Material Tools



Measuring Tools :

3D Inspection Testing Machine

Electronic vernier caliper, Vernier caliper

1. Inside micrometer, Outside micrometer

2. Altimeter, Vertical meter

3. Electronic level meter

4. Dial Gauge/Dial Indicator

5. Steel tape/Steel ruler

6. Measuring tools calibration standards:

7. Block gauge, ring gauge (regularly qualified)

QC Room :

1. Control temperature and humidity to keep the stability of the measurement.
2. Measuring tools calibrate regularly.

Technology used for reference materials

External environment temperature definitio

1. Standard temperature specification: 0°~40°
2. Customized temperature: 20°~80°
special grease requirement need to follow customization process.

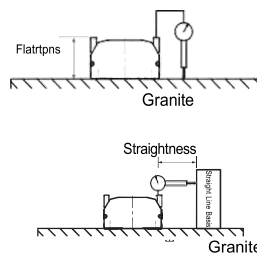
Flatness and Straightness Standard

Straightness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and straightness gauge, which should be less than 0.1mm/M.
Flatness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and mounting surface of the actuator, which should be less than 0.1mm/M.

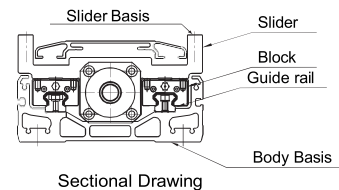
The above value is the parameter for the test environment temperature set at 26° ± 2°.

The values above are for measuring 1 m of any location and the standard of flatness must to be 0.1mm or less.

Flatness Testing Method

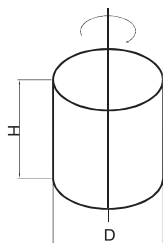


Straightness Testing Method



Equation of Moment of Inertia Calculation

Usually the load is not a simple form, and the calculation of the moment of inertia is not easy. As a method, the load is replaced with several factors that resemble a simple form for which the moment of inertia can be calculated. The total of the moment of inertia for these factors is then obtained. The objects and equations often used for the calculation of the moment of inertia are shown below.

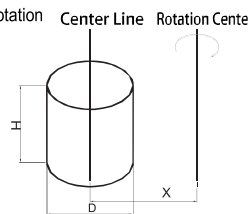


1. Moment of inertia for cylinder :
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J = \frac{P\pi D^4 h}{32 \times 980} = \frac{WD^2}{8g} \quad (\text{kgf} \cdot \text{cm} \cdot \text{sec}^2)$$

$$= \frac{mD^2}{8} \quad (\text{Kgm}^2)$$

Density (kg / cm³)
Gravitational acceleration (cm² / sec)
Weight of cylinder (kgf)
Mass of cylinder (kg)

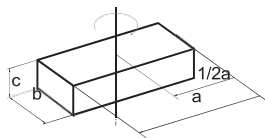


3. When the object's center line is offset from the rotation center :
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J = \frac{P\pi D^4 h}{32} + \frac{P\pi D^2 h}{4} X^2 = \frac{WD^2}{8g} + \frac{WX^2}{G} \quad (\text{kgf} \cdot \text{cm} \cdot \text{sec}^2)$$

$$= \frac{mD^2}{8} + mX^2 \quad (\text{Kgm}^2)$$

Density (kg³ / cm)
Gravitational acceleration (cm² / sec)
Weight of cylinder (kgf)
Mass of cylinder (kg)



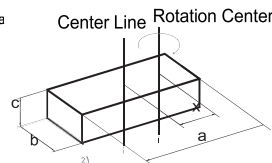
2. Calculation of Moment of Inertia for a Rectangular Parallelepiped

The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J = \frac{Pabc(a^2+b^2)}{12} = \frac{W(a^2+b^2)}{12g} \quad (\text{kgf} \cdot \text{cm} \cdot \text{sec}^2)$$

$$= \frac{M(a^2+b^2)}{12} \quad (\text{Kgm}^2)$$

Density (kg³ / cm)
Gravitational acceleration (cm / sec)
Weight of cylinder (kgf)
Mass of cylinder (kg)



$$J = \frac{Pabc(a^2+b^2)}{12} + \frac{PabcX^2}{G}$$

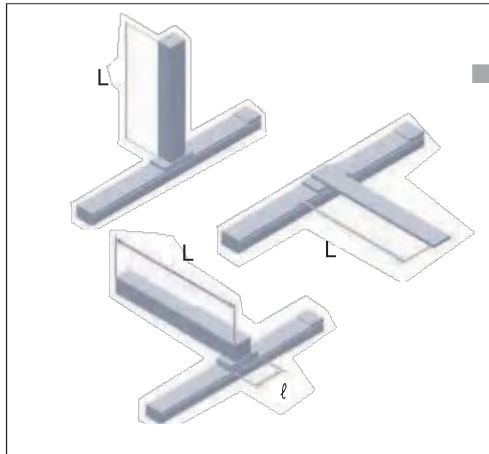
$$= \frac{W(a^2+b^2)}{12g} + \frac{WX^2}{G} \quad (\text{kgf} \cdot \text{cm} \cdot \text{sec}^2)$$

$$= \frac{M(a^2+b^2)}{12} + mX^2 \quad (\text{Kgm}^2)$$

Weight of prism (kgf)
Mass of prism (kg)

Overhang Load Length

An overhang load length is specified for a slider-type actuator to indicate the length of overhang (offset) from the actuator. When the length of an object mounted to the slider actuator exceeds this length, it will generate vibration and increase the settling time. So, pay attention to the allowable overhang length as well as the allowable dynamic moment.



The allowable overhang load length is determined by the slider length.

An overhang that exceeds the allowable overhang length will generate vibration and increase settling time.

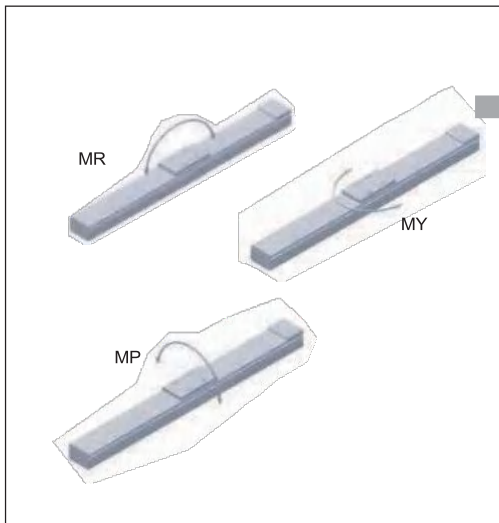
$L/e=5$ The following
Between 3 to 4 for a camera equipped

For example:
 $L/ \approx 12$. Mechanical Machine
 $L/$ Measuring Machine
 $L/ \approx 5$ Robot

Allowable Dynamic Moment

The allowable dynamic moment is the maximum offset load exerted on the slider, calculated from the guide service life.

The direction in which force is exerted on the guide is categorized into 3 directions - MP (pitch), MY (yaw), MR (roll) - the tolerance for each of which are set for each actuator. Applying a moment exceeding the allowable value will reduce the service life of the actuator. Use an auxiliary guide when working within or in excess of these tolerances.



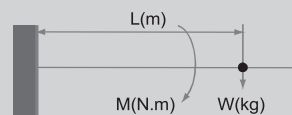
The allowable dynamic moment is calculated from the service life of the guide.

Over the moment would reduce the life of actuator.

* The allowable load moment is calculated based on the following criteria

$$M(N.m) = W(kg) \times L(m) \times 9.8$$

W: Load
L: Distance from work point to the center of gravity of payload.

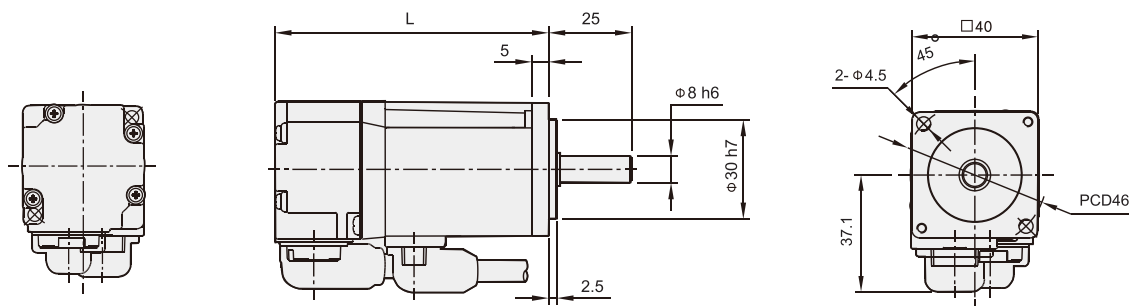


Mitsubishi Servo Motor Reference Material

Servo Motor		No Brake	HG-KR053	HG-KR13	HG-KR23	HG-KR43	HG-KR73
		With Brake	HG-KR053B	HG-KR13B	HG-KR23B	HG-KR43B	HG-KR73B
Motor Drives			MR-J4-10A	MR-J4-10A	MR-J4-20A	MR-J4-40A	MR-J4-70A
Power Supply Capacity			0.3	0.3	0.5	0.9	1.3
Power Consumption			50	100	200	400	750
Rated Torque			0.16	0.32	0.64	1.3	2.4
Instantaneous Maximum Torque (N·m)			0.56	1.1	2.2	4.5	8.4
Rated Current			0.9	0.7	1.3	2.6	4.9
Maximum Current			3.2	2.5	4.6	9.1	17.2
Rated Speed			3000				
Maximum Speed			6000				
load Inertia (X10 ⁻⁴ kg·m ²)	No Brake		0.045	0.088	0.24	0.42	1.43
	With Brake		0.0472	0.09	0.31	0.5	1.63
Recommended load-to-moment ratio			Under 15 Multiple		Under 24 Multiple	Under 22 Multiple	Under 15 Multiple
Controller	Type	Incremental, Share With 22 Bit Controller					
	Rotational Energy Decomposition	4194304 p/rev					
Structure		Natural-cooling,Open (IP Rating:IP65)					
Environmental Conditions	Ambient temperature	0℃ ~40℃ Non-freezing		-15℃ ~70℃ Non-freezing			
	Ambient Humidity	80%RH Non-freezing		90%RHNon-condensing			
	Installation site	Indoors(no direct sunlight), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.					
	Altitude	Max. 1000 m Above Sea Level					
	Vibration	49m ² /s					
Weight	No Brake		0.34	0.54	0.91	1.4	2.8
	With Brake		0.54	0.74	1.3	1.8	3.8

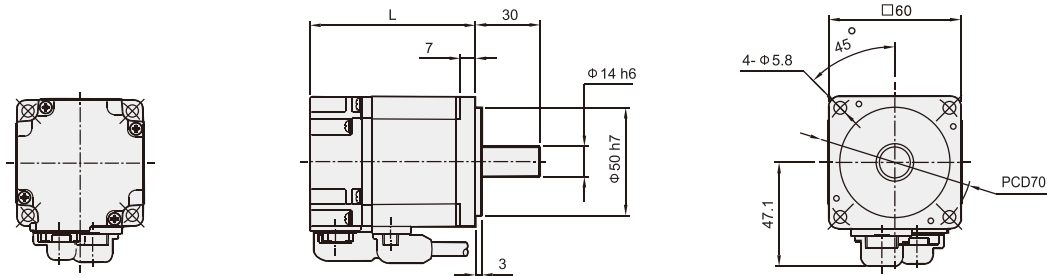
Model	50W	L	Model	100W	L
HG-KR053	No Brake	66.4	HG-KR13	No Brake	82.4
HG-KR053B	With Brake	107	HG-KR13B	With Brake	123

50/100W



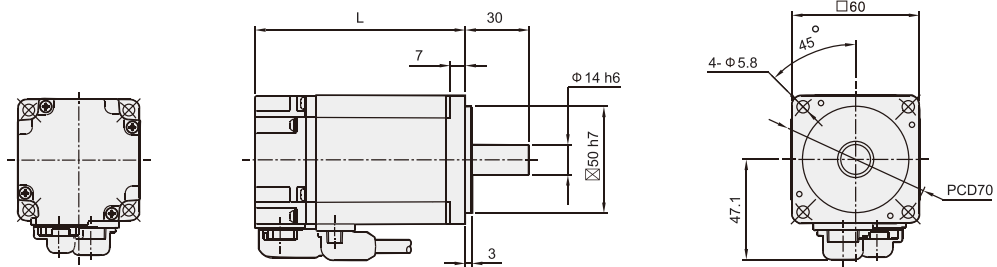
Model	200W	L
HG-KR23	No Brake	76.6
HG-KR23B	With Brake	113.4

200W



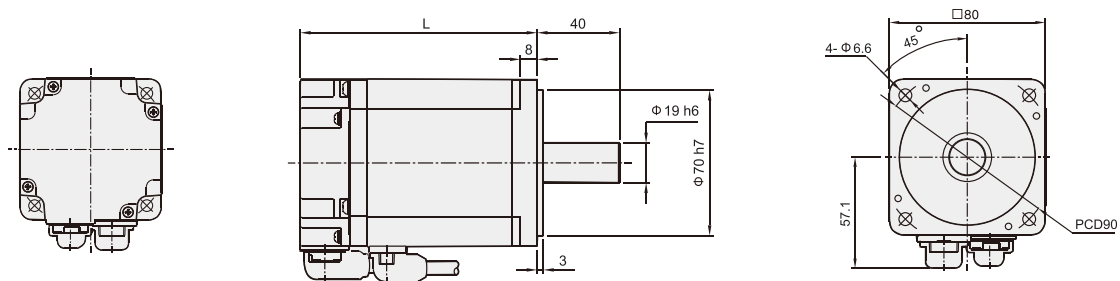
Model	200W	L
HG-KR43	No Brake	98.3
HG-KR43B	With Brake	135.1

400W



Model	200W	L
HG-KR73	No Brake	112
HG-KR73B	With Brake	152.3

750W

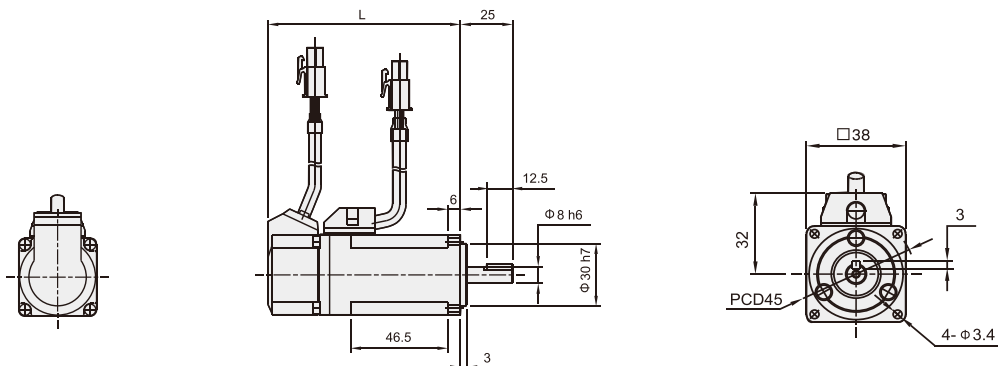


International Servo Motor Reference Materials

Servo Motor	No Brake	MSMD5A2G1U	MSMD012G1U	MHMD022G1U	MHMD042G1U	MHMD082G1U
	With Brake	MSMD5A2G1V	MSMD012G1V	MHMD022G1V	MHMD042G1V	MHMD082G1V
Motor Drives		MADHT1505	MADHT1505	MADHT1507	MBDHT2510	MCDHT3520
Power Supply Capacity		0.3	0.3	0.5	0.9	1.3
Power Consumption		50	100	200	400	750
Rated Torque		0.16	0.32	0.64	1.3	2.4
Instantaneous Maximum Torque (N·m)		0.48	0.95	1.9	3.8	7.1
Rated Current		1.1	1.1	1.6	2.6	4
Maximum Current		4.7	4.7	6.9	11	17
Rated Speed		3000				
Maximum Speed		5000				
load Inertia ($\times 10^{-4}$ kg·m ²)	No Brake	0.025	0.051	0.42	0.67	1.51
	With Brake	0.027	0.054	0.45	0.7	1.61
Recommended load-to-moment ratio		Under 30 Multiple				
Controller	Pulse	Incremental				
	Resolution	10000				
Structure		Natural-cooling,Open (IP Rating:IP65)				
Environmental Conditions	Ambient temperature	0℃ ~40℃ Non-freezing -20℃ ~80℃ Non-freezing				
	Ambient Humidity	80%RH Non-freezing				
	Installation site	Indoors(no direct sun light), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.				
	Altitude	Max. 1000 m Above Sea Level				
	Vibration	49m ² /s				
Weight	No Brake	0.32	0.47	0.96	1.4	2.5
	With Brake	0.53	0.68	1.4	1.8	3.3

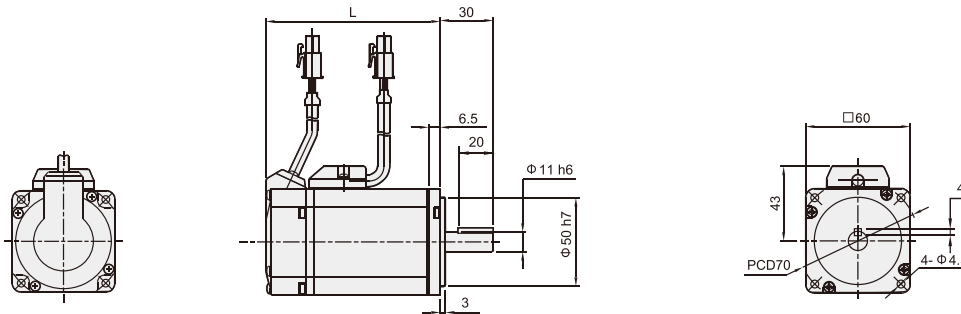
Model	50W	L	Model	100W	L
MSMD012G1U	No Brake	92	MSMD5A2G1U	No Brake	72
MSMD012G1V	With Brake	122	MSMD5A2G1V	With Brake	102

50/100W



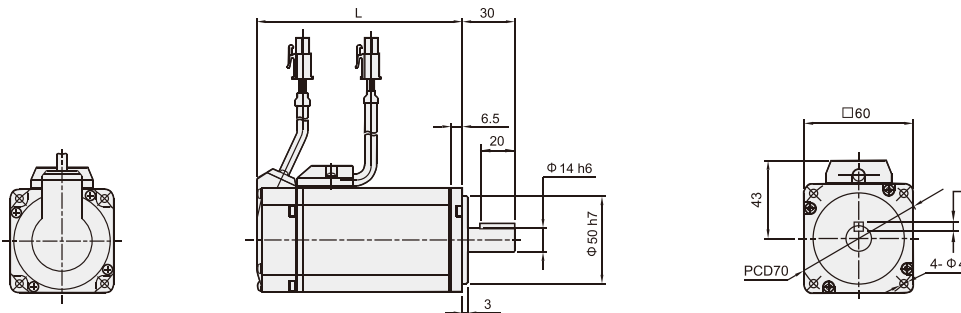
Model	200W	L
MHMD022G1U	No Brake	98.5
MHMD022G1V	With Brake	135

200W



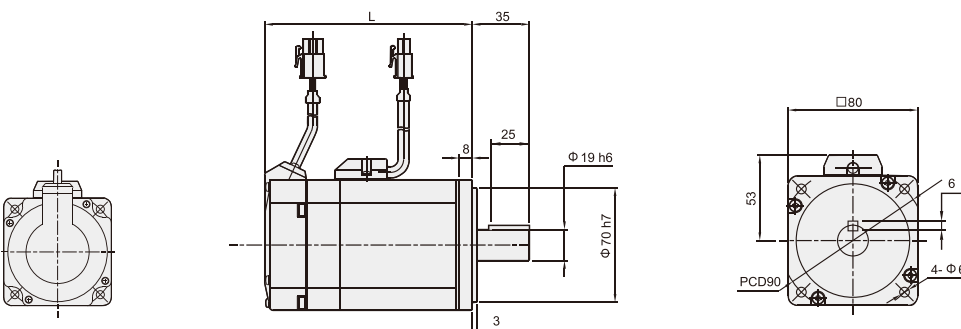
Model	400W	L
MHMD042G1U	No Brake	118
MHMD042G1V	With Brake	154.5

400W



Model	750W	L
MHMD082G1U	No Brake	127
MHMD082G1V	With Brake	164

750W



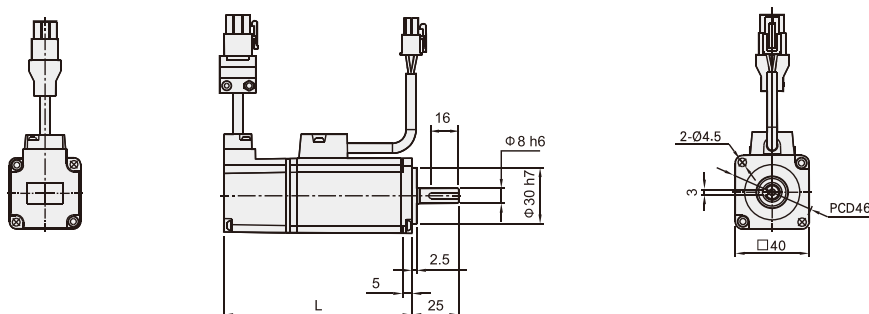
Delta Servo Motor Reference Material

Servo Motor	No Brake	ECMA-C1040FES	ECMA-C20401ES	ECMA-C20602ES	ECMA-C20604ES	ECMA-C20807ES
	With Brake	ECMA-C1040FFS	ECMA-C20401FS	ECMA-C20602FS	ECMA-C20604FS	ECMA-C20807FS
Motor Drives		ASD-B20121-B	ASD-B20121-B	ASD-B20221-B	ASD-B20421-B	ASD-B20721-B
Power Consumption		50	100	200	400	750
Rated Torque		0.159	0.32	0.64	1.27	2.39
Instantaneous Maximum Torque (N·m)		0.477	0.96	1.92	3.82	7.16
Rated Current		0.66	0.9	1.55	2.6	5.1
Maximum Current		2	2.7	4.65	7.8	15.3
Rated Speed		3000				
Maximum Speed		5000				
load Inertia (X10 ⁻⁴ kg·m ²)	No Brake	0.0206 E-4	0.037 E-4	0.177 E-4	0.277 E-4	1.13 E-4
	With Brake	0.0236 E-5	0.04 E-4	0.19 E-4	0.30 E-4	1.18 E-4
Controller	Type	Incremental, Share With 17 Bit Controller				
	One-minute decomposition capacity	131072 p/rev				
Structure		IP65				
Environmental Conditions	Ambient temperature	0℃~40℃ -10℃~80℃Non-freezing				
	Ambient Humidity	20%~90%RH Non-condensing				
	Installation site	Indoors(no direct sunlight), Free From Corrosive Gas, Flammable Gas, Oil Mist, Dust, And Dirt.				
	Altitude	Max. 1000 m Above Sea Level				
	Vibration	20HzThe following g. 80665m/s ² (1G)				
Weight	No Brake	0.42	0.5	1.2	1.6	3
	With Brake	0.73	0.8	1.5	2	3.8

Model	50W	L
ECMA-C1040FES	No Brake	79.1
ECMA-C1040FFS	With Brake	109.1

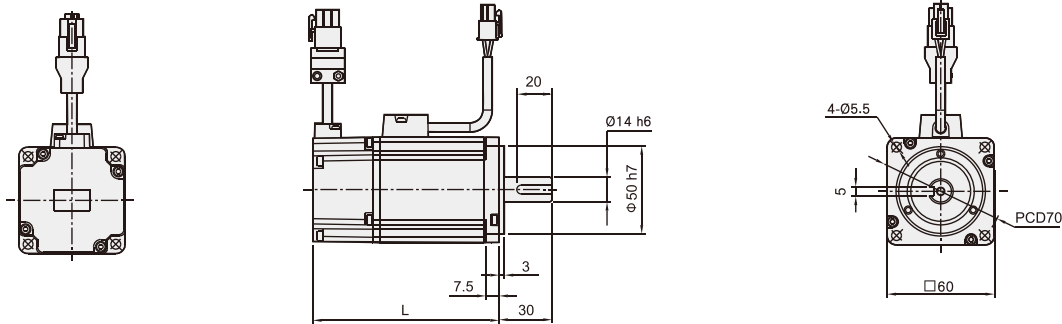
Model	100W	L
ECMA-C20401ES	No Brake	100.6
ECMA-C20401FS	With Brake	130.6

50/100W



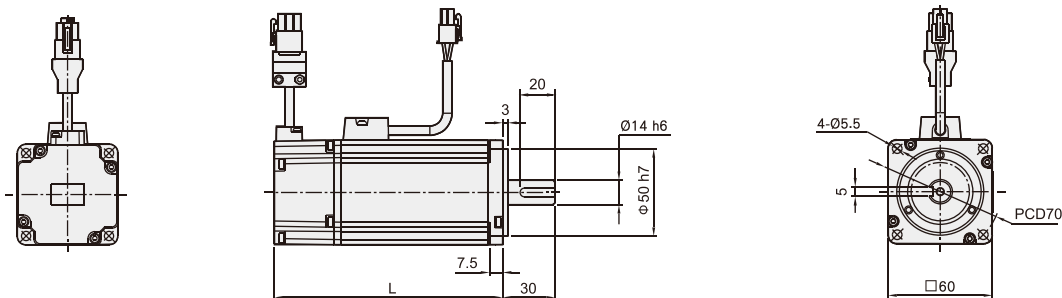
Model	200W	L
ECMA-C20602ES	No Brake	105.5
ECMA-C20602FS	With Brake	141.6

200W



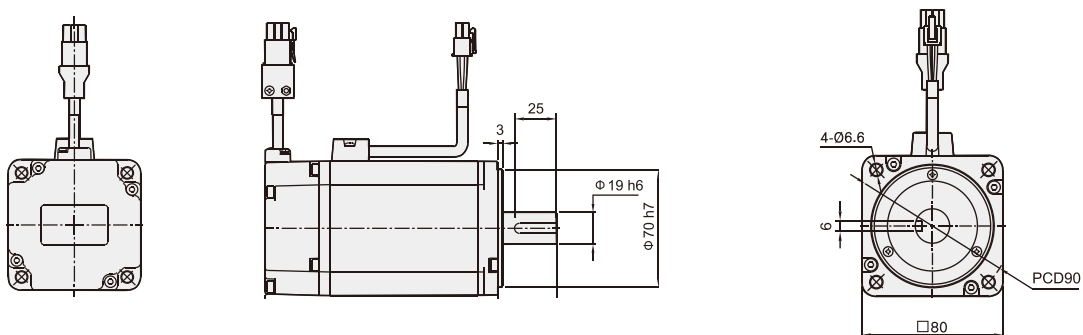
Model	400W	L
ECMA-C20604ES	No Brake	130.7
ECMA-C20604FS	With Brake	166.8

400W



Model	750W	L
ECMA-C20807ES	No Brake	138.3
ECMA-C20807FS	With Brake	178

750W



Stepper Motor Reference Materials

Tamagawa Step Motor

Model Number	TS3617N3E8	TS3653N1E2
Motor Drives	CD-2D34M	CD-2D34M
Size	42	57
Holding Torque	0.32	0.39
Rotor Inertia	68	120
Rated Current	4	2.8
Rated Current	1.2	2
Step Angle	1.8°	
Input Source	DC24V	
Exciting Pattern	Micro Step	
Weight	0.3	0.45

Oriental Step Motor

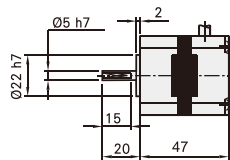
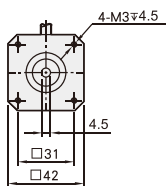
Model Number	PK245-01A	PK264-02A
Motor Drives	UDK2112	CMD2120P
Size	42	57
Holding Torque	0.32	0.39
Rotor Inertia	68	120
Rated Current	1.2	2
Step Angle	1.8°	
Input Source	Single-phase 100V	DC24V
Exciting Pattern	Micro Step	
Weight	0.35	0.45

Tamagawa Step Motor

Model Number	103H5209-0440	103H7121-0140
Motor Drives	US1D200P10	US1D200P10
Size	42	57
Holding Torque	0.32	0.39
Rotor Inertia	62	100
Rated Current	1.2	1
Step Angle	1.8	
Input Source	DC24V	
Exciting Pattern	Micro Step	
Weight	0.31	0.47

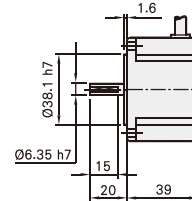
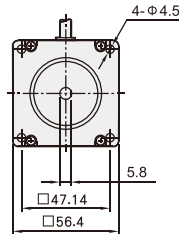
Model

42M-TS3617N3E8



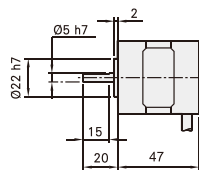
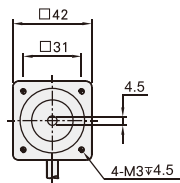
Model

57M-TS3653N1E2



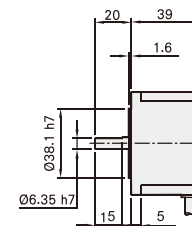
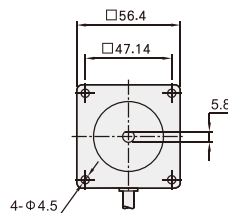
Model

42M-PK245-01A



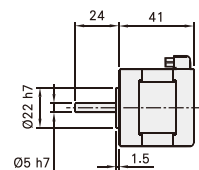
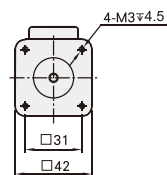
Model

57M-PK264-02A



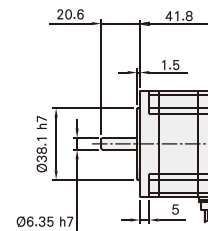
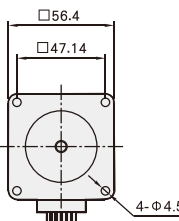
Model

42M-103H5209-0440



Model

57M-103H7121-0140



WOD

Module Catalog

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