



**WOITOP**



# Guide Rail Clamp Product 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.



Please follow the steps below to select the appropriate rail clamp.[eos]

### Selection Steps

1. Determine the type
2. Determine the model
3. Confirm holding force
4. Confirm the size and specifications

### Selection Example

- Linear guide used: SSR 15XWY manufactured by THK
- Required holding force: 200N
- Purpose: Fix the sliding table



### 1. Determine the type

Please refer to the product overview and each product page to choose the one that meets your requirements.

When used as an emergency brake, be sure to choose a type with a braking mechanism.

### 1. Determine the type

Since the purpose is to fix the sliding table and an emergency brake is not needed, an air-pressure type normally closed TMKS is chosen here.

Product Symbol	TMK	TMKS
Page number	P.3-20	P.21-38
Shape		
Characteristics	Normally Open	Normally closed

### 2. Determine the model

Please find the guide rail clamp suitable for the linear guide rails being used from the selection tables on each product introduction page.

When selecting a model, information about the following guide rails is needed.

- ① Manufacturer of guide rails
- ② Guide Rail Type
- ③ Nominal size of the guide rail
- ④ Slide Type

### 2. Determine the model

From the TMKS selection table, it can be seen that it is suitable for the THK-produced SSR 15XWY model, which is TMKS-1501-A.F

	SSR	Model	Product Symbol
		55	C.L.C.V.L.V
		65	R.L.R
		65	C.L.C.V.L.V
		15	XWY.XVY.XTBY
		20	XTB.XW.XV
		25	XTBY.XWY.XVY
		30	XW
		35	XW
		25	C.L.C.R.L.R
		30	C.L.C.R.L.R
		35	C.L.C.R.L.R
			RH.LRH
			C.L.C.R.L.R

### 3. Determine holding force

Please confirm that the holding force of the guide rail clamp, determined using the dimensions and performance table, should be greater than the required holding force. When the holding force is insufficient, please change the type of rail clamp or increase the number of rail clamps used.

### 3. Determine holding force

From the TMKS size and performance table, it can be seen that a TMKS-1501-A is used to achieve a holding force of 200N.

TMKS opening pressure: 0.6 MPa			
Model	Endurance (N) (Note) Standard Connection / Boosted Connection	Shape	A
TMKS-1201-A	250 / 600	100	48.6
TMKS-1501-A	400 / 1050	100	55
TMKS-2001-A	600 / 1300	100	66
	750 / 1400	100	75

### 4. Determine the size and specifications



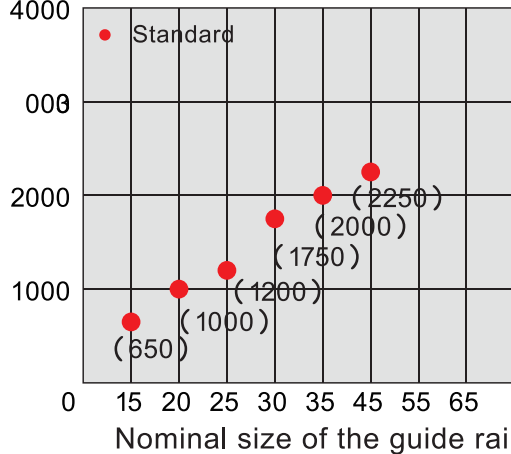
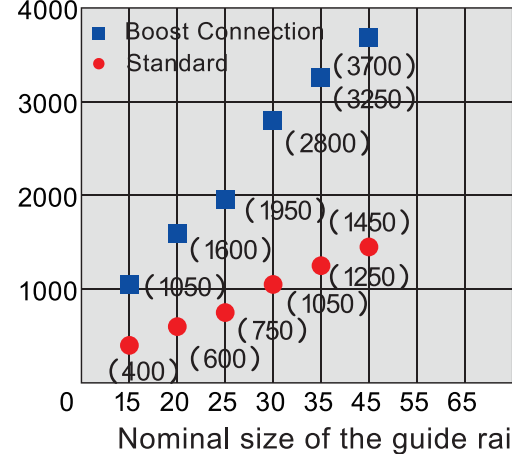
Finally, please confirm whether the dimensions, specifications and other requirements meet the design criteria.

### 4. Determine the size and specifications

Upon confirmation, in terms of other sizes and specifications, TMKS-1501-A

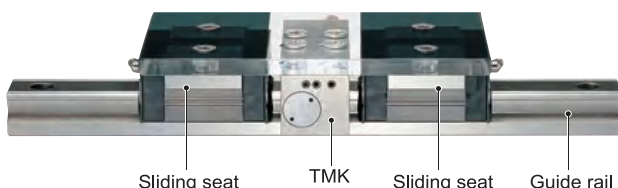


● For linear guides and square shafts

Product Symbol	TMK	TMKS
Page number	P.3-20	P.21-38
Shape		
Characteristics	Normally Open	Normally closed
Control method	Air pressure	Air pressure
Staying power	<p>Staying power (N)</p>  <p>Nominal size of the guide rail</p>	<p>Staying power (N)</p>  <p>Nominal size of the guide rail</p>



- Used for fixing the slide table, positioning, and preventing vibration.
- Normally open type.  
Clamps the linear guide when air pressure is on.  
Releases the clamp when air pressure is off.
- Compact design, can also be used on square shafts.  
For the hardness, dimensions, and allowable tolerances of square shafts, please refer to the following pages.
- Special custom products with different pneumatic connection positions, mounting hole positions, etc., are also available. Please consult the customer center.
- Can be easily assembled into existing systems. No design changes such as extending the length of the guide rail or changing the size of the slide table are required.



### Material, surface treatment

	TMK
subject	Equivalent to 4Cr15
Air filterF	SUS304
Contact surface	Equivalent to 102Cr17Mo No surface treatment
Adjustment Bolt	Equivalent to 102Cr17Mo No surface treatment
Front cover	SUS303

### Plumbing

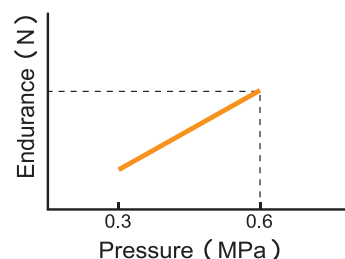
Nominal size of the guide rail	Nominal Thread Diameter	Air consumption (ℓ/Cycle (ANR))
#15	M5	0.011
#20	M5	0.019
#25	M5	0.021
#30	M5	0.031
#35	M5	0.031
#45	M5	0.041

Note: Values at a pressure of 0.6 MPa.

### Staying power

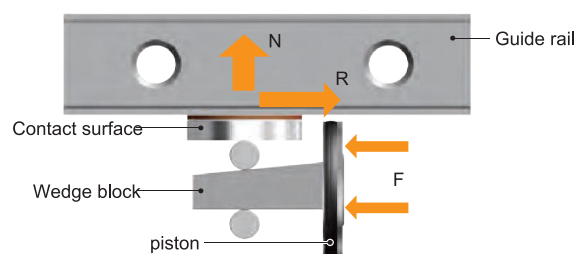
The holding force in this product catalog is the value at a pressure of 0.6 MPa.

The holding force is proportional to the pressure in the range of 0.3 MPa to 0.6 MPa.



- TMK's strong holding power comes from the amplifying effect of the wedge block's beveled edge.

The force  $F$  generated by air pressure acts on the piston and is then converted into the force  $N$  through the wedge, with the effect of the inclined surface amplifying it. At this moment, the magnitude of the force  $N$  is equal to the force  $F$  multiplied by  $1/\tan\theta$  ( $\theta$  being the angle of the wedge). This force  $N$  generates a frictional force  $R$  on the linear guide, and this frictional force is the strong holding force of TMK.



### Specification

Control direction	Air pressure, normally open
Minimum Operating Pressure	0.3MPa
Maximum Operating Pressure	0.6MPa
Response Time	Up to 0.06s
Operating Temperature	0°C~70°C
Clamping Life [Note]	Up to 5,000,000 times
Nominal size of the applicable guide rail	#15~#45

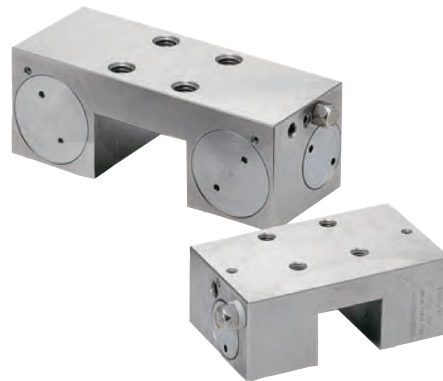
Note: The reference values are not guaranteed.

### Install

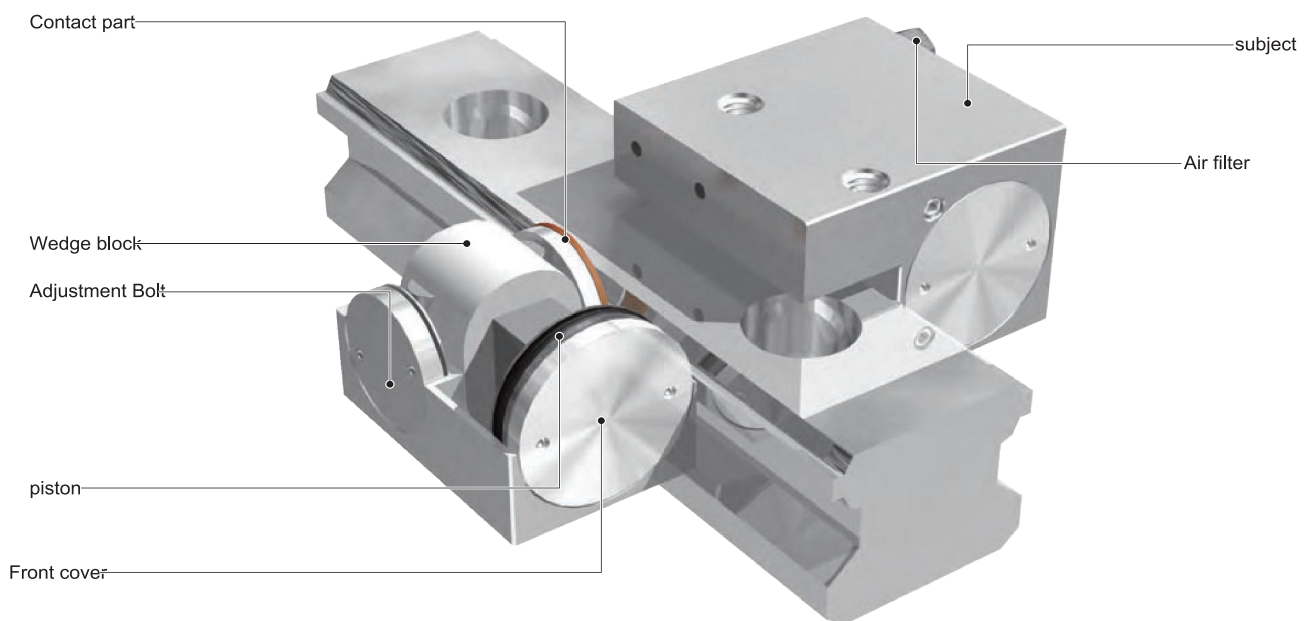
Nominal Thread Diameter [Note]	Fastening Torque (N·m)
M4	2.8
M5	5.5
M6	9.5
M8	23
M10	46

Note: Please use bolts with a strength grade of 8.8 or higher. For installation methods and usage precautions, please refer to the following pages.



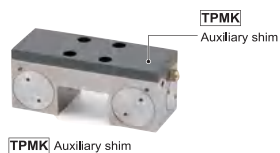


## ● Construct



## ● Related Products

To make the height of the TMK consistent with that of the linear guide slider, auxiliary shims can be used.



Available in pneumatic and normally closed TMKS types.

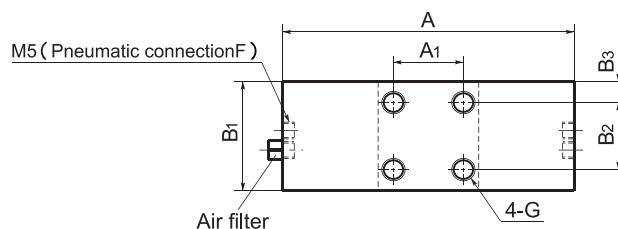
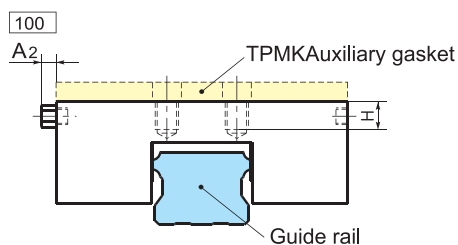


Model designation

TMK-3501-A

Model





### Size and performance

Notes: mm

Model	Staying power <sup>[Note]</sup> ( N )	A	A1	A2	B1	B2	B3	G	H	Quality ( kg )
TMK-1501-A	650	55	15	6	39	15	15.5	M4	4.5	0.23
TMK-2001-A	1000	66	20	6	39	20	5	M5	5.5	0.32
TMK-2501-A	1200	75	20	5	35	20	5	M6	8	0.36
TMK-3001-A	1750	90	22	5	39	22	8.5	M8	10	0.61
TMK-3501-A	2000	100	24	5	39	24	7.5	M8	10	0.69
TMK-4501-A	2250	120	26	5	49	26	11.5	M10	15	1.34

Note: The value corresponds to a pressure of 0.6 MPa, and the holding force is proportional to the pressure within the range of 0.3 MPa to 0.6 MPa.

Model designation

TMK-3501-A

Model

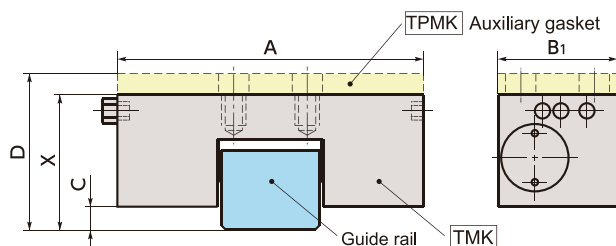


● Selection Table

● THK

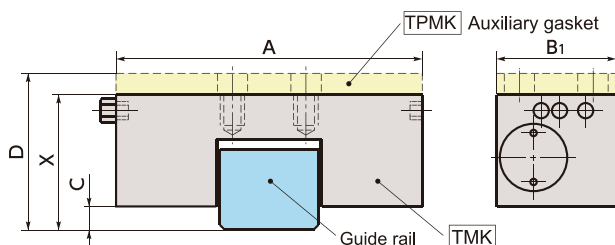
Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SHS	15	C,LC	TMK-1501-A	-	55	39	2.5	24	24
		V,LV		TPMK-15-4					28
		R							
	20	C,LC	TMK-2001-A	-	66	4.5	30	30	
		V,LV							
	25	C,LC	TMK-2501-A	TPMK-25-2	75	35	6	34	36
		V,LV		40					
		R,LR							
	30	C,LC	TMK-3001-A	-	90	39	7	42	42
		V,LV		45					
		R,LR							
	35	C,LC	TMK-3501-A	TPMK-35-4	100	7.5	44	48	
		V,LV		55					
		R,LR							
	45	C,LC	TMK-4501-A	TPMK-45-6	120	49	10.5	54	60
		V,LV		70					
		R,LR							
	HSR	15	A,B	TMK-1501-A	-	55	39	25	24
R			TPMK-15-4		28				
20		A,LA,B,LB,CA,HA,CB,HB	TMK-2001-A	-	66	4.5	30	30	
		R,LR							
25		A,LA,B,LB,CA,HA,CB,HB	TMK-2501-A	TPMK-25-4	75	35	8	36	36
		R,LR							40
30		A,LA,B,LB,CA,HA,CB,HB	TMK-3001-A	-	90	39	7	42	42
		R,LR		TPMK-30-3					45
35		A,LA,B,LB,CA,HA	TMK-3501-A	TPMK-35-3	100	8.5	45	48	
		CB,HB		TPMK-35-10				55	
		R,LR							
45		A,LA,B,LB	TMK-4501-A	-	120	49	16.5	60	60
		CA,HA,CB,HB		TPMK-45-10					70
		R,LR							
SSR		15	XTBY	TMK-1501-A	-	55	39	2.5	24
	XWY,XVY		24						
	20	XTB	TMK-2001-A	66		28	28		
		XW,XV							
	25	XTBY	TMK-2501-A	75		35	5	33	33
		XWY,XVY							
	30	XW	TMK-3001-A	90		39	7	42	42
35	TMK-3501-A		100		11.5		48	48	



Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions					
					A	B <sub>1</sub>	C	X	D	
SR	15	TB,SB	TMK-1501-A	-	55	39	2.5	24	24	
		W,V								
	20	TB,SB	TMK-2001-A		66			28	28	
		W,V								
	25	TB,SB	TMK-2501-A		75	35	5	33	33	
		W,V								
	30	TB,SB	TMK-3001-A		90	39	7	42	42	
		W,V								
	35	TB,SB	TMK-3501-A		100		11.5	48	48	
		W,V								
45	TB	TMK-4501-A	120	49	16.5	60	60			
	W									
SVR	30	C,LC,LR,R	TMK-3001-A	-	90	68	3	38	38	
	35	CH,LCH	TMK-3501-A	TPMK-35-3	100	67	4.5	41	44	
				TPMK-35-7					48	
				TPMK-35-14					55	
	45	C,LC,LR,R	TMK-4501-A		120	82	85	52	52	
				TPMK-45-8					60	
				TPMK-45-18					70	
SVS	30	C,LC,LR,R	TMK-3001-A	-	90	68	3	38	38	
				TPMK-35-3	100	67	4.5	41	44	
	CH,LCH	TMK-3501-A	TPMK-35-7	48						
			LRH,RH	TPMK-35-14					55	
	45	C,LC,LR,R	TMK-4501-A		120	82	8.5	52	52	
				CH,LCH					TPMK-45-8	60
				LRH,RH					TPMK-45-18	70



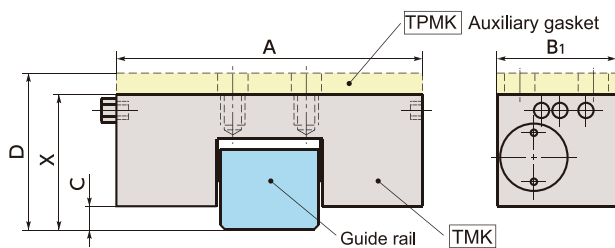


● Selection Table

• THK

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
NR/NRS	30	A,LA,B,LB	TMK-3001-A	-	90	39		38	38
		R,LR							
	35	A,LA,B,LB	TMK-3501-A		100		7.5	44	44
		R,LR							
	45	A,LA,B,LB	TMK-4501-A		120		8.5	52	52
		R,LR							
30	C,LC	TMK-3001-A	90		3	38	38		
	R,LR								
SNR/SNS	35	C,LC	TMK-3501-A	100	39	7.5	44	44	
		R,LR						55	
		RH,LRH							
	45	C,LC	TMK-4501-A	-	120	8.5	52	52	
		R,LR		TPMK-45-8				60	
		RH,LRH		TPMK-45-18				70	
		CH,LCH							

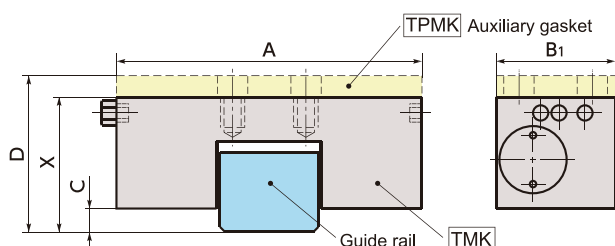


### ● Selection Table

• IKO

Unit: mm

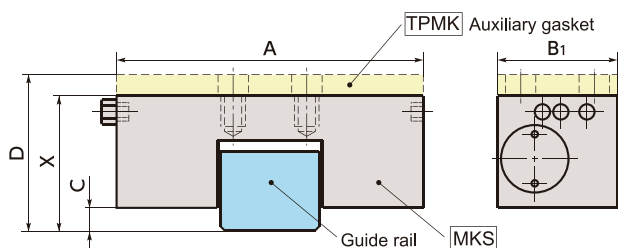
Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
ME	15	MEC,ME,MEG,METC,MET,METG	TMK-1501-A		55	39	2.5	24	24
		MESC,MES,MESG							
	20	MEC,ME,MEG,METC,MET,METG	TMK-2001-A		66	39	2.5	28	28
		MESC,MES,MESG							
	25	MEC,ME,MEG,METC,MET,METG	TMK-2501-A		75	35	5	33	33
		MESC,MES,MESG							
	30	MEC,ME,MEG,METC,MET,METG	TMK-3001-A		90	39	7	42	42
		MESC,MES,MESG							
	35	MEC,ME,METC,MET	TMK-3501-A		100	39	11.5	48	48
		MESC,MES							
	45	ME,MET	TMK-4501-A		120	49	16.5	60	60
		MES							
LWE	20	LWE..Q,LWET..Q	TMK-2001-A		66	39	2.5	28	28
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	25	LWE..Q,LWET..Q	TMK-2501-A		75	35	5	33	33
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	30	LWE..Q,LWET..Q	TMK-3001-A		90	39	7	42	42
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	35	LWE..Q,LWET..Q	TMK-3501-A		100	39	11.5	48	48
		LWEC,LWE,LWETC,LWET							
		LWES..Q							
		LWESC,LWES							
	45	LWE,LWET	TMK-4501-A		120	49	16.5	60	60
		LWES							





Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
MH	15	MH,MHT	TMK-1501-A	TPMK-15-4	55	39	2.5	24	24
		MHS							28
		MHD							28
	20	MH,MHG,MHT,MHTG	TMK-2001-A	-	66	39	4.5	30	30
		MHS,MHSG							30
	25	MH,MHG,MHT,MHTG	TMK-2501-A	TPMK-25-4	75	35	8	36	36
		MHS,MHSG							40
		MHD,MHDG							40
	30	MH,MHG,MHT,MHTG	TMK-3001-A	TPMK-30-3	90	39	7	42	42
		MHS,MHSG							45
		MHD,MHDG							45
	35	MH,MHG,MHT,MHTG	TMK-3501-A	TPMK-35-7	100	39	11.5	48	48
		MHD,MHDG							55
LWH	15	MH,MHG,MHT,MHTG	TMK-4501-A	TPMK-45-2 TPMK-45-12	120	49	14.5	58	60
		MHD,MHDG							70
		MHD,MHDG							70
	15	LWH,LWHT	TMK-1501-A	TPMK-15-4	55	39	2.5	24	24
		LWHS							28
		LWHD,LWHY							28
	20	LWH,LWHG,LWHT,LWHTG	TMK-2001-A	-	66	39	4.5	30	30
		LWHS,LWHSG							30
		LWHY							30
	25	LWH,LWHG,LWHT,LWHTG	TMK-2501-A	TPMK-25-4	75	35	8	36	36
		LWHS,LWHSG							40
		LWHD,LWHDG							40
		LWHY							40
	30	LWH,LWHG,LWHT,LWHTG	TMK-3001-A	TPMK-30-3	90	39	7	42	42
		LWHS,LWHSG							45
		LWHD,LWHDG							45
		LWHY							45
	35	LWH,LWHG,LWHT,LWHTG	TMK-3501-A	TPMK-35-7	100	39	11.5	48	48
		LWHD,LWHDG							55
		LWHY							55
	45	LWH,LWHG,LWHT,LWHTG	TMK-4501-A	TPMK-45-2 TPMK-45-12	120	49	14.5	58	60
		LWHD,LWHDG							70
		LWHY							70

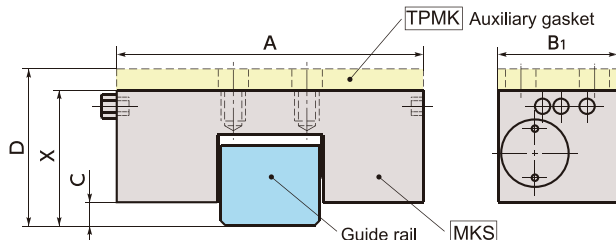


### ● Selection Table

• IKO

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
MX	25	MXC,MX,MXG,MXL	TMK-2501-A	-	75	35	8	36	36
		MXSC,MXS,MXSG,MXSL					12	40	40
		MXDC,MXD,MXDG,MXDL							
	30	MXC,MX,MXG,MXL	TMK-3001-A		90	39	7	42	42
		MXSC,MXS,MXSG,MXSL					10	45	45
		MXDC,MXD,MXDG,MXDL							
	35	MXC,MX,MXG,MXL	TMK-3501-A	100		11.5	48	48	
		MXDC,MXD,MXDG,MXDL						55	
	45	MXC,MX,MXG,MXL	TMK-4501-A	-	120	49	16.5	60	60
		MXDC,MXD,MXDG,MXDL		TPMK-45-10					
LRX	25	LRXC,LRX,LRXG	TMK-2501-A	-	75	35	8	36	36
		LRXSC,LRXS,LRXSG					12	40	40
		LRXDC,LRXD,LRXDG							
	30	LRXC,LRX,LRXG	TMK-3001-A		90	39	7	42	42
		LRXSC,LRXS,LRXSG					10	45	45
		LRXDC,LRXD,LRXDG							
	35	LRXC,LRX,LRXG	TMK-3501-A	TPMK-35-7	100		11.5	48	48
		LRXDC,LRXD,LRXDG							55
	45	LRXC,LRX,LRXG	TMK-4501-A	-	120	49	16.5	60	60
		LRXDC,LRXD,LRXDG		TPMK-45-10					



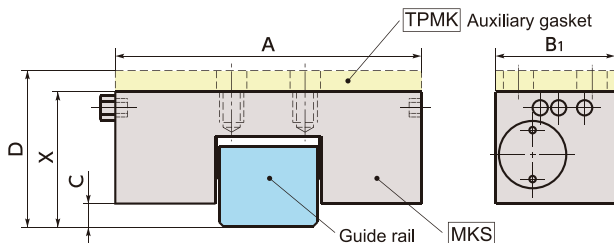


● Selection Table

• NSK

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions					
					A	B <sub>1</sub>	C	X	D	
NH	15	EM,GM	TMK-1501-A	-	55	39	2.5	24	24	
				TPMK-15-4					28	
	20	AN,BN	TMK-2001-A		66		4.5	30	30	
		EM,GM								
	25	AL,BL	TMK-2501-A		75	35	8	36	36	
		EM,GM								40
		AN,BN							TPMK-25-4	
	30	AL,BL	TMK-3001-A	-	90	39	10	42	42	
		AN,BN		TPMK-30-3			7		45	
		EM,GM					10			
	35	AL,BL	TMK-3501-A	-	100		11.5	48	48	
		EM,GM							55	
		AN,BN		TPMK-35-7						
	45	EM,GM	TMK-4501-A	-	120	49	16.5	60	60	
		AN,BN		TPMK-45-10					70	
NS	15	CL,AL	TMK-1501-A		55	39	2.5	24	24	
		JM,EM								28
	20	CL,AL	TMK-2001-A		66			2		
		JM,EM								
	25	CL,AL	TMK-2501-A		75	35	5	33		33
		JM,EM								
	30		TMK-3001-A		90	39	7	42	42	
35	CL,AL	TMK-3501-A	100	7.5	44		48			
LH	15	EM,GM,EL,GL,FL,HL	TMK-1501-A	-	55	39	2.5	24	24	
				TPMK-15-4					28	
	20	AN,BN	TMK-2001-A		66		4.5	30	30	
		EM,GM,EL,GL,FL,HL							-	
	25	AL,BL	TMK-2501-A		75	35	8	36	36	
		EM,GM,EL,GL,FL,HL								40
		AN,BN							TPMK-25-4	
	30	AL,BL	TMK-3001-A	-	90	39	10	42	42	
		AN,BN		TPMK-30-3			7		45	
		EM,GM,EL,GL,FL,HL					10			
	35	AL,BL	TMK-3501-A	-	100		11.5	48	48	
		EM,GM,EL,GL,FL,HL							55	
		AN,BN		TPMK-35-7						
	45	EM,GM,EL,GL,FL,HL	TMK-4501-A	-	120	49	16.5	60	60	
		AN,BN		TPMK-45-10					70	

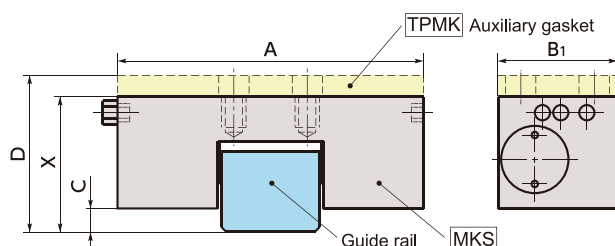


### ● Selection Table

●NSK

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SH	15	EM,GM	TMK-1501-A	-	55	39	2.5	24	24
		AN,BN		TPMK-15-4					28
	20	EM,GM	TMK-2001-A		66	35	4.5	30	30
		AL,BL							36
	25	EM,GM	TMK-2501-A	TPMK-25-4	75	35	8	36	40
		AN,BN							42
		AL,BL							42
	30	EM,GM	TMK-3001-A		90	39	7	42	45
		AN,BN							48
		AL,BL							55
	35	EM,GM	TMK-3501-A	TPMK-35-7	100	39	11.5	48	48
		AN,BN							48
		AL,BL							48
LS	15	CL,AL	TMK-1501-A		55	39	2.5	24	24
		JM,EM							28
	20	CL,AL	TMK-2001-A		66	35	5	33	33
		JM,EM							33
	25	CL,AL	TMK-2501-A		75	35	5	33	33
		JM,EM							33
	30	CL,AL	TMK-3001-A		90	39	7	42	42
		KL,FL,EL							42
	35	CL,AL	TMK-3501-A	TPMK-35-4	100	39	7.5	44	48
		KL,FL,EL							48
SS	15	CL,AL	TMK-1501-A		55	39	2.5	24	24
		KL,EM							28
	20	CL,AL	TMK-2001-A		66	35	5	33	33
		KL,EM							33
	25	CL,AL	TMK-2501-A		75	35	5	33	33
		KL,EM							33
	30	CL,AL	TMK-3001-A		90	39	7	42	42
		KL,EM							42
	35	CL,AL	TMK-3501-A	TPMK-35-4	100	39	7.5	44	48
		KL,EM							48





Unit: mm

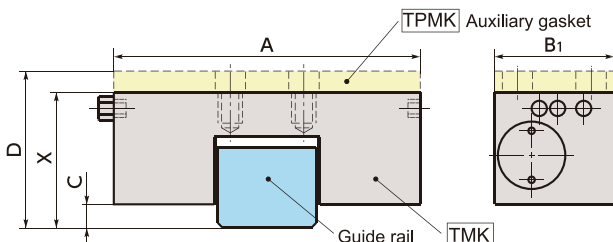
Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
LA	25	EL,FL,GL,HL	TMK-2501-A	-	75	35	8	36	36
		AN,BN		TPMK-25-4					40
	30	EL,FL,GL,HL	TMK-3001-A		90		7	42	42
		AN,BN							45
	35	AL,BL	TMK-3501-A		100	39	11.5	48	48
		EL,FL,GL,HL							55
		AN,BN							
	45	AL,BL	TMK-4501-A		120	49	16.5	60	60
		EL,FL,GL,HL							70
		AN,BN							

● 选型表

• NSK

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
LY	15	AL	TMK-1501-A	-	55	39	2.5	24	24
		EL,FL		TPMK-15-4					28
		AN							
	20	AL,BL	TMK-2001-A	-	66		4.5	30	30
		EL,FL,GL,HL							
	25	AL,BL	TMK-2501-A	-	75	35	8	36	36
		EL,FL,GL,HL							
		AN,BN			TPMK-25-4		40		
	30	AL,BL	TMK-3001-A	-	90	39	7	42	42
		EL,FL,GL,HL							10
		AN,BN							
	35	AL,BL	TMK-3501-A	-	100		11.5	48	48
		EL,FL,GL,HL							
		AN,BN			TPMK-35-7				
	45	AL,BL	TMK-4501-A	-	120	49	16.5	60	60
		EL,FL,GL,HL							70
		AN,BN		TPMK-45-10					

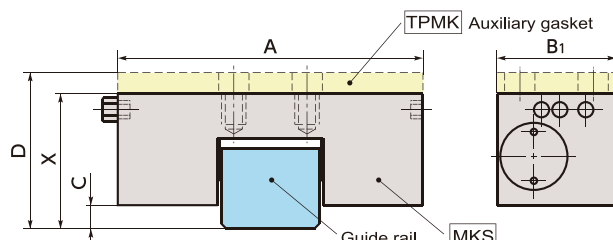


### ● Selection Table

•NB

Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SGL	15	E,E..D,TE,TE..D	TMK-1501-A	-	55	39	2.5	24	24
		F,F..D,TF,TF..D		-					
		HTE,HYE,HTEX		-					
		HTF,HYF		TPMK-15-4					
	20	E,TE	TMK-2001-A	-	66			28	28
		F,TF		-					
		HTE,HYE,HTEX		-					
		HTF,HYF		TPMK-20-2					
	25	E,TE	TMK-2501-A	-	75	35		33	33
		F,TF		-					
		HTE,HYE,HTEX		-					
		HTF,HYF		TPHK-25-3					
	30	E,TE,HTE,HYE,HTEX	TMK-3001-A	-	90	39		40	42
		F,TF		-					
		HTF,HYF		-					
				TPMK-30-5					
	35	E,TE,HTE,HTEX	TMK-3501-A	-	100		7.5	44	48
		F,TF		-					
		HTF,HYF		-					
				TPMK-35-11					
	45	HTE,HYE,HTEX	TMK-4501-A	-	120	49	12.5	56	60
		HTF,HYF		-					
				TPMK-45-14					70

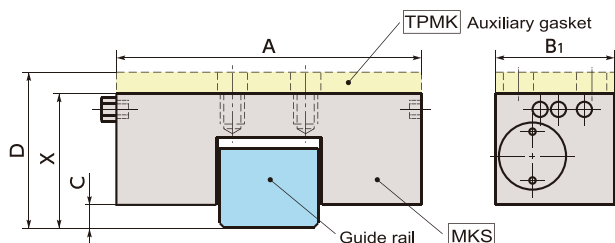


● Selection Table

• MISUMI

Unit: mm

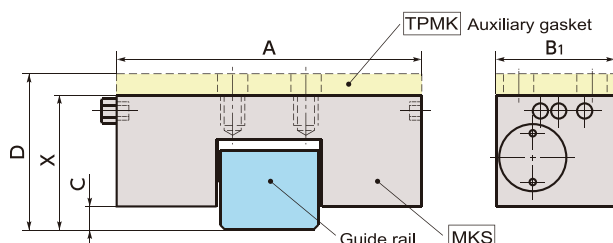
Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
Standard linear guide rail	15	SVR24,SVRL24,SVRJ24,SVRLJ24,SSVR24,SSVRL24	TMK-1501-A		55				2424
		SVRD24,SVRK24,SVRDL24,SVRKL24							
		SVRN24,SVRNL24,SSVRN24,SSVRNL24							
		SVRZ24,SVRLZ24,SSVRZ24,SSVRLZ24							
		SVW24,SVWL24,SVWT24,SVWTL24,SSVW24,SSVWL24							
		SVWD24,SVWK24,SVWDL24,SVWKL24							
		SVWZ24,SVWLZ24,SVWTZ24,SVWTLZ24							
		SXR24,SXRL24,SXRJ24,SXRLJ24,SSXR24,SSXRL24							
		SXRD24,SXRK24,SXRDL24,SXRKL24							
		SXRN24,SXRNL24,SSXRN24,SSXRNL24							
		SXRZ24,SSXRZ24,SSXRLZ24							
		SXW24,SXWL24,SXWT24,SXWTL24,SSXW24,SSXWL24							
		SXWD24,SXWK24,SXWDL24,SXWKL24							
		SXWZ24,SXWLZ24,SXWTZ24,SXWTLZ24							
	20	SVR28,SVRL28,SVRJ28,SVRLJ28,SSVR28,SSVRL28	TMK-2001-A		66	39	2.5		2828
		SVRD28,SVRK28,SVRDL28,SVRKL28							
		SVRN28,SVRNL28,SSVRN28,SSVRNL28							
		SVRZ28,SVRLZ28,SSVRZ28,SSVRLZ28							
		SVW28,SVWL28,SVWT28,SVWTL28,SSVW28,SSVWL28							
		SVWD28,SVWK28,SVWDL28,SVWKL28							
		SVWZ28,SVWLZ28,SVWTZ28,SVWTLZ28							
		SXR28,SXRL28,SXRJ28,SXRLJ28,SSXR28,SSXRL28							
		SXRD28,SXRK28,SXRDL28,SXRKL28							
		SXRN28,SXRNL28,SSXRN28,SSXRNL28							
		SXRZ28,SSXRZ28,SSXRLZ28							
		SXW28,SXWL28,SXWT28,SXWTL28,SSXW28,SSXWL28							
		SXWD28,SXWK28,SXWDL28,SXWKL28							
		SXWZ28,SXWLZ28,SXWTZ28,SXWTLZ28							
		SERZ30,SERLZ30							
		SEWZ30,SEWLZ30,SEWTZ30,SEWTLZ30							
		SHRZ30,SHRLZ30,SSHRZ30,SSHRLZ30							
		SHWZ30,SHWLZ30,SHWTZ30,SHWTLZ30							





Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
Standard linear guide rail	25	SHRZ36,SHRLZ36	TMK-2501-A	-	75	35	8	33	33
		SVR33,SVRL33,SVRJ33,SVRLJ33,SSVR33,SSVRL33							
		SVRD33,SVRK33,SVRDL33,SVRKL33							
		SVRN33,SVRNL33,SSVRN33,SSVRNL33							
		SVRZ33,SVRLZ33,SSVRZ33,SSVRLZ33							
		SVW33,SVWL33,SVWT33,SVWTL33,SSVW33,SSVWL33							
		SVWD33,SVWK33,SVWDL33,SVWKL33							
		SVWZ33,SVWLZ33,SVWTZ33,SVWTLZ33							
		SXR33,SXRL33,SXRJ33,SXRLJ33,SSXR33,SSXRL33							
		SXRD33,SXRK33,SXRD33,SXRKL33							
		SXRN33,SXRNL33,SSXRN33,SSXRNL33							
		SXRZ33,SSXRZ33,SSXRLZ33							
		SXW33,SXWL33,SXWT33,SXWTL33,SSXW33,SSXWL33							
		SXWD33,SXWK33,SXWDL33,SXWKL33							
		SXWZ33,SXWLZ33,SXWTZ33,SXWTLZ33							
		SERZ36,SERLZ36					8	36	36
		SEWZ36,SEWLZ36,SEWTZ36,SEWTLZ36							
		SHWZ36,SHWLZ36,SHWTZ36,SHWTLZ36							
		SSHRZ40,SSHRLZ40							
		30					SERZ42,SERLZ42	TMK-3001-A	-
	SEWZ42,SEWLZ42,SEWTZ42,SEWTLZ42								
	SHRZ42,SHRLZ42								
	SHWZ42,SHWLZ42,SHWTZ42,SHWTLZ42								
	SVRZ42,SVRLZ42								
	SVWZ42,SVWLZ42,SVWTZ42,SVWTLZ42								
	SXRZ42,SXRLZ42								
	SXWZ42,SXWLZ42,SXWTZ42,SXWTLZ42								

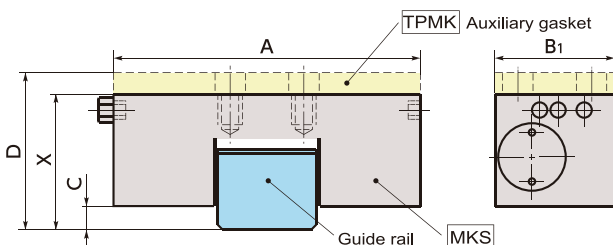


● Selection Table

• HIWIN

Unit:mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
EG	15	EGH..SA,EGH..CA	TMK-1501-A	-	55	39	2.5	24	24
		EGW..SC,EGW..CC							
	20	EGH..SA,EGH..CA	TMK-2001-A	-				28	28
		EGW..SC,EGW..CC							
	25	EGH..SA,EGH..CA	TMK-2501-A	TPMK-25-2	75	35	3	31	33
		EGW..SC,EGW..CC							
	30	EGH..SA,EGH..CA	TMK-3001-A	TPMK-30-2	90	39	5	40	42
		EGW..SC,EGW..CC							
HG	15	HGW..CA,HGW..CB,HGW..CC	TMK-1501-A	-	55	39	2.5	24	24
		HGH..CA		TPMK-15-4					28
	20	HGH..CA,HGH..HA	TMK-2001-A	-	66		4.5	30	30
		HGW..CA,HGW..HA,HGW..CB,HGW..HB							
		HGW..CC,HGW..HC							
	25	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMK-2501-A	TPMK-25-4	75	35	8	36	36
		HGH..CA,HGH..HA							40
	30	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMK-3001-A	-	90	39	7	42	42
		HGH..CA,HGH..HA		TPMK-30-3					45
	35	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMK-3501-A	-	100		11.5	48	48
		HGH..CA,HGH..HA		TPMK-35-7					55
	45	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMK-4501-A	TPMK-45-2	120	49	14.5	58	60
		HGH..CA,HGH..HA		TPMK-45-12					70
LG	15	LGW..CC	TMK-1501-A	-	55	39	2.5	24	24
		LGH..CA		TPMK-15-4					28
	20	LGH..CA,LGH..HA	TMK-2001-A	-	66		4.5	30	30
		LGW..CC,LGW..HC							
	25	LGH..CA,LGH..HA	TMK-2501-A	TPMK-25-4	75	35	8	36	36
		LGH..CA,LGH..HA							40
	30	LGW..CC,LGW..HC	TMK-3001-A	-	90	39	7	42	42
		LGH..CA,LGH..HA		TPMK-30-3					45
	35	LGW..CC,LGW..HC	TMK-3501-A	TPMK-35-4	100		7.5	44	48
		LGH..CA,LGH..HA		TPMK-35-11					55
	45	LGW..CC,LGW..HC	TMK-4501-A	TPMK-45-8	120	49	8.5	52	60
		LGH..CA,LGH..HA		TPMK-45-18					70



Unit: mm

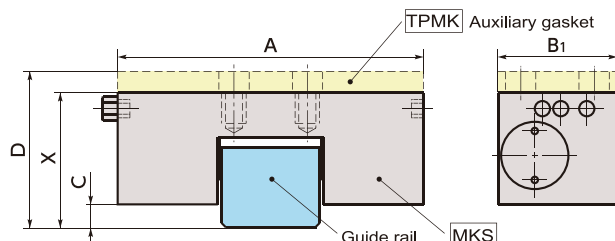
Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
KUE	15	KWE	TMK-1501-A	-	55	39	2.5	24	24
		KWE..H		TPMK-15-4					28
	20	KWE	TMK-2001-A	-	66	39	4.5	30	30
		KWE..H							
	25	KWE	TMK-2501-A	TPMK-25-4	75	35	4	32	36
		KWE..H		TPMK-25-8					40
	30	KWE	TMK-3001-A	TPMK-30-2	90	39	5	40	42
		KWE..H		TPMK-30-5					45
	35	KWE	TMK-3501-A	TPMK-35-8	100	39	3.5	40	48
		KWE..H		TPMK-35-15					55
KUSE	20	KWSE,KWSE..L	TMK-2001-A	-	66	39	4.5	30	30
		KWSE..H,KWSE..HL							36
	25	KWSE,KWSE..L	TMK-2501-A	TPMK-25-4	75	35	8	36	40
		KWSE..H,KWSE..HL							42
	30	KWSE,KWSE..L	TMK-3001-A	-	90	39	7	42	45
		KWSE..H,KWSE..HL		TPMK-30-3					48
	35	KWSE,KWSE..L	TMK-3501-A	-	100	39	11.5	48	55
		KWSE..H,KWSE..HL		TPMK-35-7					60
	45	KWSE,KWSE..L	TMK-4501-A	-	120	49	16.5	60	70
		KWSE..H,KWSE..HL		TPMK-45-10					70

### ● Selection Table

• PMI

Unit: mm

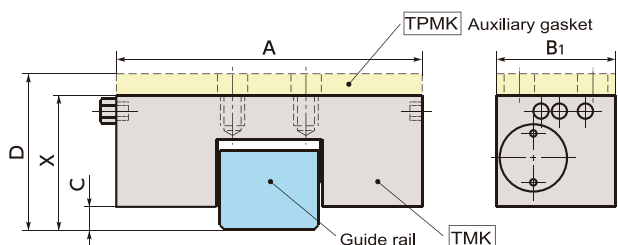
Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
MSA	15	A,E	TMK-1501-A	-	55	39	2.5	24	24
		S		TPMK-15-4					28
	20	A,LA,E,LE	TMK-2001-A	-	66	39	4.5	30	30
		S,LS							36
	25	A,LA,E,LE	TMK-2501-A	TPMK-25-4	75	35	8	36	40
		S,LS							42
	30	A,LA,E,LE	TMK-3001-A	-	90	39	7	42	45
		S,LS		TPMK-30-3					48
	35	A,LA,E,LE	TMK-3501-A	TPMK-35-3	100	39	8.5	45	55
		S,LS		TPMK-35-10					60
	45	A,LA,E,LE	TMK-4501-A	-	120	49	16.5	60	70
		S,LS		TPMK-45-10					70





Unit: mm

Types of Guide Rails	Guide rail dimensions	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SME	15	EA,LEA	TMK-1501-A	-	55	39	2.5	24	24
		EB,LEB							
		SB,LSB							
		SA,SEA		TPMK-15-4					
	20	EB,LEB	TMK-2001-A	-	66			28	28
		SB,LSB							
		SA,SEA		TPMK-20-2					
	25	EB,LEB	TMK-2501-A	TPMK-25-2	75	35	3	31	33
		SB,LSB							
		EA,LEA		TPMK-25-5					36
		SV,LSV							
		SA,LSA		TPMK-25-9					40
	30	EA,LEA	TMK-3001-A	-	90	39	7	42	42
		SB,LSB							
		SA,SEA		TPMK-30-3					45
	35	EA,LEA	TMK-3501-A	TPMK-35-6	100		5.5	42	48
SB,LSB									
SA,SEA		TPMK-35-13		55					
45	EA,LEA	TMK-4501-A	TPMK-45-6	120	49	10.5	54	60	
	SB,LSB								
	SA,SEA		TPMK-45-16					70	



- Used for securing the slide table, positioning, and preventing vibration.

- Normally Closed (NC) type.

When air is supplied: releases clamping.

When air is exhausted: clamps the linear guide rail with the force of the spring.

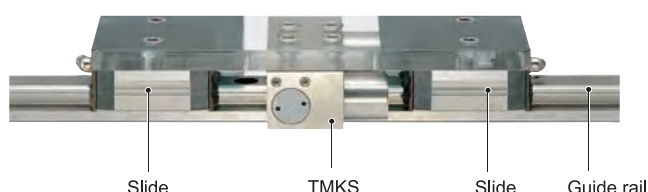
- Minimum operating pressure of 0.3MPa; products with 0.4MPa have been standardized.

- Compact design, can also be used on square shafts.

For the hardness and dimensional tolerance of square shafts, please refer to the following pages.

- For various test data, please refer to the following pages.

- Can be easily assembled into existing systems without design changes such as extending the length of the guide rail or changing the dimensions of the slide table.



### Material, surface treatment

	TMK
Subject	Equivalent to 4Cr15
Air filter	SUS304
Contact surface	Equivalent to 102Cr17Mo No surface treatment
Adjusting bolt	Equivalent to 102Cr17Mo No surface treatment
Front cover	SUS303

### Plumbing

Nominal size of the guide rail	Nominal Thread Diameter	Air Consumption ( $\square$ /Cycle ( ANR ) )
#15	M5	0.011
#20	M5	0.019
#25	M5	0.021
#30	M5	0.031
#35	M5	0.031
#45	M5	0.041

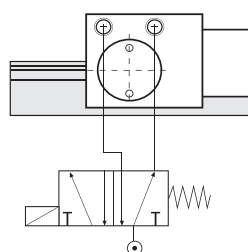
Note: Value at a pressure of 0.6 MPa.

### Boost Connection

A 'pressure-boosted connection' refers to a connection method that increases the holding force by adding air pressure on top of the spring's holding force, thereby enhancing the overall holding force.

### Boosted Connection Method

- ① Remove the air filter,
- ② Install the pipe fittings, hoses, and solenoid valve,
- ③ Start supplying air,
- ④ Activate the solenoid valve and check the on/off status of the Kourangba.



### Specification

	TMKS-03	TMKS-04	TMKS
Control direction	Air pressure, normally closed		
Opening pressure	0.3MPa	0.4MPa	0.55MPa
Maximum Operating Pressure	0.6MPa		
Response Time	Up to 0.6s		
Operating Temperature	0°C~70°C		
Clamping Life[Note]	5,000,000 times		
Nominal size of the applicable guide rail	#15~#45		

Note: The reference values are not guaranteed.

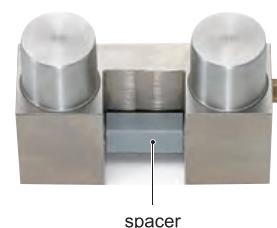
### Install

Nominal Thread Diameter <sup>[Note]</sup>	Fastening Torque ( N·m )
M4	2.8
M5	5.5
M6	9.5
M8	23
M10	46

Note: Please use bolts with a strength grade of 8.8 or higher.

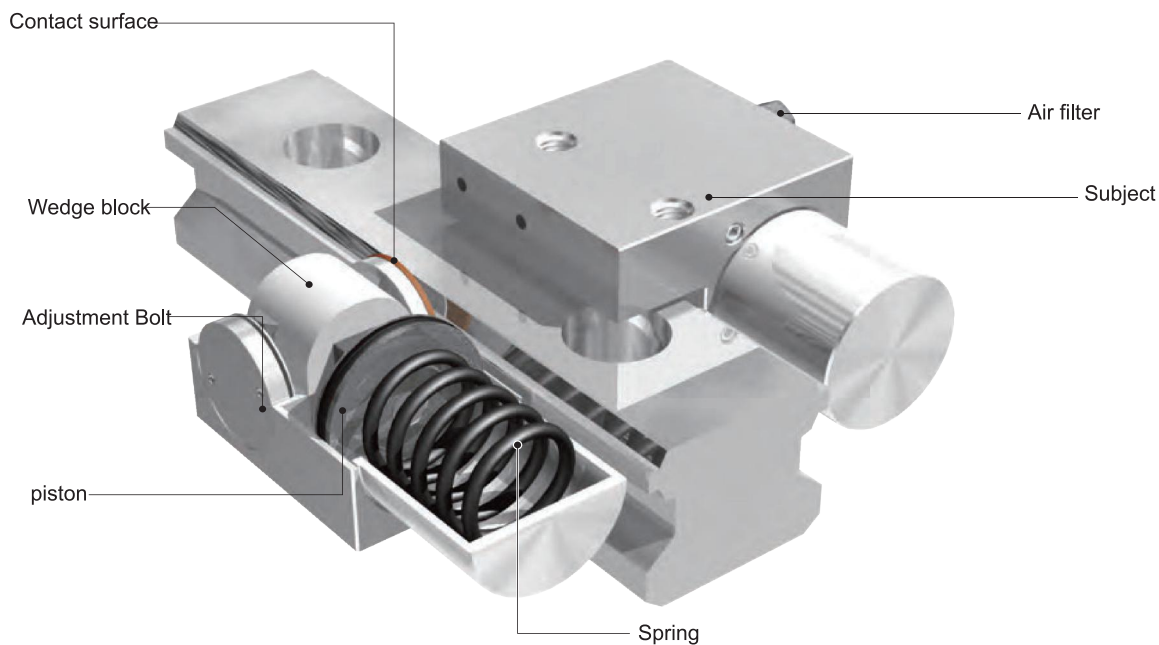
### ⚠ Precautions for Use

TMKS has a spacer block placed between the contact surfaces when it leaves the factory. Do not remove this block except during installation. If left without the block for an extended period, TMKS may fail to operate.



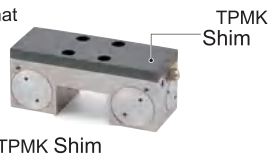


## ● Construct



## ● Related Products

To align the height of the TMKS with that of the linear guide slider, an auxiliary shim TPMK can be used.



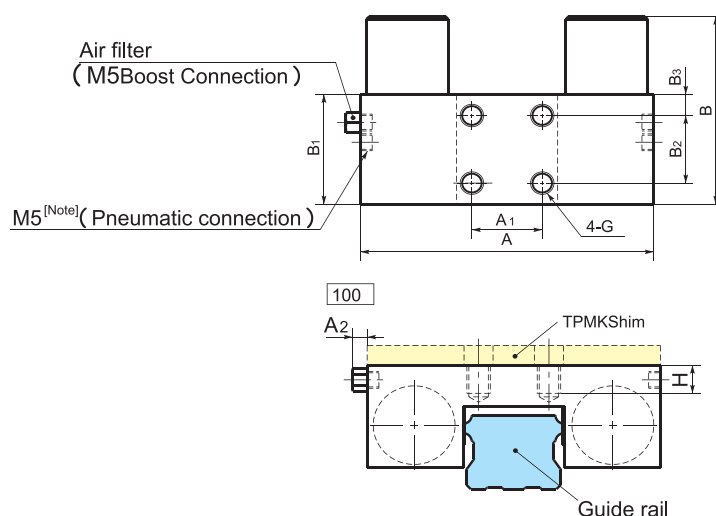
Available in pneumatic and normally open TMK types



Model designation

TMKS-3501-A

Model



Size, performance

TMKS-03 Opening Pressure: 0.3 MPa

unit: mm

Model	Endurance (N) [Note] Standard Connection / Boosted Connection	A	A1	A2	B	B1	B2	B3	G	H	Quality (kg)
TMKS-1501-A-03	250 / 550	55	15	6	58	39	15	15.5	M4	4.5	0.26
TMKS-2001-A-03	350 / 810	66	20	6	61	39	20	5	M5	5.5	0.36
TMKS-2501-A-03	350 / 880	75	20	5	56	35	20	5	M6	8	0.42
TMKS-3001-A-03	750 / 1320	90	22	5	68	39	22	8.5	M8	10	0.68
TMKS-3501-A-03	850 / 1800	100	24	5	67	39	24	7.5	M8	10	0.8
TMKS-4501-A-03	1050 / 1900	120	26	5	82	49	26	11.5	M10	15	1.49

Note: The holding force of the pressurized connection is the value at a pressure of 0.3 MPa.

TMKS-04 Opening Pressure: 0.4MPa

unit: mm

Model	Endurance (N) [Note] Standard Connection / Boosted Connection	A	A1	A2	B	B1	B2	B3	G	H	Quality (kg)
TMKS-1501-A-03	300 / 650	55	15	6	58	39	15	15.5	M4	4.5	0.26
TMKS-2001-A-03	500 / 1150	66	20	6	61	39	20	5	M5	5.5	0.36
TMKS-2501-A-03	650 / 1300	75	20	5	56	35	20	5	M6	8	0.42
TMKS-3001-A-03	850 / 1700	90	22	5	68	39	22	8.5	M8	10	0.68
TMKS-3501-A-03	1100 / 1900	100	24	5	67	39	24	7.5	M8	10	0.8
TMKS-4501-A-03	1350 / 2000	120	26	5	82	49	26	11.5	M10	15	1.49

Note: The holding force of the pressurized connection is the value at a pressure of 0.4 MPa.

TMKS Opening Pressure: 0.55MPa

unit: mm

Model	Endurance (N) [Note] Standard Connection / Boosted Connection	A	A1	A2	B	B1	B2	B3	G	H	Quality (kg)
TMKS.1501-A	400/1050	55	15	6	58	39	15	15.5	M4	4.5	0.26
TMKS-2001-A	600/1300	66	20	6	61	39	20	5	M5	5.5	0.36
TMKS-2501-A	750/1400	75	20	5	56	35	20	5	M6	8	0.42
TMKS-3001-A	1050/2600	90	22	5	68	39	22	8.5	M8	10	0.68
TMKS-3501-A	1250/2200	100	24	5	67	39	24	7.5	M8	10	0.8
TMKS-4501-A	1450/3300	120	26	5	82	49	26	11.5	M10	15	1.49

Note: The retention force of the pressurized connection is the value at a pressure of 0.6 MPa.

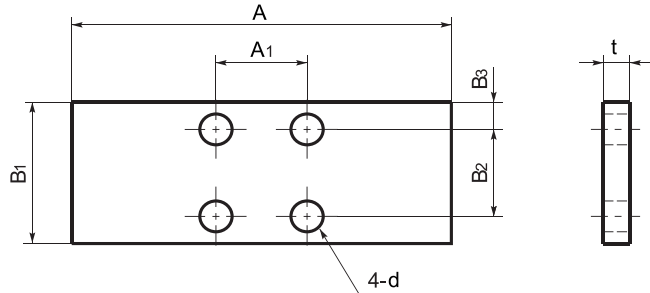
Model designation

TMKS-3501-A

Model

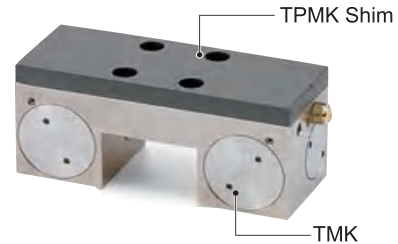


## ● Size



Material Surface Treatment

TPMK	
Subject	Equivalent to S45C, black oxide coating treatment



- Auxiliary shims used to align the height of the TMK/TMKS with the height of the linear guide carriage.
- Depending on the combination of TMK/TMKS with the linear guide, auxiliary shims may sometimes be required. Please refer to the selection table.

Size, performance

unit:mm

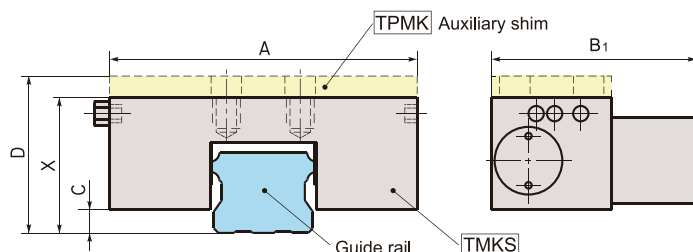
Model	A	A1	B1	B2	B3	t	d	Quality (kg)
TPMK-15-4	55	15	39	15	15.5	4	4.5	0.065
TPMK-20-2	66	20	39	20	5	2	5.5	0.038
TPMK-20-4	66	20	39	20	5	4	5.5	0.077
TPMK-25-2	75	20	35	20	5	2	6.5	0.038
TPMK-25-4	75	20	35	20	5	4	6.5	0.078
TPMK-25-5	75	20	35	20	5	5	6.5	0.098
TPMK-25-6	75	20	35	20	5	6	6.5	0.116
TPMK-25-8	75	20	35	20	5	8	6.5	0.156
TPMK-25-9	75	20	35	20	5	9	6.5	0.176
TPMK-30-2	90	22	39	22	8.5	2	8.5	0.051
TPMK-30-3	90	22	39	22	8.5	3	8.5	0.076
TPMK-30-5	90	22	39	22	8.5	5	8.5	0.128
TPMK-35-3	100	24	39	24	7.5	3	8.5	0.085
TPMK-35-4	100	24	39	24	7.5	4	8.5	0.114
TPMK-35-7	100	24	39	24	7.5	7	8.5	0.2
TPMK-35-8	100	24	39	24	7.5	8	8.5	0.226
TPMK-35-10	100	24	39	24	7.5	10	8.5	0.281
TPMK-35-11	100	24	39	24	7.5	11	8.5	0.315
TPMK-35-15	100	24	39	24	7.5	15	8.5	0.43
TPMK-45-2	120	26	49	26	11.5	2	10.5	0.087
TPMK-45-4	120	26	49	26	11.5	4	10.5	0.15
TPMK-45-6	120	26	49	26	11.5	6	10.5	0.26
TPMK-45-8	120	26	49	26	11.5	8	10.5	0.344
TPMK-45-10	120	26	49	26	11.5	10	10.5	0.411
TPMK-45-12	120	26	49	26	11.5	12	10.5	0.51
TPMK-45-16	120	26	49	26	11.5	16	10.5	0.691
TPMK-45-18	120	26	49	26	11.5	18	10.5	0.777

### ● Selection Table

•THK

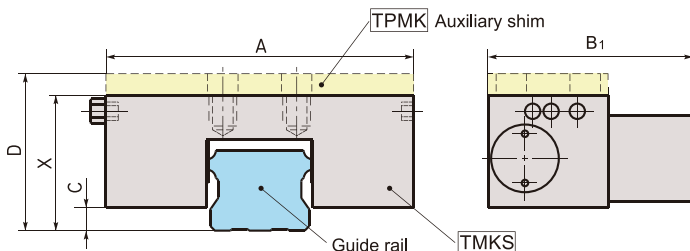
unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SHS	15	C,LC	TMKS-1501-A	-	55	58	2.5	24	24
		V,LV		TPMK-15-4					28
		R							
	20	C,LC	TMKS-2001-A	-	66	61	4.5	30	30
		V,LV							
	25	C,LC	TMKS-2501-A	TPMK-25-2	75	56	6	34	36
		V,LV		TPMK-25-6					40
		R,LR							
	30	C,LC	TMKS-3001-A	-	90	68	7	42	42
		V,LV		TPMK-30-3					45
		R,LR							
	35	C,LC	TMKS-3501-A	TPMK-35-4	100	67	7.5	44	48
		V,LV		TPMK-35-11					55
		R,LR							
	45	C,LC	TMKS-4501-A	TPMK-45-6	120		10.5	54	60
		V,LV		TPMK-45-16					
		R,LR							
15	A,B	TMKS-1501-A	-		58	2.5	24	24	
	R		TPMK-15-4					28	
20	A,LA,B,LB	TMKS-2001-A	-	66	61	4.5	30	30	
	CA,HA,CB,HB								
	R,LR								
25	A,LA,B,LB	TMKS-2501-A	TPMK-25-4	75	56	8	36	36	
	CA,HA,CB,HB							40	
	R,LR								
30	A,LA,B,LB	TMKS-3001-A	-	90	68	7	42	42	
	CA,HA,CB,HB		TPMK-30-3					45	
	R,LR								
35	A,LA,B,LB	TMKS-3501-A	TPMK-35-3	100	67	8.5	45	48	
	CA,HA							TPMK-35-10	55
	CB,HB								
	R,LR								
45	A,LA,B,LB	TMKS-4501-A	-	120	82	16.5	60	60	
	CA,HA,CB,HB		TPMK-45-10					70	
	R,LR								



unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SSR	15	XTBY	TMKS-1501-A	-	55	58	2.5	24	24
		XWY,XVY							
	20	XTB	TMKS-2001-A		66	61		28	28
		XW,XV							
	25	XTBY	TMKS-2501-A		75	56	5	33	33
		XWY,XVY							
30	XW	TMKS-3001-A	90	68	7	42	42		
		35						TMKS-3501-A	TPMK-35-3
SR	15	TB,SB	TMKS-1501-A	-	55	58	2.5	24	24
		W,V							
	20	TB,SB	TMKS-2001-A		66	61		28	28
		W,V							
	25	TB,SB	TMKS-2501-A		75	56	5	33	33
		W,V							
	30	TB,SB	TMKS-3001-A	90	68	7	42	42	
		W,V							
	35	TB,SB	TMKS-3501-A	TPMK-35-3	100	67	11.5	48	48
		W,V							
45	TB	TMKS-4501-A	-	120	82	16.5	60	60	
	W								
SVR	30	C,LC,LR,R	TMKS-3001-A		90	68	3	38	38
	35	CH,LCH	TMKS-3501-A	TPMK-35-3	100	67	4.5	41	44
				TPMK-35-7					48
		LRH,RH		TPMK-35-14					55
	45	C,LC,LR,R	TMKS-4501-A		120	82	8.5	52	52
		CH,LCH		TPMK-45-8					60
LRH,RH		TPMK-45-18		70					

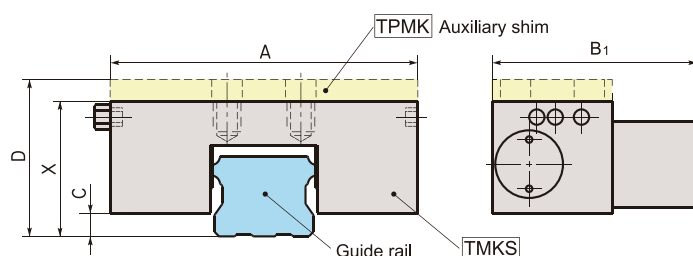


### ● Selection Table

•THK

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SVS	30	C,LC,LR,R	TMKS-3001-A		90	68	3	38	38
	35		TMKS-3501-A	TPMK-35-3	100	67	4.5	41	44
		CH,LCH		TPMK-35-7					48
		LRH,RH		TPMK-35-14					55
	45	C,LC,LR,R	TMKS-4501-A		120	82	8.5	52	52
		CH,LCH		TPMK-45-8					60
		LRH,RH		TPMK-45-18					70
	55	C,LC,LR,R	TMKS-5501-A		128		14.5	63	63
		CH,LCH		TPMK-55-7					70
		LRH,RH		TPMK-55-17					80
NR/NRS	30	A,LA,B,LB	TMKS-3001-A		90	68	3	38	38
		R,LR							
	35	A,LA,B,LB	TMKS-3501-A		100	67	7.5	44	44
		R,LR							
45	A,LA,B,LB	TMKS-4501-A	120	82	8.5	52	52		
	R,LR								
	30	C,LC	TMKS-3001-A		90	68	3	38	38
		R,LR							
35		C,LC	TMKS-3501-A		100	67	7.5	44	44
		R,LR							
	RH,LRH	TPMK-35-11		55					
SNR/SNS	45	C,LC	TMKS-4501-A		120	8.5	52	52	
		R,LR						60	
		CH,LCH		TPMK-45-8					
		RH,LRH		TPMK-45-18				70	



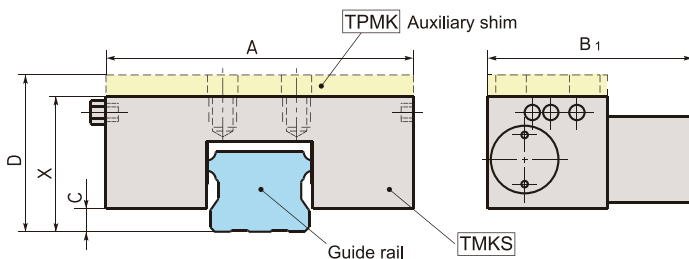


● Selection Table

•IKO

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
ME	15	MEC,ME,MEG,METC,MET,METG	TMKS-1501-A		55	58	2.5	24	24
		MESC,MES,MESG							
	20	MEC,ME,MEG,METC,MET,METG	TMKS-2001-A		66	61		28	28
		MESC,MES,MESG							
	25	MEC,ME,MEG,METC,MET,METG	TMKS-2501-A		75	56	5	33	33
		MESC,MES,MESG							
	30	MEC,ME,MEG,METC,MET,METG	TMKS-3001-A		90	68	7	42	45
		MESC,MES,MESG							
	35	MEC,ME,METC,MET	TMKS-3501-A		100	67	11.5	48	48
		MESC,MES							
45	ME,MET	TMKS-4501-A	120	82	16.5	60	60		
	MES								
LWE	15	LWE..Q,LWET..Q	TMKS-1501-A		55	58	2.5	24	24
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	20	LWE..Q,LWET..Q	TMKS-2001-A		66	61		28	28
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	25	LWE..Q,LWET..Q	TMKS-2501-A		75	56	5	33	33
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	30	LWE..Q,LWET..Q	TMKS-3001-A		90	68	7	42	42
		LWEC,LWE,LWEG,LWETC,LWET,LWETG							
		LWES..Q							
		LWESC,LWES,LWESG							
	35	LWE..Q,LWET..Q	TMKS-3501-A		100	67	11.5	48	48
		LWEC,LWE,LWETC,LWET							
		LWES..Q							
		LWESC,LWES							
	45	LWE,LWET	TMKS-4501-A		120	82	16.5	60	60
		LWES							

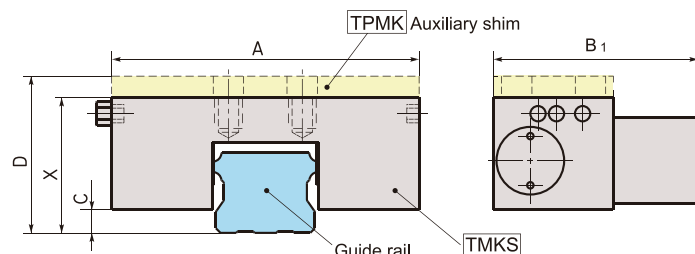


### ● Selection Table

•IKO

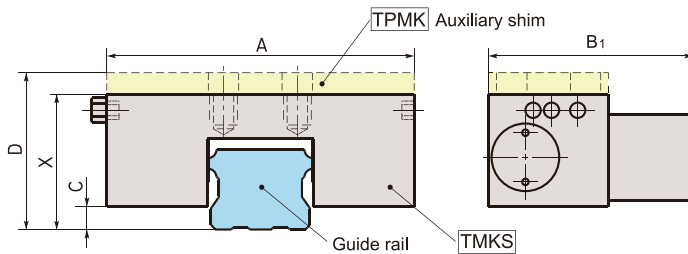
unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions					
					A	B <sub>1</sub>	C	X	D	
MH	15	MH,MHT	TMKS-1501-A	-	55	58	2.5	2	24	
		MHS		TPMK-15-4					28	
		MHD								
	20	MH,MHG,MHT,MHTG	TMKS-2001-A	-	6	61	4.5	30	30	
		MHS,MHSG								
	25	MH,MHG,MHT,MHTG	TMKS-2501-A	-	75	56	8	36	36	
		MHS,MHSG							40	
		MHD,MHDG								
	30	MH,MHG,MHT,MHTG	TMKS-3001-A	-	90	68	7	42	42	
		MHS,MHSG		45						
		MHD,MHDG								
	35	MH,MHG,MHT,MHTG	TMKS-3501-A	-	100	67	11.5	48	48	
		MHD,MHDG		TPMK-35-7						
45	MH,MHG,MHT,MHTG	TMKS-4501-A	TPMK-45-2	120	82	14.5	58	60		
	MHD,MHDG		TPMK-45-12					70		
LWH	15	LWH,LWHT	TMKS-1501-A	-	55	58	2.5	24	24	
		LWHS		TPMK-15-4					28	
		LWHD,LWHY								
	20	LWH,LWHG,LWHT,LWHTG	TMKS-2001-A	-	66	61	4.5	30	30	
		LWHS,LWHSG								
		LWHY								
	25	LWH,LWHG,LWHT,LWHTG	TMKS-2501-A	-	75	56	8	36	36	
		LWHS,LWHSG							TPMK-25-4	40
		LWHD,LWHDG								
		LWHY								
	30	LWH,LWHG,LWHT,LWHTG	TMKS-3001-A	-	90	68	7	42	42	
		LWHS,LWHSG		TPMK-30-3					45	
		LWHD,LWHDG								
		LWHY								
	35	LWH,LWHG,LWHT,LWHTG	TMKS-3501-A	-	100	67	11.5	48	48	
		LWHD,LWHDG		TPMK-35-7					55	
		LWHY								
45	LWH,LWHG,LWHT,LWHTG	TMKS-4501-A	TPMK-45-2	120	82	14.5	58	60		
	LWHD,LWHDG		TPMK-45-12					70		
	LWHY									



unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
MX	25	MXC,MX,MXG,MXL	TMKS-2501-A	-	75	56	8	36	36
		MXDC,MXD,MXDG,MXDL							
		MXSC,MXS,MXSG,MXSL							
	30	MXC,MX,MXG,MXL	TMKS-3001-A	-	90	68	7	42	45
		MXDC,MXD,MXDG,MXDL							
		MXSC,MXS,MXSG,MXSL							
	35	MXC,MX,MXG,MXL	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	48
		MXDC,MXD,MXDG,MXDL							
	45	MXC,MX,MXG,MXL	TMKS-4501-A	TPMK-45-10	120	82	16.5	60	60
		MXDC,MXD,MXDG,MXDL							70
LRX	30	LRXC,LRX,LRXG	TMKS-3001-A	-	90	68	7	42	42
		LRXSC,LRXS,LRXSG							
		LRXDC,LRXD,LRXDG					10	45	45
	35	LRXC,LRX,LRXG	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	48
		LRXDC,LRXD,LRXDG							55
	45	LRXC,LRX,LRXG	TMKS-4501-A	TPMK-45-10	120	82	16.5	60	60
		LRXDC,LRXD,LRXDG							70

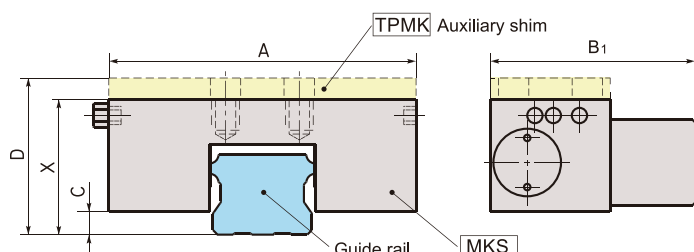


### ● Selection Table

•NSK

unit: mm

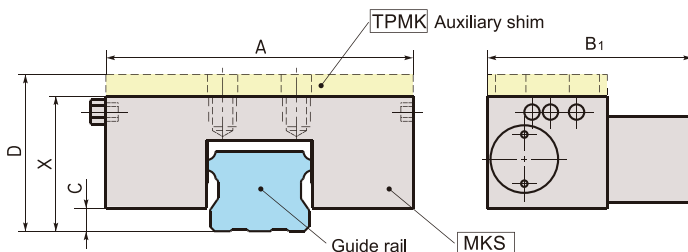
Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
NH	15	EM,GM	TMKS-1501-A	-	55	58	2.5	24	24
		AN,BN		TPMK-15-4					28
	20	EM,GM	TMKS-2001-A	-	66	61	4.5	30	30
		AL,BL							36
	25	EM,GM	TMKS-2501-A	TPMK-25-4	75	56	8	36	40
		AN,BN							42
		AL,BL							45
	30	EM,GM	TMKS-3001-A	TPMK-30-3	90	68	7	42	48
		AN,BN							55
		AL,BL							60
	35	EM,GM	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	70
		AN,BN							75
		AL,BL							80
	45	EM,GM	TMKS-4501-A	TPMK-45-10	120	82	16.5	60	85
		AN,BN							90
NS	15	CL,AL	TMKS-1501-A	-	55	58	2.5	24	24
		JM,EM							28
	20	CL,AL	TMKS-2001-A	-	66	61	4.5	30	30
		JM,EM							36
	25	CL,AL	TMKS-2501-A	TPMK-25-4	75	56	8	36	40
LH	15	EM,GM,EL,GL,FL,HL	TMKS-1501-A	-	55	58	2.5	24	24
		AN,BN		TPMK-15-4					28
	20	EM,GM,EL,GL,FL,HL	TMKS-2001-A	-	66	61	4.5	30	30
		AN,BN							36
	25	EM,GM,EL,GL,FL,HL	TMKS-2501-A	TPMK-25-4	75	56	8	36	40
		AN,BN							42
		AL,BL							45
	30	EM,GM,EL,GL,FL,HL	TMKS-3001-A	TPMK-30-3	90	68	7	42	48
		AN,BN							55
		AL,BL							60
	35	EM,GM,EL,GL,FL,HL	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	70
		AN,BN							75
		AL,BL							80
	45	EM,GM,EL,GL,FL,HL	TMKS-4501-A	TPMK-45-10	120	82	16.5	60	85
		AN,BN							90





unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
SH	15	EM,GM	TMKS-1501-A	-	55	58	2.5	24	24
		AN,BN		TPMK-15-4					28
	20	EM,GM	TMKS-2001-A	-	66	61	4.5	30	30
		AL,BL							36
	25	EM,GM	TMKS-2501-A	-	75	56	8	36	40
		AN,BN							40
		AL,BL							40
	30	EM,GM	TMKS-3001-A	-	90	68	7	42	42
		AN,BN							45
		AL,BL							45
	35	EM,GM	TMKS-3501-A	-	100	67	11.5	48	48
		AN,BN							55
		AL,BL							55
LS	15	CL,AL	TMKS-1501-A	-	55	58	2.5	24	24
		KL,JM,EM							28
	20	CL,AL	TMKS-2001-A	-	66	61	5	33	33
		KL,JM,EM							33
	25	CL,AL	TMKS-2501-A	-	75	56	7	42	242
		KL,FL,EL							242
	30	CL,AL	TMKS-3001-A	-	90	8	7	42	242
		KL,FL,EL							242
	35	CL,AL	TMKS-3501-A	TPMK-35-4	100	67	7.5	44	48
		KL,FL,EL							48
SS	15	CL,AL	TMKS-1501-A	-	55	58	2.5	24	24
		KL,EM							28
	20	CL,AL	TMKS-2001-A	-	66	61	5	33	33
		KL,EM							33
	25	CL,AL	TMKS-2501-A	-	75	56	7	42	42
		KL,EM							42
	30	CL,AL	TMKS-3001-A	-	90	68	7	42	42
		KL,EM							42
	35	CL,AL	TMKS-3501-A	TPMK-35-4	100	67	7.5	44	48
		KL,EM							48

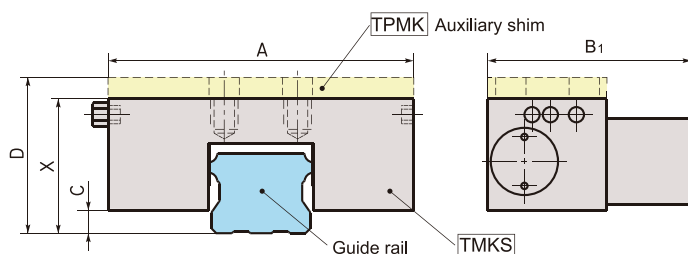


### ● Selection Table

•NSK

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions				
					A	B <sub>1</sub>	C	X	D
LA	25	EL,FL,GL,HL	TMKS-2501-A	-	75	56	8	36	36
		AN,BN		TPMK-25-4					40
	30	EL,FL,GL,HL	TMKS-3001-A	-	90	68	7	42	42
		AN,BN					10	45	45
	35	AL,BL	TMKS-3501-A		100	67	11.5	48	48
		EL,FL,GL,HL							55
		AN,BN		TPMK-35-7					
	45	AL,BL	TMKS-4501-A	-	120	82	16.5	60	60
		EL,FL,GL,HL							70
		AN,BN		TPMK-45-10					
LY	15	AL	TMKS-1501-A	-	55	58	2.5	24	24
		EL,FL							28
		AN		TPMK-15-4					
	20	AL,BL	TMKS-2001-A	-	66	61	4.5	30	30
		EL,FL,GL,HL							
	25	AL,BL	TMKS-2501-A		75	56	8	36	36
		EL,FL,GL,HL							40
		AN,BN		TPMK-25-4					
	30	AL,BL	TMKS-3001-A	-	90	68	7	42	42
		EL,FL,GL,HL					10	45	45
		AN,BN							
	35	AL,BL	TMKS-3501-A		100	67	11.5	48	48
		EL,FL,GL,HL		55					
		AN,BN		TPMK-35-7					
	45	AL,BL	TMKS-4501-A	-	120	82	16.5	60	60
		EL,FL,GL,HL							70
		AN,BN		TPMK-45-10					

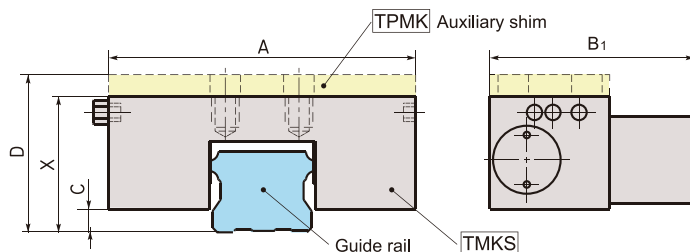


● Selection Table

•NB

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimensions					
					A	B <sub>1</sub>	C	X	D	
SGL	15	E,E..D,TE,TE..D	TMKS-1501-A	-	55	58	2.5	24	24	
		F,F..D,TF,TF..D								
		HTE,HYE,HTEX		TPMK-15-4						
		HTF,HYF								
	20	E,TE	TMKS-2001-A	-	66	61		28	28	28
		F,TF								
		HTE,HYE,HTEX		TPMK-20-2						
		HTF,HYF								
	25	E,TE	TMKS-2501-A	-	75	56	5		33	33
		F,TF								
		HTE,HYE,HTEX		TPHK-25-3						
		HTF,HYF								
	30	E,TE,HTE,HYE,HTEX	TMKS-3001-A	TPMK-30-2	90	68		40	40	42
		F,TF								
		HTF,HYF		TPMK-30-5						
	35	E,TE,HTE,HTEX	TMKS-3501-A	TPMK-35-4	100	67	7.5		44	48
		F,TF		TPMK-35-11						
		HTF,HYF								
	45	HTE,HYE,HTEX	TMKS-4501-A	TPMK-45-4	120	82	10		56	60
		HTF,HYF		TPMK-45-14						

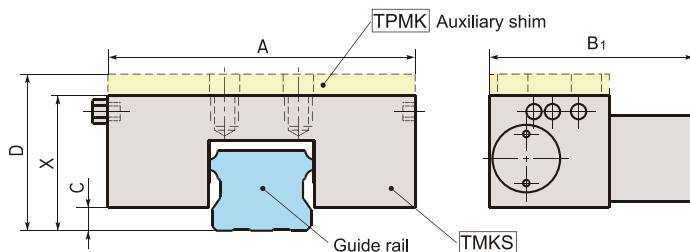


### ● Selection Table

● MISUMI

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension				
					A	B <sub>1</sub>	C	X	D
Standard linear guide rail	15	SVR24,SVRL24,SVRJ24,SVRLJ24,SSVR24,SSVRL24	TMKS-1501-A		55	58	2.5	24	24
		SVRD24,SVRK24,SVRDL24,SVRKL24							
		SVRN24,SVRNL24,SSVRN24,SSVRNL24							
		SVRZ24,SVRLZ24,SSVRZ24,SSVRLZ24							
		SVW24,SVWL24,SVWT24,SVWTL24,SSVW24,SSVWL24							
		SVWD24,SVWK24,SVWDL24,SVWKL24							
		SVWZ24,SVWLZ24,SVWTZ24,SVWTLZ24							
		SXR24,SXRL24,SXRJ24,SXRLJ24,SSXR24,SSXRL24							
		SXRD24,SXRK24,SXRD24,SXRKL24							
		SXRN24,SXRNL24,SSXRN24,SSXRNL24							
		SXRZ24,SSXRZ24,SSXRLZ24							
		SXW24,SXWL24,SXWT24,SXWTL24,SSXW24,SSXWL24							
		SXWD24,SXWK24,SXWDL24,SXWKL24							
		SXWZ24,SXWLZ24,SXWTZ24,SXWTLZ24							
	20	SVR28,SVRL28,SVRJ28,SVRLJ28,SSVR28,SSVRL28	TMKS-2001-A		66	61	2.5	28	28
		SVRD28,SVRK28,SVRDL28,SVRKL28							
		SVRN28,SVRNL28,SSVRN28,SSVRNL28							
		SVRZ28,SVRLZ28,SSVRZ28,SSVRLZ28							
		SVW28,SVWL28,SVWT28,SVWTL28,SSVW28,SSVWL28							
		SVWD28,SVWK28,SVWDL28,SVWKL28							
		SVWZ28,SVWLZ28,SVWTZ28,SVWTLZ28							
		SXR28,SXRL28,SXRJ28,SXRLJ28,SSXR28,SSXRL28							
		SXRD28,SXRK28,SXRD28,SXRKL28							
		SXRN28,SXRNL28,SSXRN28,SSXRNL28							
		SXRZ28,SSXRZ28,SSXRLZ28							
		SXW28,SXWL28,SXWT28,SXWTL28,SSXW28,SSXWL28							
		SXWD28,SXWK28,SXWDL28,SXWKL28							
		SXWZ28,SXWLZ28,SXWTZ28,SXWTLZ28							
		SERZ30,SERLZ30							
		SEWZ30,SEWLZ30,SEWTZ30,SEWTLZ30							
		SHRZ30,SHRLZ30,SSHRZ30,SSHRLZ30							
		SHWZ30,SHWLZ30,SHWTZ30,SHWTLZ30							

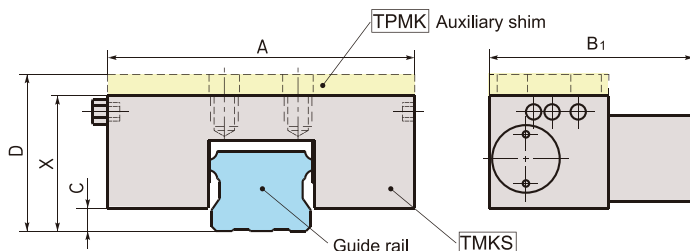


● Selection Table

• MISUMI

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension						
					A	B <sub>1</sub>	C	X	D		
标准线性导轨	25	SHRZ36,SHRLZ36	TMKS-2501-A	-	75	56	8	33	33		
		SVR33,SVRL33,SVRJ33,SVRLJ33,SSVR33,SSVRL33					5				
		SVRD33,SVRK33,SVRDL33,SVRKL33									
		SVRN33,SVRNL33,SSVRN33,SSVRNL33									
		SVRZ33,SVRLZ33,SSVRZ33,SSVRLZ33									
		SVW33,SVWL33,SVWT33,SVWTL33,SSVW33,SSVWL33									
		SVWD33,SVWK33,SVWDL33,SVWKL33									
		SVWZ33,SVWLZ33,SVWTZ33,SVWTLZ33									
		SXR33,SXRL33,SXRJ33,SXRLJ33,SSXR33,SSXRL33									
		SXRD33,SXRK33,SXRDL33,SXRKL33									
		SXRN33,SXRNL33,SSXRN33,SSXRNL33									
		SXRZ33,SSXRZ33,SSXRLZ33									
		SXW33,SXWL33,SXWT33,SXWTL33,SSXW33,SSXWL33									
		SXWD33,SXWK33,SXWDL33,SXWKL33									
		SXWZ33,SXWLZ33,SXWTZ33,SXWTLZ33									
		SERZ36,SERLZ36								8	36
		SEWZ36,SEWLZ36,SEWTZ36,SEWTLZ36									
		SHWZ36,SHWLZ36,SHWTZ36,SHWTLZ36									
		SSHRZ40,SSHRLZ40									
	30	SERZ42,SERLZ42	TMKS-3001-A	-	90	68	7	42	42		
		SEWZ42,SEWLZ42,SEWTZ42,SEWTLZ42									
		SHRZ42,SHRLZ42									
		SHWZ42,SHWLZ42,SHWTZ42,SHWTLZ42									
		SVRZ42,SVRLZ42									
		SVWZ42,SVWLZ42,SVWTZ42,SVWTLZ42									
		SXRZ42,SXRLZ42									
		SXWZ42,SXWLZ42,SXWTZ42,SXWTLZ42									
			TPMK-25-4					40			



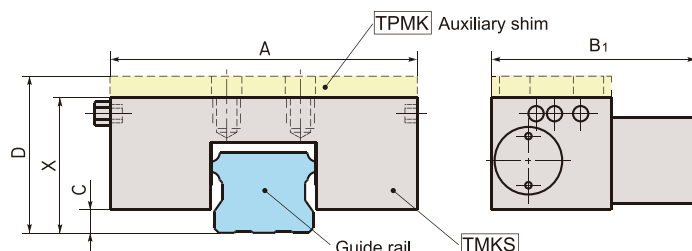


### ● Selection Table

• HIWIN

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension				
					A	B <sub>1</sub>	C	X	D
EG	15	EGH..SA,EGH..CA	TMKS-1501-A	-	55	58	2.5	24	24
		EGW..SC,EGW..CC							
	20	EGH..SA,EGH..CA	TMKS-2001-A	-	66	61		28	28
		EGW..SC,EGW..CC							
	25	EGH..SA,EGH..CA	TMKS-2501-A	TPMK-25-2	75	56	3	31	33
		EGW..SC,EGW..CC							
	30	EGH..SA,EGH..CA	TMKS-3001-A	TPMK-30-2	90	68	5	40	42
		EGW..SC,EGW..CC							
HG	15	HGW..CA,HGW..CB,HGW..CC	TMKS-1501-A	-	55	58	2.5	24	24
		HGH..CA		TPMK-15-4					28
	20	HGH..CA,HGH..HA	TMKS-2001-A	-	66	61	4.5	30	30
		HGW..CA,HGW..HA,HGW..CB,HGW..HB							
		HGW..CC,HGW..HC							
	25	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMKS-2501-A	TPMK-25-4	75	56	8	36	36
		HGH..CA,HGH..HA							40
	30	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMKS-3001-A	TPMK-30-3	90	68	7	42	42
		HGH..CA,HGH..HA							45
	35	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	48
		HGH..CA,HGH..HA							55
	45	HGW..CA,HGW..HA,HGW..CB,HGW..HB,HGW..CC,HGW..HC	TMKS-4501-A	TPMK-45-2	120	82	14.5	58	60
		HGH..CA,HGH..HA		TPMK-45-12					70



## ● Selection Table

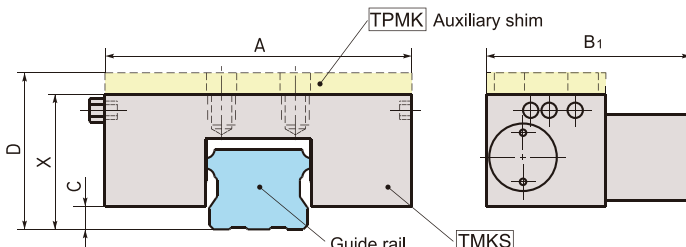
• HIWIN

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension				
					A	B <sub>1</sub>	C	X	D
LG	15	LGW..CC	TMKS-1501-A	-	55	58	2.5	24	24
		LGH..CA		TPMK-15-4					28
	20	LGW..CC,LGW..HC	TMKS-2001-A	-	66	61	4.5	30	30
									36
	25	LGH..CA,LGH..HA	TMKS-2501-A	TPMK-25-4	75	56	8	36	40
									42
	30	LGW..CC,LGW..HC	TMKS-3001-A	-	90	68	7	42	42
									45
	35	LGW..CC,LGW..HC	TMKS-3501-A	TPMK-35-4	100	67	7.5	44	48
									55
	45	LGW..CC,LGW..HC	TMKS-4501-A	TPMK-45-8	120	82	8.5	52	60
									70

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension				
					A	B <sub>1</sub>	C	X	D
KUE	15	KWE	TMKS-1501-A	TPMK-15-4	55	58	2.5	24	24
		KWE..H							28
	20	KWE	TMKS-2001-A	-	66	61	4.5	30	30
		KWE..H							36
	25	KWE	TMKS-2501-A	TPMK-25-4	75	56	4	32	40
		KWE..H							42
	30	KWE	TMKS-3001-A	TPMK-30-2	90	68	5	40	42
		KWE..H							45
	35	KWE	TMKS-3501-A	TPMK-35-8	100	67	3.5	40	48
		KWE..H							55
	20	KWSE,KWSE..L	TMKS-2001-A	-	66	61	4.5	30	30
		KWSE..H,KWSE..HL							36
KUSE	25	KWSE,KWSE..L	TMKS-2501-A	TPMK-25-4	75	56	8	36	40
		KWSE..H,KWSE..HL							42
	30	KWSE,KWSE..L	TMKS-3001-A	TPMK-30-3	90	68	7	42	45
		KWSE..H,KWSE..HL							48
	35	KWSE,KWSE..L	TMKS-3501-A	TPMK-35-7	100	67	11.5	48	55
		KWSE..H,KWSE..HL							60
	45	KWSE,KWSE..L	TMKS-4501-A	TPMK-45-10	120	82	16.5	60	70
		KWSE..H,KWSE..HL							70



### Selection Table

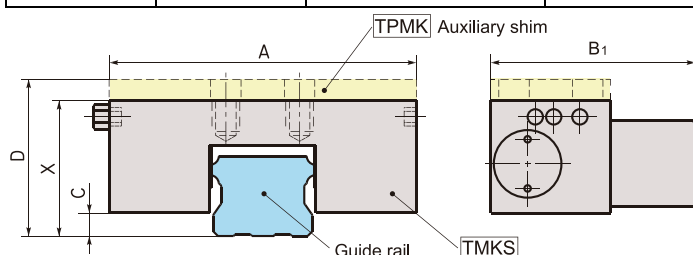
• PMI

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension						
					A	B <sub>1</sub>	C	X	D		
MSA	20	A,LA,E,LE	TMKS-2001-A	-	66	39	4.5	30	30		
		S,LS									
	25	A,LA,E,LE	TMKS-2501-A	TPMK-25-4	75	35	8	36	36		
		S,LS							40		
	30	A,LA,E,LE	TMKS-3001-A	TPMK-30-3	90	39	7	42	42		
		S,LS							45		
	35	S,LS,A,LA,E,LE	TMKS-3501-A	TPMK-35-3	100	49	8.5	45	48		
	45	A,LA,E,LE	TMKS-4501-A	TPMK-45-10	120				16.5	60	60
		S,LS									70
MSB	15	TE,E	TMKS-1501-A	-	55	39	2.5	24	24		
		TS,S									
	20	TE,E	TMKS-2001-A	-	66	35	5	28	28		
		TS,S									
	25	TE,E	TMKS-2501-A	-	75	39	5	33	33		
		TS,S									
	30	TE,E	TMKS-3001-A	TPMK-30-2	90	39	7.5	40	42		
		TS,S									
	35LS,S		TMKS-3501-A	TPMK-35-4	100			44	48		

unit: mm

Types of Guide Rails	Guide rail size	Slider	Model	Auxiliary Gasket Model	Installation dimension				
					A	B <sub>1</sub>	C	X	D
SME	15	EA,LEA	TMKS-1501-A	TPMK-15-4	55	39	2.5	24	24
		EB,LEB							
		SB,LSB							
		SA,SEA							
	20	EB,LEB	TMKS-2001-A	TPMK-20-2	66	35	3	28	28
		SB,LSB							
		SA,SEA							
	25	EB,LEB	TMKS-2501-A	TPMK-25-2	75	39	5.5	31	33
		SB,LSB							
		EA,LEA							
		SV,LSV							
	30	EA,LEA	TMKS-3001-A	TPMK-30-3	90	49	10.5	54	60
		SB,LSB							
		SA,SEA							
	35	EA,LEA	TMKS-3501-A	TPMK-35-6	100	49	10.5	54	60
		SB,LSB							
		SA,SEA							
	45	EA,LEA	TMKS-4501-A	TPMK-45-6	120	49	10.5	54	60
		SB,LSB							
		SA,SEA							

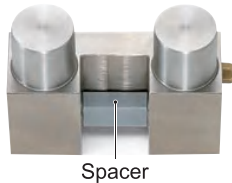


## ● Installation Steps

- Install the guide rail clamp on the linear guide while the clamping is released, and ensure that the contact surface of the guide rail clamp can move without touching the linear guide. For pneumatic connections, please refer to the product manual.
- Preload the guide rail clamp on the used slide table.
- Clamp the guide rail.
- With the guide rail clamped, use a torque screwdriver or torque wrench to tighten the mounting bolts according to the specified tightening torque. Refer to each product's introduction page for the tightening torque.
- Confirm again that the guide rail clamp is not in contact with the protective cover, base, or other parts.

**⚠** For normally open products, do not perform clamping when the guide rail or shaft is not inserted. Clamping in the absence of an inserted guide rail or shaft will cause the guide rail clamp not to operate.

**⚠** Normally closed products have spacers inserted between the contact surfaces when leaving the factory. Do not remove the spacers except during installation. If left for a long time without the spacers, it may cause the guide rail clamp to fail to operate.



- When using multiple rails, it is recommended to install rail clamps on all rails to avoid uneven loading.



- Sometimes the size of the guide rail clamp may be larger than that of the slider. When designing, please pay attention to the width and height to avoid contact with the cover, base, etc.

**⚠** The guide rail clamp does not have a guiding function. To maintain the clearance between the guide rail clamp and the guide rail shaft, please use the linear guide carriage and linear bearing together.

## ● Pneumatic Piping

- Please install an air filter with a filtration rating of 25μm or less.
- Please install a fuel supply device such as a fuel injector.
- For pipe fittings, please use the external thread specifications listed in the table below.

Pneumatic connection	Pipe fitting
M3	M3
M5	M5
G1/8	R1/8

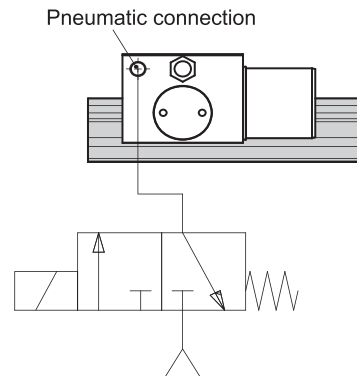
- The table below recommends the outer diameter specifications for hoses. The smaller the hose's outer diameter, the longer the reaction time.

Nominal size of the guide rail	Outer diameter
#20 or more	φ 4mm or more
Over #20	φ 6mm or more

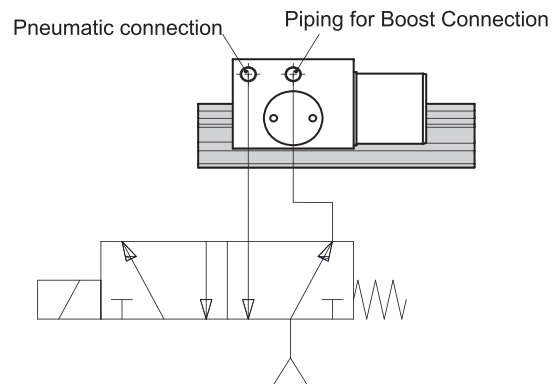
- Please try to shorten the length of the piping. The longer the piping, the longer the reaction time.
- The air pressure connection (air supply) can be swapped between left and right. Please change the connection position according to the operating conditions.



- Common Piping Method  
Please use a switching valve with three or more ports.



- Piping method when using 'boost connection'  
Please use a switching valve with 5 or more ports. Remove the air filter and connect the piping for the boost connection.

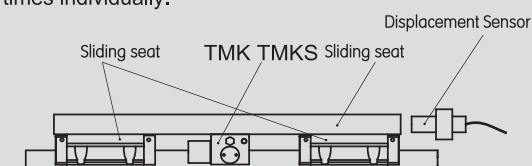


**⚠** When using 'boosted connection,' air supply must be provided at all times. If the air supply stops, it will be maintained by spring force alone, just like during normal use.

### ● TMK TMKS Clamping Movement Test

#### Test Method

Measure the movement of the TMK TMKS slide when clamped. Measurements are carried out without any external force applied. Each product is measured 10 times individually.



#### ● Slider Weight

unit: kg

#15use	2.5
#20use	3.2
#25use	3.6
#30use	5.3
#35use	6.2

The TMK and TMKS have a structural relationship and will move slightly when clamped. However, the amount of movement is minimal.

#### TMK Normally Open Pneumatic

unit: mm

Serial Number	TMK-1501-A	TMK-2001-A	TMK-2501-A	TMK-3001-A	TMK-3501A
1	0.010	0.006	0.008	0.005	0.007
2	0.010	0.006	0.007	0.005	0.006
3	0.009	0.006	0.009	0.005	0.008
4	0.010	0.005	0.008	0.004	0.007
5	0.009	0.006	0.009	0.005	0.008
6	0.009	0.006	0.009	0.005	0.008
7	0.010	0.005	0.008	0.004	0.007
8	0.009	0.006	0.009	0.005	0.008
9	0.009	0.005	0.009	0.004	0.008
10	0.009	0.005	0.008	0.004	0.007
Average	0.009	0.006	0.008	0.005	0.007

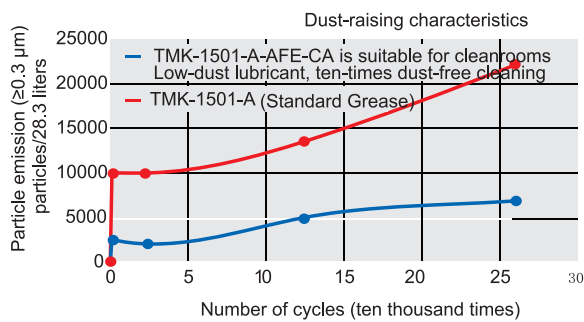
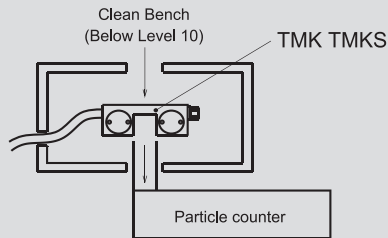
#### TMKS Normally Open Pneumatic Type

unit: mm

Serial Number	TMKS-1501-A	TMKS-2001-A	TMKS-2501-A	TMKS-3001-A	TMKS-3501-A
1	0.005	0.003	0.002	0.002	0.001
2	0.004	0.003	0.002	0.001	0.001
3	0.004	0.003	0.001	0.001	0.002
4	0.004	0.003	0.001	0.002	0.001
5	0.004	0.003	0.002	0.002	0.001
6	0.003	0.003	0.001	0.002	0.001
7	0.003	0.003	0.001	0.001	0.001
8	0.003	0.003	0.001	0.001	0.002
9	0.003	0.003	0.001	0.002	0.001
10	0.004	0.003	0.001	0.001	0.001
Average	0.004	0.003	0.001	0.002	0.001

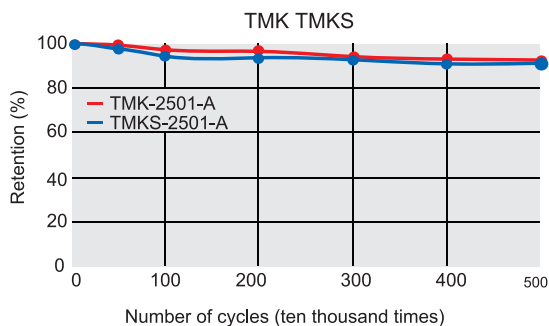
## ● TMK Dust Emission Test

**Test Method**  
Model: TMK-1501-ATMK-1501-A-AFE-CA  
Perform approximately 250,000 cycles of clamping and release, measuring the dust generation of the standard specification product (standard grease) and the cleanroom specification product (low-dust grease).



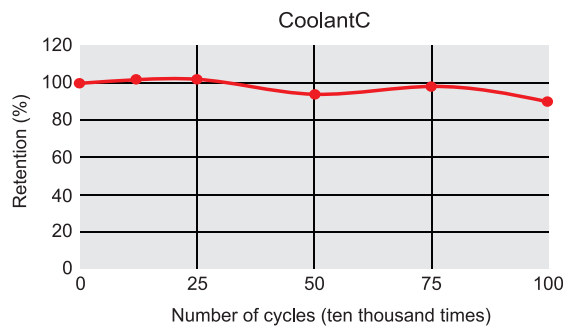
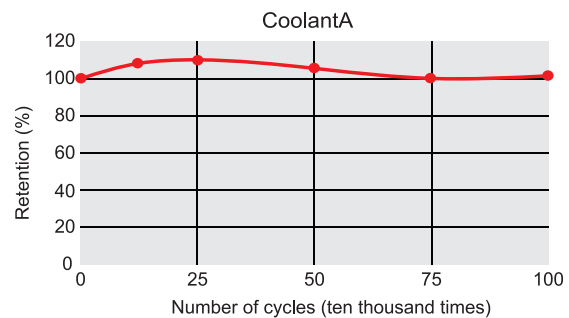
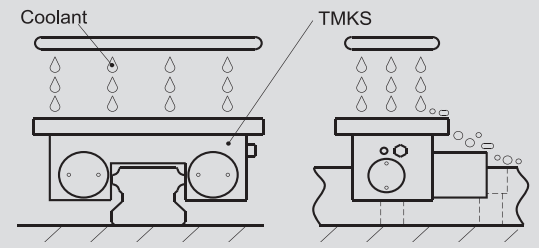
## ● Number of cycles (ten thousand times)

**Test Method**  
Perform clamping and releasing actions the specified number of times, and measure the holding force.  
Model: TMK-2501-ATMKS-2501-A



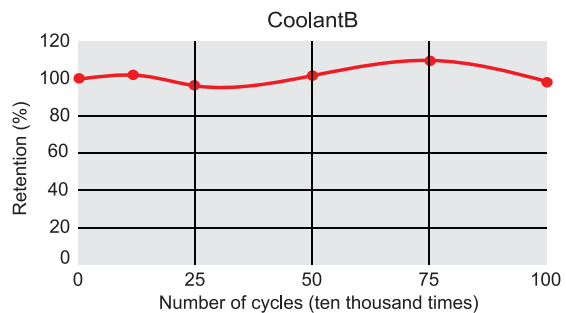
## ● Coolant Durability Test

**Test Method**  
Perform 1 million clamping and releasing cycles in an environment where coolant splashes.  
Model: TMKS-4501-A

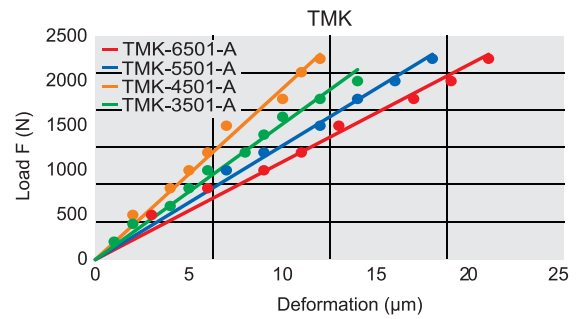
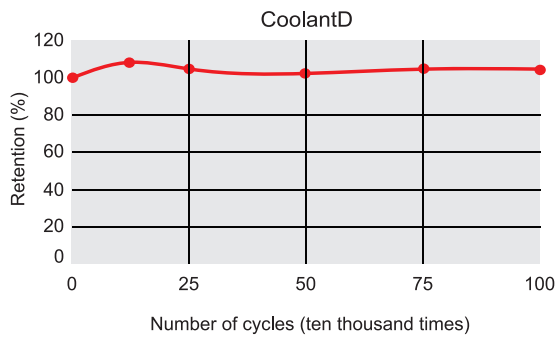


Value when the initial holding force is 100%.  
The change in holding force is small, and durability is excellent.

Value when the initial holding force is 100%: after 1 million cycles, the change in holding force is small, and durability is excellent. For detailed information about coolants and other matters, please contact the customer center.





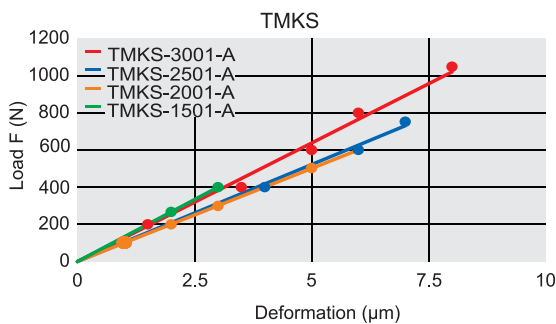
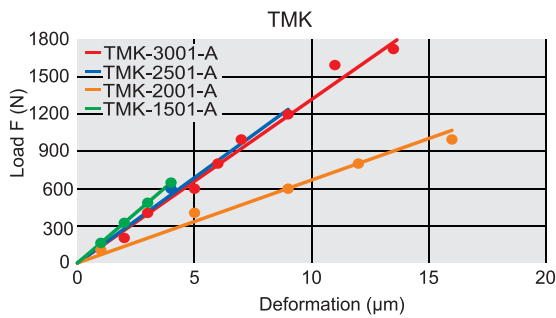
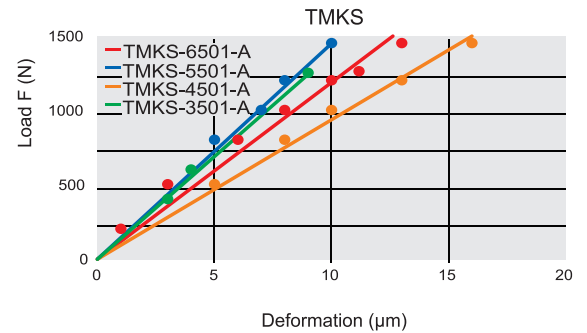
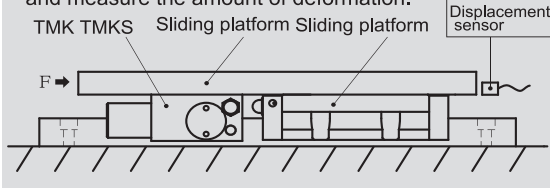


### ● Rigid test

#### Test Method

Measure the rigidity when the holding force is below that of the TMKT MKS.

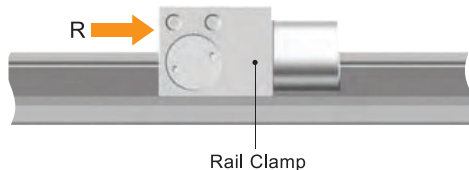
Apply a load to the slide in the clamped guide rail state and measure the amount of deformation.



## ● Endurance

Axial load of the guide rail that can maintain its position (R direction in the figure below).

The holding force varies depending on the coefficient of static friction between the guide rail and the contact surface. The holding force listed in this product catalog is calculated based on a static friction coefficient of 0.1.



### ( Normally Open )

Model: TMK

Value when the pressure is 0.6 MPa. The holding force varies in proportion to the pressure. For example, when using a pressure of 0.5 MPa, the holding force is 5/6 of the value listed in the product catalog.

### ( Normally Closed )

Model: TMKS

The holding force is a fixed value.

## ● Clamp

Clamp the sides or the bottom of the groove of the guide rail. It is most suitable for securing the slide, positioning, and preventing vibration. Do not clamp the guide rail while the slide is in motion. Please clamp the guide rail only when the slide has come to a complete stop.

Since the contact surface does not touch the rolling grooves of the linear guide, it will not adversely affect the accuracy of the linear guide.

### ● ( Normally Open )

When supplying air pressure or hydraulic pressure: clamp the linear guide rail.

When releasing air pressure or hydraulic pressure: disengage the clamp.

### ● ( Normally Closed )

When supplying air pressure or hydraulic pressure: release the clamping.

When releasing air pressure or hydraulic pressure: clamp the linear guide rails with the force of a spring or similar device.

### Minimum Operating Pressure

This is the minimum pressure that the rail clamp can use.

If the operating pressure is lower than the minimum operating pressure specified in the product catalog, the guide rail clamp may not function.

### Maximum Operating Pressure

This is the maximum pressure that the rail clamp can use.

When using a pressure higher than the maximum operating pressure listed in the product catalog, the guide rail clamp may be damaged or harmed.

### Operating Temperature

The operating temperature for the rail clamp.

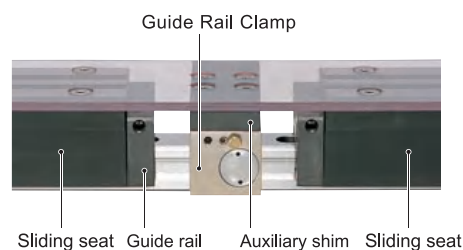
If the ambient temperature exceeds the temperature range specified in the product catalog, seals and other components may age prematurely.

### Open pressure

It is the pressure required to release clamping for pneumatic, normally closed products.

## ● Auxiliary shim

Auxiliary shims that align the height of the guide rail clamp with the height of the linear guide slider. Depending on the combination of the guide rail clamp and the guide rail, auxiliary shims may sometimes be required. The applicable shim models are listed in the "Selection Table" of each product.



### Air consumption

The amount of air required for one stroke to operate the guide rail clamp.

### ( Normally Open )

The time from when the system sends the signal to supply air and power to when it begins supplying air and power to the guide rail clamp.

### ( Normally Closed )

The time from when the system sends the signal to supply air and power to when it begins supplying air and power to the guide rail clamp.

The response time varies depending on the operating time of the solenoid valve used, the length of the piping, the supply pressure, and other factors.

## ● Response Time

### ( Normally Open )

The time from starting to supply air to the rail clamp to clamping the linear guide.

### ( Normally Closed )


The time from stopping the supply of air to the guide rail clamp to clamping the linear guide rail.

## ● Boost Connection

For pneumatic and normally closed TMKS, the holding force can be significantly increased using a 'pressure-boost connection'.

"Pressurized connection" refers to a connection method that increases the holding force by adding air pressure on top of the spring's holding force, thereby enhancing the overall holding force.

The holding force of the 'boost connection' in this product catalog is the value at a pressure of 0.6 MPa.

 Whether clamping or releasing, air pressure must continuously be supplied to the 'boost connection.' When the system is turned off and the air pressure supply stops, the holding force is only the 'standard' holding force generated by the spring. Therefore, when using a 'boost connection,' do not use the guide rail clamp as an emergency brake. Please be careful.

For safe use of the product, please read the "Safety Precautions" and the "Usage Precautions" and "How to Use" sections on each product page carefully before use. After reading, please keep this product catalog properly so that it can be referred to at any time when necessary.

### Danger

Indicates that errors in operation could result in death or serious injury.

- Please install protective covers on the device for the guide rails, Kuraba, and other components. Otherwise, during operation, contact with the product by hands or fingers may cause injury.
- When installing or removing the product, be sure to disconnect the power supply to the device.
- Be sure to use a torque wrench and a torque screwdriver to properly tighten screws and other fasteners.
- Do not disassemble or modify the product.
- Incorrect handling of compressed air or fluids can be dangerous. Installation, operation, and maintenance should be performed by personnel with relevant knowledge and experience.

### Notice

Indicates that an operating error could potentially cause injury to people or damage to property.

- Do not use it under conditions exceeding the holding force specified in this product catalog. Otherwise, it may cause damage to the guide rail clamp or adversely affect surrounding equipment.
- The guide rail clamp uses the wedge effect to create a friction connection. Slippage may occur in the following situations.
- When the friction coefficient between the linear guide and shaft and the contact surface is significantly reduced due to the effect of oil, lubricants, etc.
- When bearing a large impact load.
- When the pressure of the supplied air or oil is too low.
- Ensure that the operating temperature range for the rail clamp is 0-70°C.
- Exercise caution when using the product. Otherwise, it may become deformed or damaged if it falls. Handle it carefully during transport to avoid straining your back or injuring your feet if the product drops.
- Do not store or use in environments that may adversely affect the product.
- If abnormal noises or vibrations occur during operation, stop immediately and check whether the guide rails and shafts are in contact with each other, or if any screws are loose.
- When discarding, please entrust a professional company to handle it to avoid affecting the environment.
- Do not touch the product immediately after it has stopped operating. Due to heat conduction from surrounding devices, the product may be hot and there is a risk of burns.
- The guide rail clamp is not a product of the linear guide manufacturer. The linear guide manufacturer is not responsible for any losses caused by the use of the guide rail clamp and does not provide any warranty. Thank you for your understanding.



### ● Product Features

In systems using linear guides, after moving the workpiece to the designated position, a locking unit is used to lock it in place, maintain a stop for safety, or prevent falling.

### ● Product Order Code

① series	–	② Guide rail width	③ Unblock the mouth	④ Manual release	+	⑤ Gasket	⑥ Guide rail width
TCKS	–	15	B	H	+	TPCK	15

① series	② Guide rail width	③ Unblock the mouth	④ Manual release	+	( Note )	⑤ Gasket	⑥ Guide rail width
TCKS Without scraper type	15	Blank: Port size For M5 B: Port size For G1/8	Blank: No manual release H: Has manual release	+		TPCK	15
	20						-
	25						25
	30						30
	35						35

Note: '⑤⑥' is required only when using guide rail models HSR/SHS-R/LR.

### ● Applicable Rail Model for the Product

Use rail width	Use rail model																										
	SR								SSR		HSR								SHS								
15	•				-				•	•	•		-						•		•	-					
20	•				-				•	•	•		•						•		-	-					
25	-				•				•	•	•		•						•		•	•					
30	•				-				•	-	•		•						•		•	•					
35	•				-				•	-	•		•						•		•	•					
Use unit model	W	V	TB	SB	WY	VY	TBY	SBY	XW	XV	XTB	A	B	R	LA	LB	LR	CA	HA	CB	HB	C	LC	V	LV	R	LR
Use rail width	Use rail model																				Unblock the mouth		Manual release				
	NR								NRS				SNR				SNS				Unsigned: Lock Release port M5  B: Lock release port G1/8	Unsigned:None H: Present					
15	-								-				-				-										
20	-								-				-				-										
25	-								-				-				-										
30	•								•				•				•										
35	•								•				•				•										
Use unit model	A	LA	B	LB	R	LR	A	LA	B	LB	R	LR	C	LC	R	LR	C	LC	R	LR							

Note 1: This product cannot be used as a brake (to stop a moving workpiece). When used for fall prevention (holding in a stationary state), please use it at less than 50% of the clamping force.

Note 2: Manual release must be performed with the TCKS installed on the guide rail; otherwise, malfunctions may occur. Therefore, for the manual release option-H, please use the dedicated release bolt provided with the product.

### ● Specification

Project		TCKS-15	TCKS-20	TCKS-25	TCKS-30	TCKS-35
Guide rail width                   mm		15	20	25	30	35   [Note1]
Applicable Rail Manufacturer		THK				
Using fluids		Compressed air				
Maximum Operating PressureMPa		1.0				
Minimum Operating Pressure   MPa		0.35				
Pressure resistance               MPa		1.5				
Ambient temperature            °C		－ 5 ～60 (However, must not be frozen)				
Keep it up		Not allowed				
Pipe diameter		M5 (G1/8Selection option )				
Clamping force                   N[Note2]		300	450	600	850	1150
Initial backlash		±0.05				
Weight  (g)	Engine block	600	900	1200	1900	2800
	Scraper with additional weight	50	70	100	180	220
	Manually remove the additional weight	160	230	340	550	820

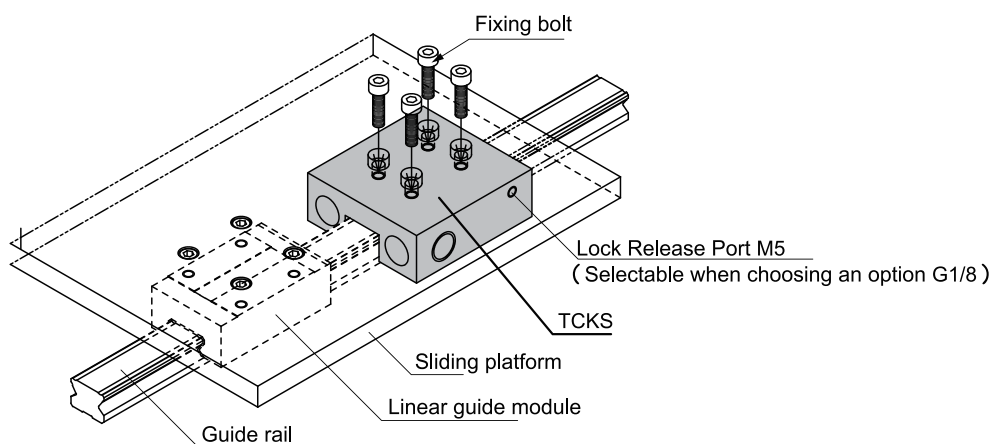
[Note 1] For applicable rail models, please refer to the product applicable rail models.

[Note 2] Clamping force refers to the ability to maintain a static load without vibration or impact when in a locking action state under no load.

Additionally, the above clamping force values are measured with grease applied, and depending on the surrounding environment, it may sometimes not meet the clamping force requirements.

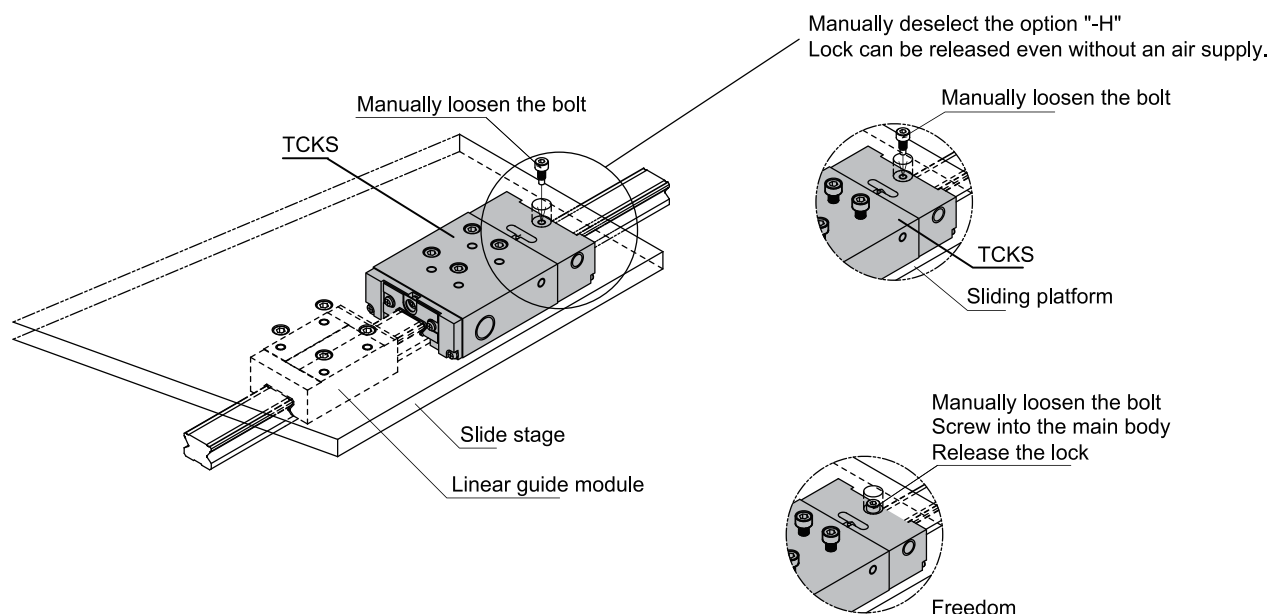
### ● Product Introduction

Because it has the same height as the linear guide module, it can effectively make use of the remaining space.



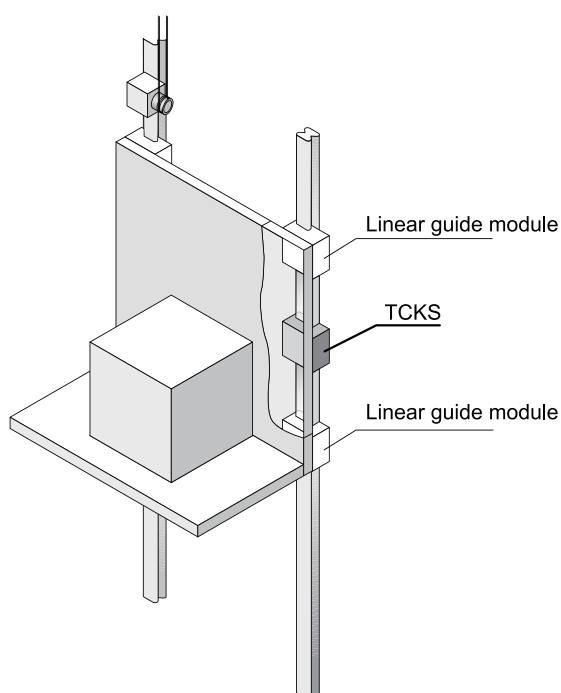
1. Although small, it has strong clamping force.
2. Unlocking is done by supplying air (there is also an option for manual release).
3. Can also be used for holding and preventing drops when stopped (holding in a stationary state).

## Introduction to Options



## ● Usage Example

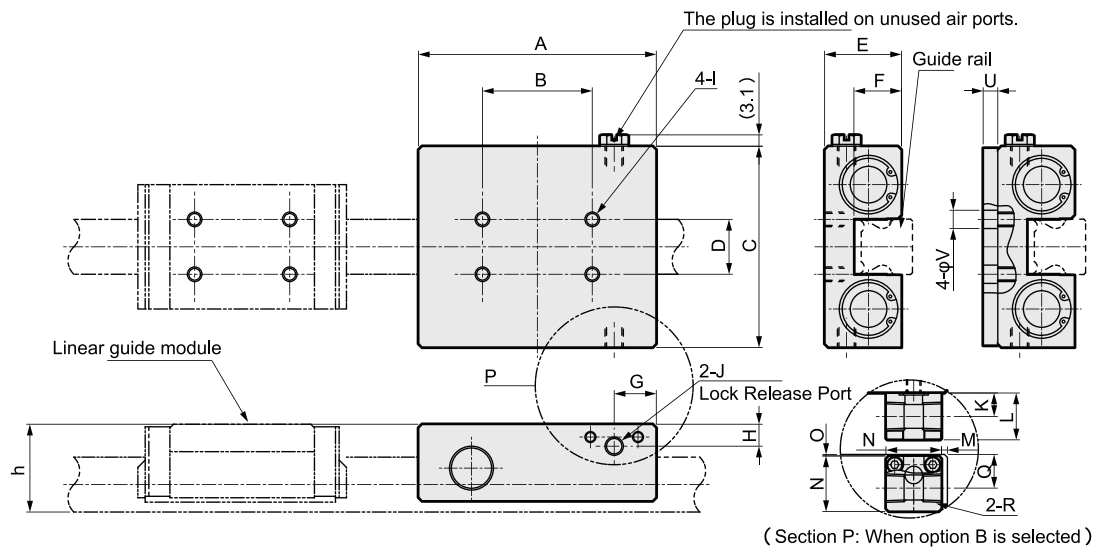
Fixing, fall prevention, and clamping of the sliding platfo





### ● Overall Dimensions Diagram

#### No manual release

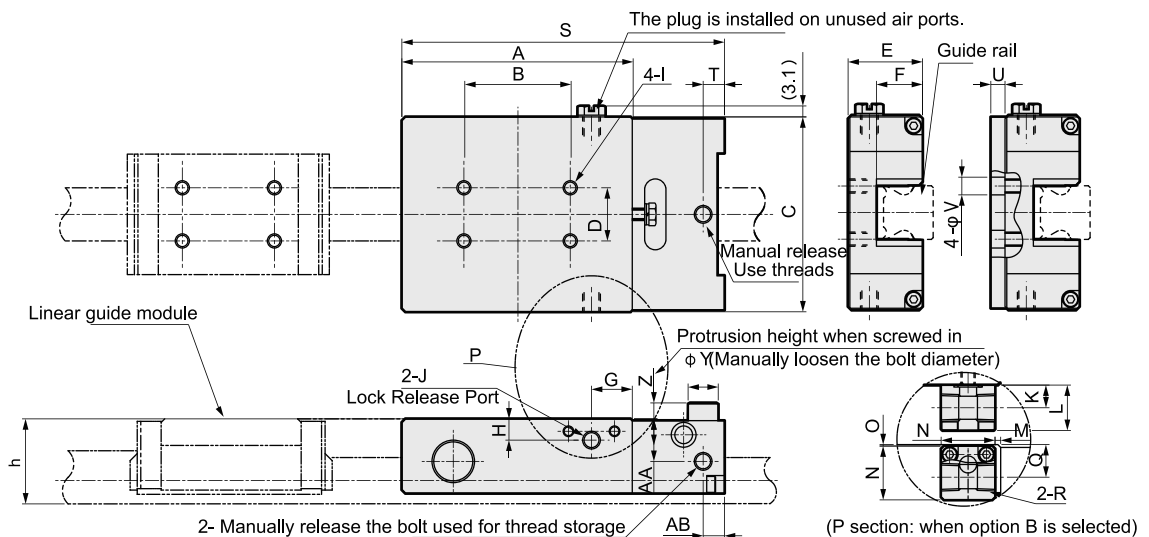


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R	+	Model	U	V
TCKS15	65	30	55	15	21	13	11.5	6	M4Depth5	M5	8	16	2	19	0.5	11.5	G1/8		TPCK15	4	5
TCKS20	70	30	66	20	24.5	13.5	12	6	M5Depth6	M5	8	16	2.5	19	0.5	11.5	G1/8		-	-	-
TCKS25	75	30	75	20	29	16	10	6	M6Depth7	M5	8	16	0.5	19	0.5	11.5	G1/8	+	TPCK25	4	7
TCKS30	82	30	88	25	35.5	20.5	12	6.5	M6Depth9	M5	8	16	2.5	19	1	12	G1/8		TPCK30	3	7
TCKS35	90	40	102	30	40	22	12	7	M8Depth9	M5	8	16	2.5	19	1.5	12.5	G1/8		TPCK35	7	9

[Note 1]: The h dimension depends on the guide rail used.

[Note 2]: U and V dimensions are limited to HSR/SHS-R/LR types.

#### Can be manually released



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R	S	T	Y	Z	AA	AB	+	Model	U	V
TCKS15	65	30	55	15	21	13	11.5	6	M4Depth5	M5	8	16	2	19	0.5	11.5	G1/8	91	6	8.5	4.5	12	6	+	TPCK15	4	5
TCKS20	70	30	66	20	24.5	13.5	12	6	M5Depth6	M5	8	16	2.5	19	0.5	11.5	G1/8	98	6.5	8.5	4.5	15.5	6		-	-	-
TCKS25	75	30	75	20	29	16	10	6	M6Depth7	M5	8	16	0.5	19	0.5	11.5	G1/8	105	6.5	10	5.5	19	7		TPCK25	4	7
TCKS30	82	30	88	25	35.5	20.5	12	6.5	M6Depth9	M5	8	16	2.5	19	1	12	G1/8	117	8.5	10	5.5	25.5	9		TPCK30	3	7
TCKS35	90	40	102	30	40	22	12	7	M8Depth9	M5	8	16	2.5	19	1.5	12.5	G1/8	130	9.5	13	7.5	30	10		TPCK35	7	9

[Note 1]: The h dimension depends on the guide rail used.

[Note 2]: U and V dimensions are limited to HSR/SHS-R/LR types.



## ● Product Features

Linear guide clamps are key components in a linear guide system, mainly used to secure and adjust the slider, ensuring the stability and accuracy of the moving parts.

## ● Product Order Code

① series

ZAGSCK

② Type

Hand shape

③ Material

S45C

④ Surface treatment

Electroless nickel plating

① Model	② Type	③ Material			④ Surface treatment		
		①Subject	②Left and right screws	③Clamp block	①Subject	②Left and right screws	③Clamp block
ZAGSCK	Hand shape	S45C	SCM435	S45C	Electroless Nickel Plating	turn black	—
ZAGSCN	Knob type						

[Note]: For horizontal use only; do not use for vertical positioning.

[Note]: Please use according to the H dimension of medium-load/heavy-load linear guides.

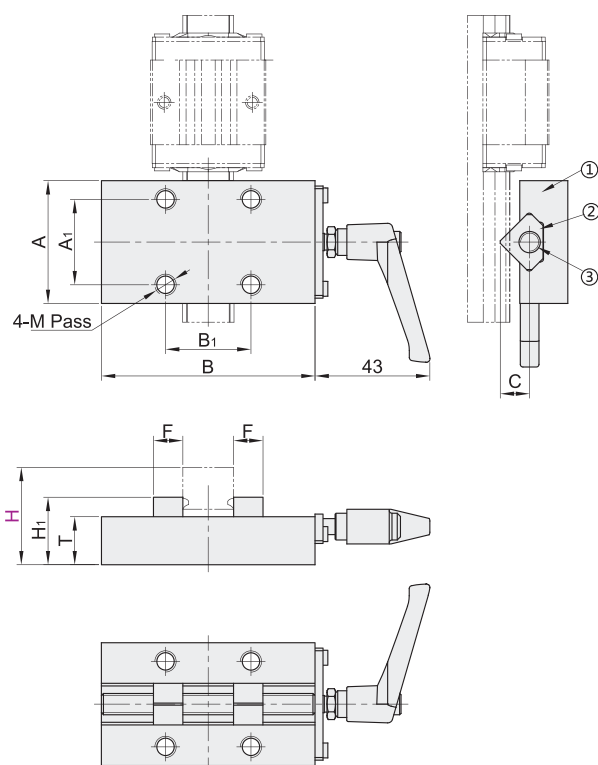
## ● Usage Example



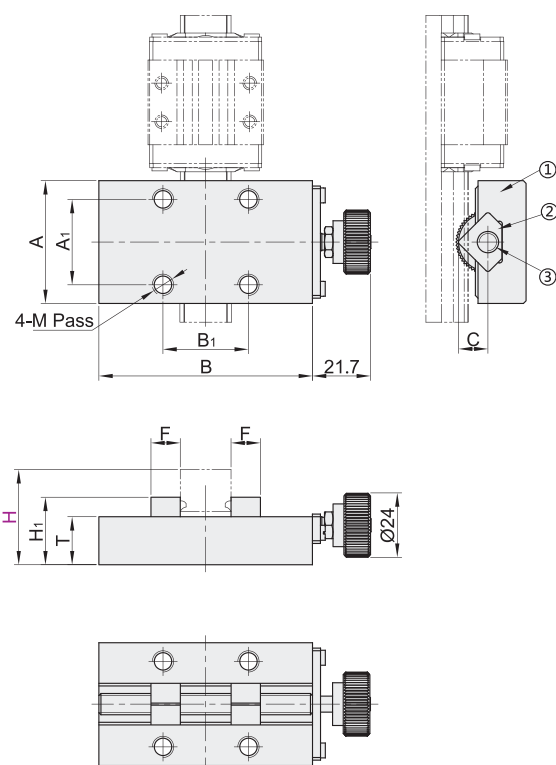
[Note]: Used for securing slides, machine positioning, and preventing vibration.

### ● Overall Dimensions Diagram

Hand shape ZAGSCK



knob type ZAGSCN



Perspective Standard:  
First-Person Perspective

Model		A	B	A <sub>1</sub>	B <sub>1</sub>	F	T	H <sub>1</sub>	C	M	Clamp block adjustment range	Tightening Torque (N·m)		THolding Force (N)	
Code	H											ZAGSCK	ZAGSCN	ZAGSCK	ZAGSCN
ZAGSCK Hand shape	24	32	44	24	24	10	10.5	16.3	9.5	M4	10~22	2.5	0.7	400	100
	28	35	50	25	25	10	11.5	17.3	9.5	M5	14~28				
	30	38	54	28	28	11	11	18.3	11	M5	15~30				
ZAGSCN Knob type	33	38	62	26	26	10	14	19.8	9.5	M6	16~40				
	36	42	60	30	30	11	13	20.3	11	M6	17~36				
	42	46	80	32	32	11	18	25.3	11	M8	21~56				

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