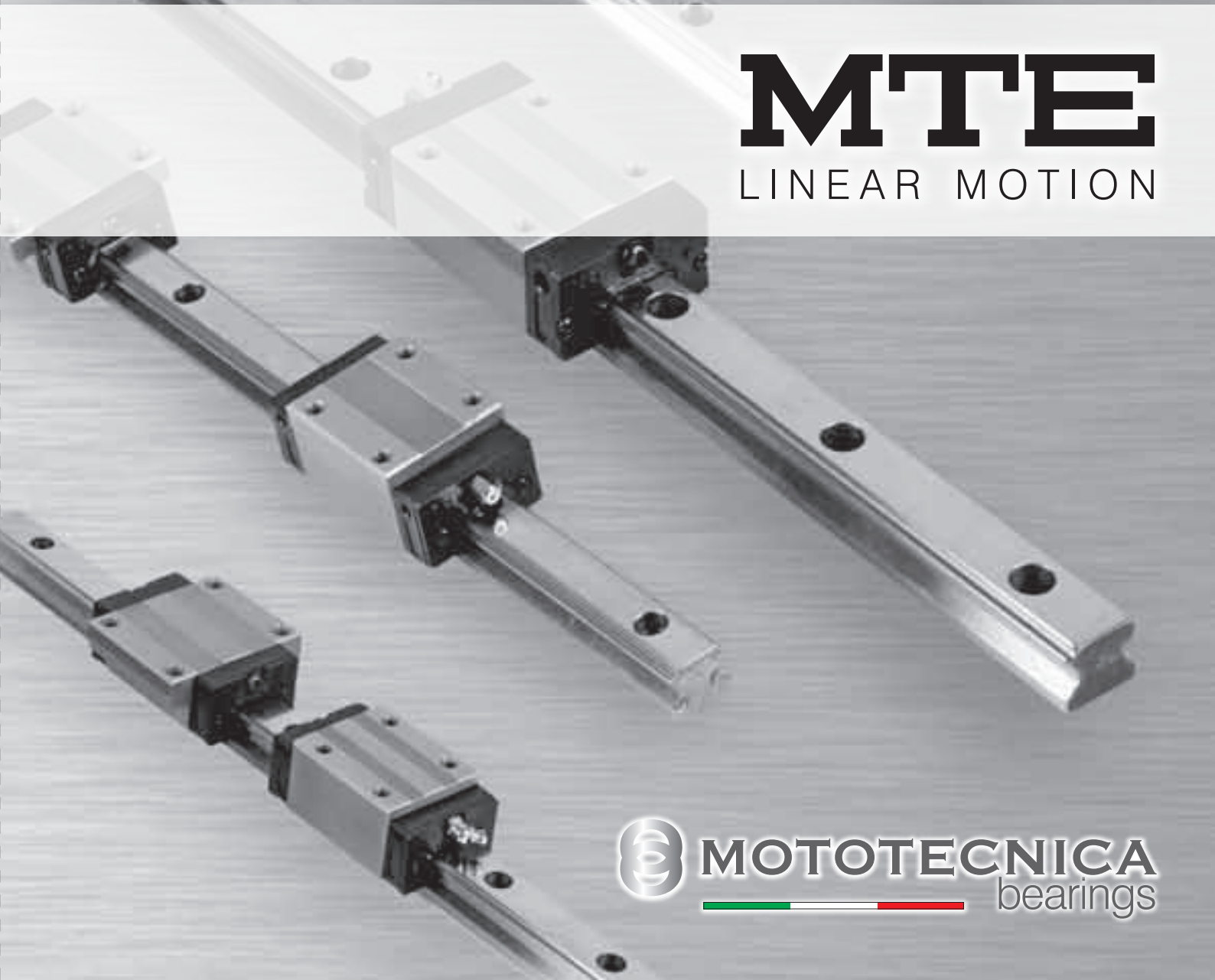


MTE

LINEAR MOTION



ENTERPRISE DIRECTORY



Linear Guide Series

Product Structure	A01
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Ball Screw Series

Ball Screw Model Code	B01
SFU Type Ball Screw Size Table	B02-03
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DFI Type Ball Screw Size Table	B06
SCI Type Ball Screw Size Table	B07
SFE Type Ball Screw Size Table	B08
Suggestion of Shaft End Size	B09



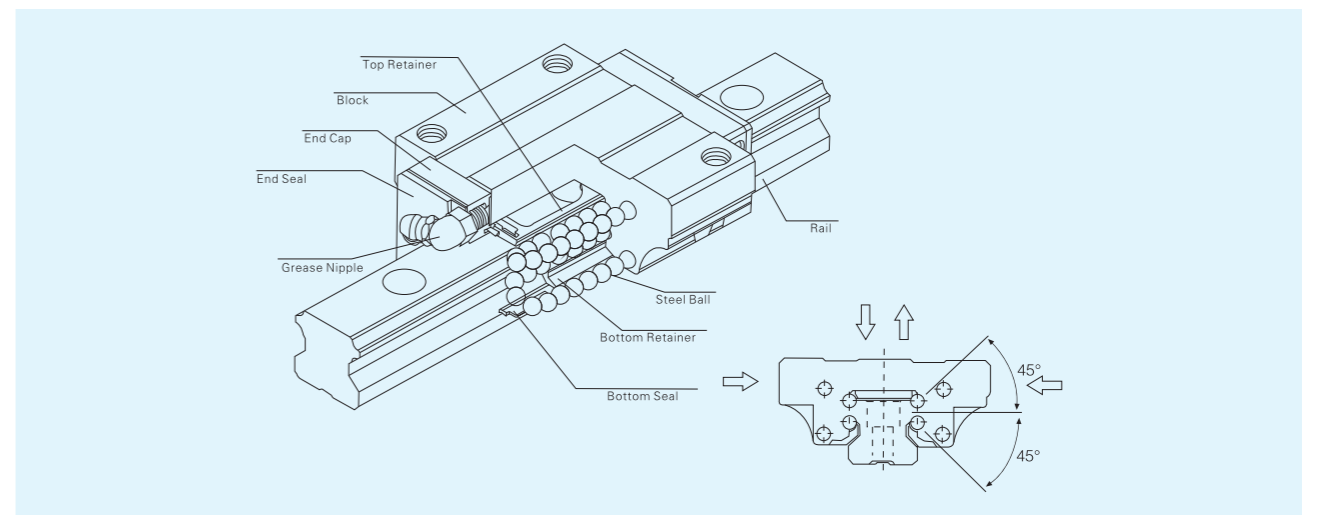
Ball Screw Support End Series

BK Fixed End/BF Support End	C01
EK Fixed End/EF Support End	C02
FK Fixed End/FF Support End	C03

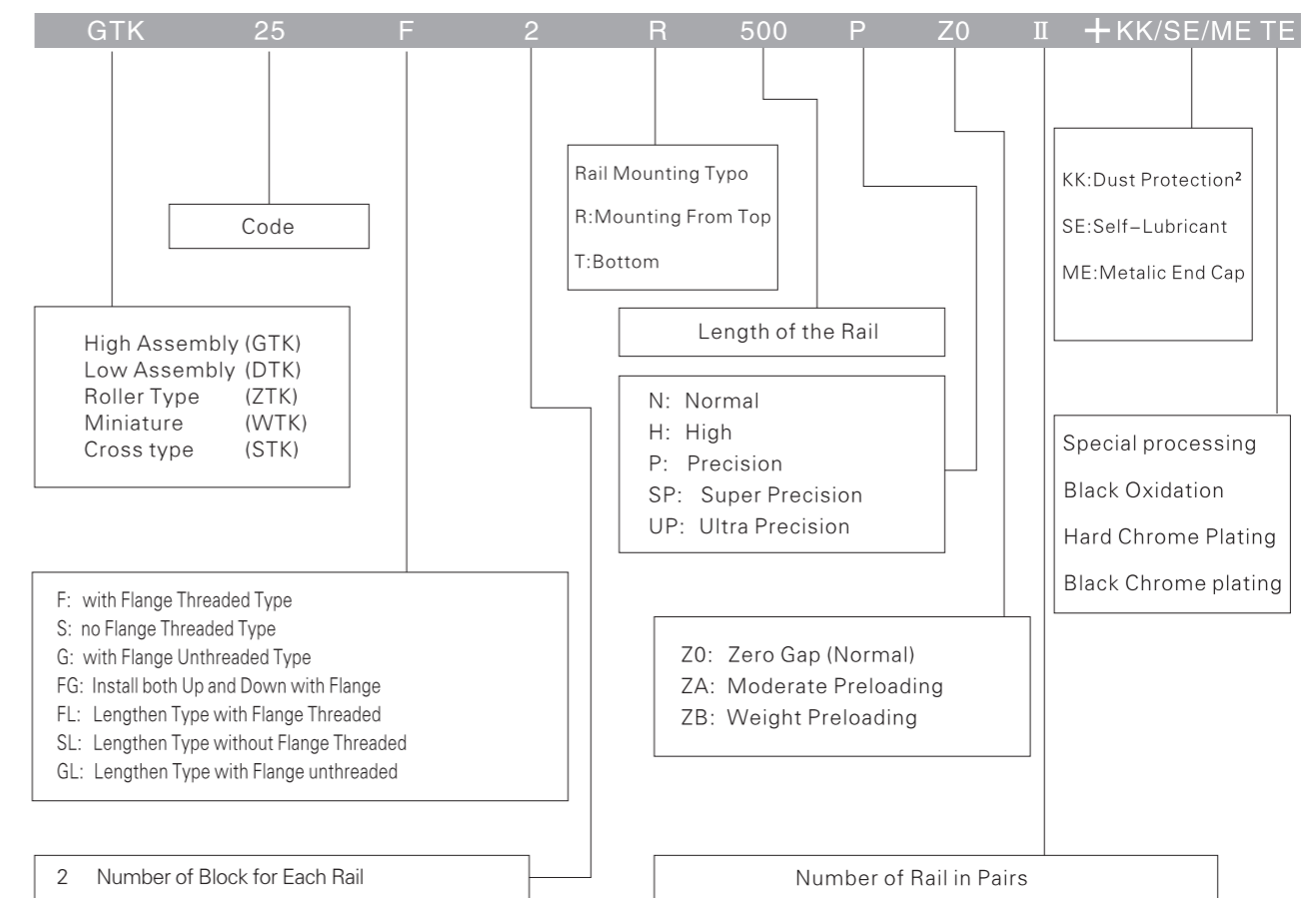


A | Linear Guide Series

Product Structure ▶



Linear Guide Model Code ▶



Interchangeability

For the tightly control of production precision, all the size can be maintained at a stable tolerance range. So the interchange type linear guide can keep the same smoothness, preloading and precision when the block arbitrarily assemble on the same type of rail. It is very easy to assemble and repair.



High Positioning Accuracy

When machine that vectoring by linear guide, the friction coefficient will be 1/50 of sliding friction coefficient, as the friction method of linear guide is rolling friction, the disparity of dynamic friction and static friction will become smaller, when machine runs, there will be no slipping phenomenon and the positioning accuracy can reach very high

Excellent Lubrication Design

Lubrication design patent, can evenly the lubricating grease injection Patent design of Lubricant oil-way can evenly inject lubricating grease to every luo and obtain the optimal lubrication effect under various installation method, it improves the overall running smoothness and service life to achieve the high precision, high reliability and smooth stability of linear motion requirements

Four Direction Equal Load Capacity

GTK rail rolling body is to be designed with special pressure angle which make it can bear the same rated load of its radial, anti radial and horizontal direction.

High Rigidity, High Load

GTK Linear guideway is designed with four columns arc grooves which increase the contact area, compare with two columns groove design, it has been greatly improve on the loading capacity, contact stiffness and system rigidity.

High Precision

GTK linear guideway is produced by high precision special plane which can polyhedrally grind at the same time, detected by laser and other advanced process. All of these guarantee the manufacturing precision of GTK linear guideway.

Smoothness, Low Noise,

The returning device of GTK linear guide adopt a simple and lubricant ball recirculation design with shock resistant circulative accessory --strengthening synthetic resin, the smoothness of the movement is good which achieves a smooth and noiseless linear motion

Compact Structure

The section and rigidity of GTK linear guideway attain the most optimal design which is with a small section but high rigidity, thus achieve the purpose of miniaturization of machine tool.

Easy Installation

Low requirements of installation guide for GTK users, it is easy for installation and debugging

With automatic self-aligning capability

Arc groove design of the front combination makes the linear guideway has the ability to automatically adjust the center, even if to give preloading it can absorb installation error, and maintains a high precision, smooth and stable linear motion.

Accuracy for Choose ▶

Five accuracy grades for choose: Normal, High, Precision, Super Precision, Ultra Precision.

The accuracy of GTK series products are mainly reflected on three aspects: accuracy of running parallelism, accuracy of assembly size, accuracy of the position error of height and width in pairs (when several blocks used on one rail or several rails install on one plane, the position error of height and width in pairs is prescriptive)

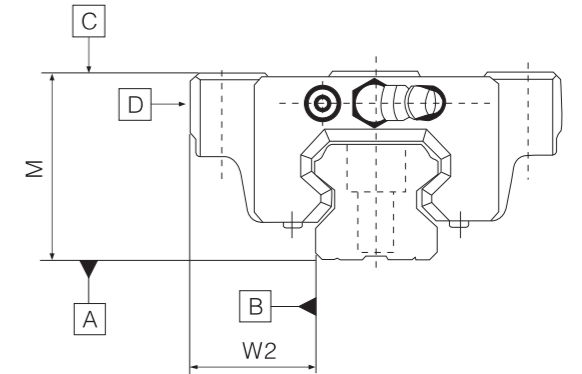
For details please refer to the specification table

Machine Type	Accuracy Class				
	N	H	P	SP	UP
Machining Center			○	○	
Turning Lathe			○	○	
Milling Machine			○	○	
Boring Machine			○	○	○
Jig-Boring Machine				○	○
Grinding Machine			○	○	○
Electrical Discharge Machine		○	○		
Pressing Machine		○	○		
Laser Processing Machine	○	○	○		
Woodworking Machine	○	○	○		
NC Drilling Machine		○	○		
Tapping Center		○	○		
Container Switching Device	○				
ATC	○				
Wire Electrical Discharge Machining		○	○		
Wheel Dressing Device			○	○	

Machine Type	Accuracy Class				
	N	H	P	SP	UP
Orthogonal Coordinate	○	○			
Cylindrical Coordinate	○	○			
Line Adapter		○	○		
Detector			○	○	
Electronic Component Insertion Machines	○	○			
Printed Circuit Board Tapping Machine	○	○	○		
Injection Moulding Machine	○	○			
Three Dimensional Measuring Instrument			○	○	
Office Machine	○	○			
Transmission Machine	○	○			
XY Work Table	○	○	○		
Coating Machine	○	○			
Welding Machine	○	○			
Medical Machine	○	○			
Digitizer	○	○	○		
Checking Device		○	○	○	

Accuracy Specification ▶

Geometric tolerance and accuracy of GTK type show as table 1 in page A05 and table 2 in page A06, the accuracy of each type is separated into :Normal,High,Precision,Super Precision, Ultra Precision

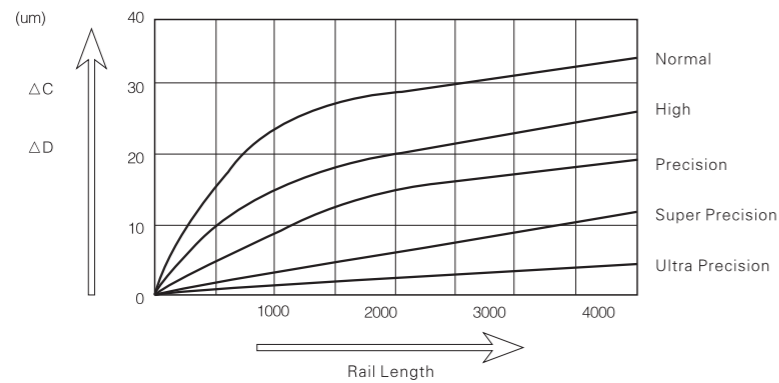


Size Accuracy Inspection of GTK Linear Guide (Table 1)

Model Code	Accuracy specification	Normal	High	Precision	Super Precision	Ultra Precision
		N	H	P	SP	UP
GTK15 GTK20	allowable error of height size M	±0.1	±0.03	$\begin{matrix} 0 \\ -0.03 \end{matrix}$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$
	allowable mutual error of height size M in pairs	0.02	0.01	0.006	0.004	0.003
	allowable error of width size W2	±0.1	±0.03	$\begin{matrix} 0 \\ -0.03 \end{matrix}$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	$\begin{matrix} 0 \\ -0.008 \end{matrix}$
	allowable mutual error of width size W2 in pairs	0.02	0.01	0.006	0.004	0.003
GTK25 GTK30 GTK35	allowable error of height size M	±0.1	±0.04	$\begin{matrix} 0 \\ -0.04 \end{matrix}$	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	$\begin{matrix} 0 \\ -0.01 \end{matrix}$
	allowable mutual error of height size M in pairs	0.02	0.015	0.007	0.005	0.003
	allowable error of width size W2	±0.1	±0.04	$\begin{matrix} 0 \\ -0.04 \end{matrix}$	$\begin{matrix} 0 \\ -0.02 \end{matrix}$	$\begin{matrix} 0 \\ -0.01 \end{matrix}$
	allowable mutual error of width size W2 in pairs	0.03	0.015	0.007	0.005	0.003
GTK45 GTK55	allowable error of height size M	0.1	±0.05	$\begin{matrix} 0 \\ -0.05 \end{matrix}$	$\begin{matrix} 0 \\ -0.03 \end{matrix}$	$\begin{matrix} 0 \\ -0.02 \end{matrix}$
	allowable mutual error of height size M in pairs	0.03	0.015	0.007	0.005	0.003
	allowable error of width size W2	±0.1	±0.05	$\begin{matrix} 0 \\ -0.05 \end{matrix}$	$\begin{matrix} 0 \\ -0.03 \end{matrix}$	$\begin{matrix} 0 \\ -0.02 \end{matrix}$
	allowable mutual error of width size W2 in pairs	0.03	0.02	0.01	0.007	0.005
GTK65 GTK85	allowable error of height size M	±0.08	±0.04	$\begin{matrix} 0 \\ -0.05 \end{matrix}$	$\begin{matrix} 0 \\ -0.04 \end{matrix}$	$\begin{matrix} 0 \\ -0.03 \end{matrix}$
	allowable mutual error of height size M in pairs	0.03	0.02	0.01	0.007	0.005
	allowable error of width size W2	±0.08	±0.04	$\begin{matrix} 0 \\ -0.05 \end{matrix}$	$\begin{matrix} 0 \\ -0.04 \end{matrix}$	$\begin{matrix} 0 \\ -0.03 \end{matrix}$
	allowable mutual error of width size W2 in pairs	0.03	0.02	0.01	0.007	0.005

Accuracy Specification ▶

Table 2



Rail Length		Running Paralleism Value (μm)				
Above	Below	N	H	P	SP	UP
0	315	9	6	3	2	1.5
315	399	11	8	4	2	1.5
400	499	13	9	5	2	1.5
500	629	16	11	6	2.5	1.5
630	799	18	12	7	3	2
800	1000	20	14	8	4	2
1001	1249	22	16	10	5	2.5
1250	1599	25	18	11	6	3
1600	1999	28	20	13	7	3.5
2000	2499	30	22	15	8	4
2500	2999	32	24	16	9	4.5
3000	3499	33	25	17	11	5
3500	4000	34	26	18	12	6

Allowable Statical Torque of GTK Series ▶

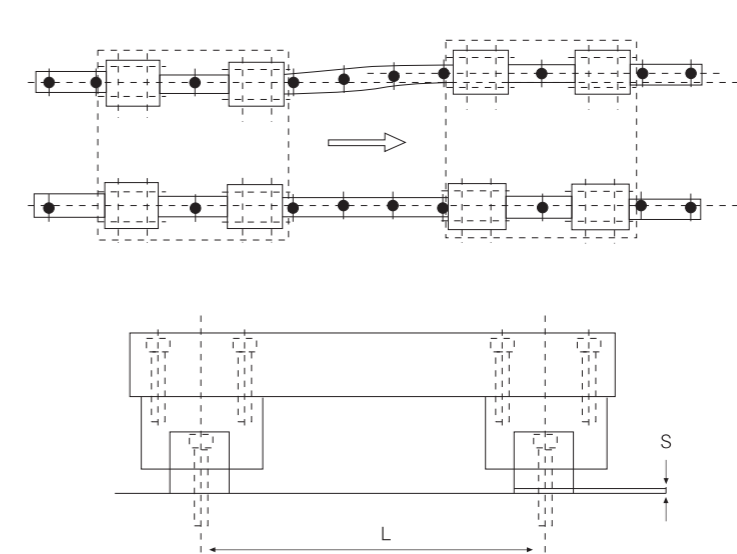
KN·m

Model	Direction	MA		MB		MC
		1 Block	2 Close blocks	1 Block	2 Close blocks	1 Block
GTK15		0.07	0.37	0.07	0.37	0.10
GTK20		0.16	0.82	0.16	0.82	0.23
GTK20L		0.27	1.4	0.27	1.4	0.31
GTK25		0.27	1.4	0.27	1.4	0.4
GTK25L		0.46	2.4	0.46	2.4	0.51
GTK30		0.43	2.3	0.43	2.3	0.65
GTK30L		0.73	3.7	0.73	3.7	0.86
GTK35		0.64	3.4	0.64	3.4	1.0
GTK35L		1.1	5.6	1.1	5.6	1.4
GTK45		1.3	6.9	1.3	6.9	2.1
GTK45L		2.1	10.9	2.1	10.9	2.8
GTK55		2.2	11.7	2.2	11.7	3.6
GTK55L		3.7	18.8	3.7	18.8	4.8
GTK65		4.2	21.0	4.2	21.0	6.6
GTK65L		7.2	35.8	7.2	35.8	8.9
GTK85		10.2	56.5	10.2	56.5	12.6
GTK85L		12.4	63.5	12.4	63.5	16.7

Installation Accuracy ▶

• The allowable error of linear guide installation

The block of GTK series has the ability to automatically adjust the center, even if the installation face has a little error, it can still have the smoothly linear motion according different pre-load (such as to meet the following allowable error range). This is the special advantages of GTK series linear guide products



Allowable error of parallelism of right and left μm

GTK	Pre-load	Moderate Preloading	Light preload	Normal
				N/M
15	-		18	25
20	18		20	25
25	20		22	30
30	27		30	40
35	30		35	50
45	35		40	60
55	45		50	70
65	55		60	80
85	70		75	90

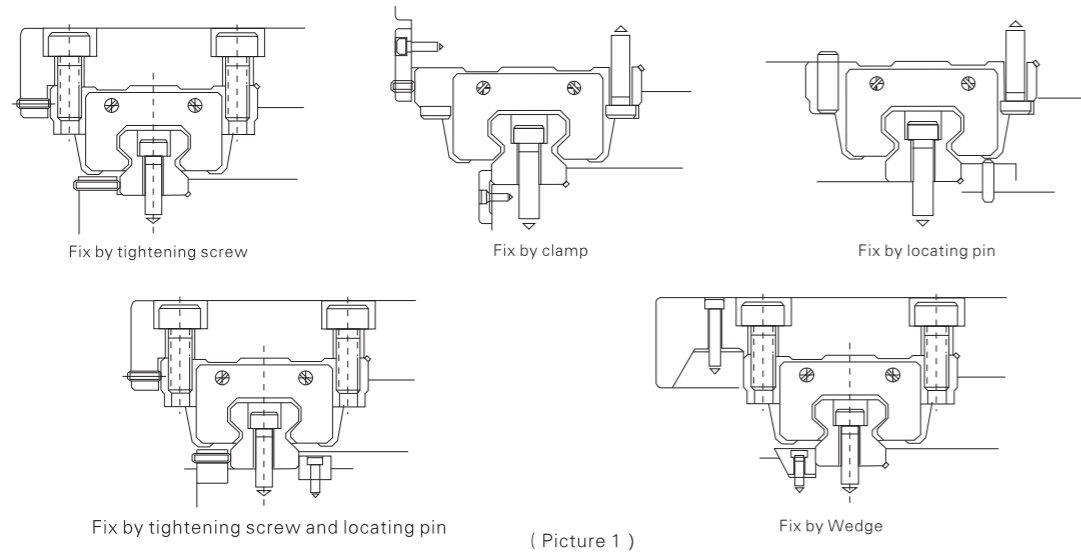
Allowable error of horizontal height of up and down μm

GTK	Pre-load	Moderate Preloading	Light preload	Normal
				N/M
15	-		85	130
20	50		85	130
25	70		85	130
30	90		110	170
35	120		150	210
45	140		170	250
55	170		210	300
65	200		250	350
85	240		290	400

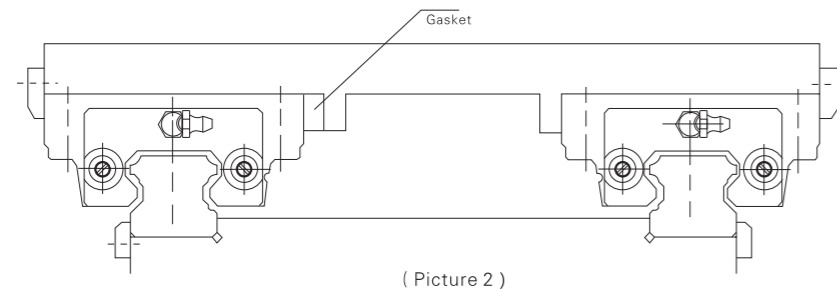
Note: when the distance of two rails is 500mm, the error allowable value is proportional to L.

Structure of Connective Datum of Linear Guide ▶

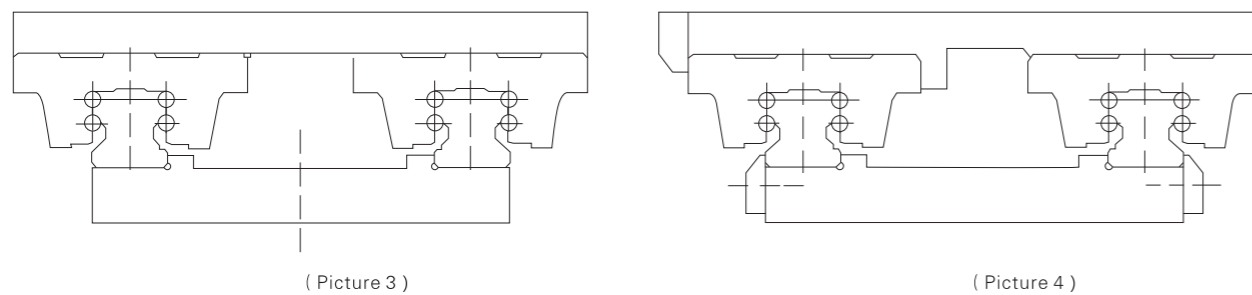
• Structure of Connective Datum of Linear Guide



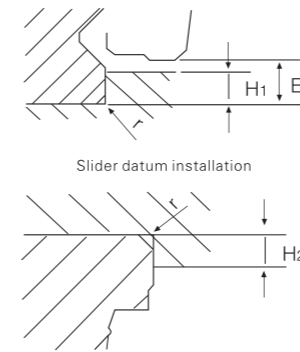
When install two rails on one surface, both of the rails and blocks should have the locating surface if the load type is impact load and requirement of the precision is high, as that shows in picture 1



Picture 3 and picture 4 is the normal installation method

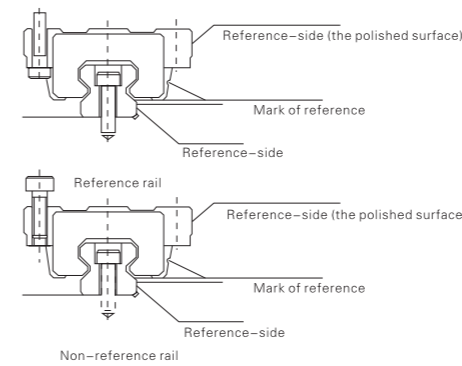


Height and Chamfering of Installation Platform ▶



First, When install the block and rail to lathe or work table, it should undercut a groove to avoid the block and rail interfere with the reference surface (table-10).

Second, know clearly about the reference-side when installation.



Model	Chamfer(r)	platform height(H1)	platform height(H2)	E
GTK15	≤0.3	3.5	4	4.5
GTK20	≤0.5	4	4.5	5
GTK25	≤0.5	5	6	6.5
GTK30	≤0.5	6	6	7
GTK35	≤0.5	7	6	10
GTK45	≤0.7	8	8	11
GTK55	≤0.7	11	8	13
GTK65	≤1.0	12	10	14
GTK85	≤1.0	13	12	16

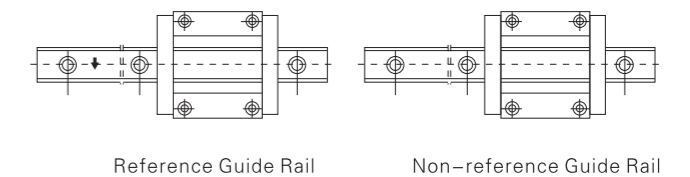
Installation and Adjustment of Linear Guide ▶

1 Installation and Use

Please Handling the products gently to avoid to influence of the precision of the linear guide. The block is not allowed to detach the rail or push back to the rail when it is over stroke. If the block need to dismantle from the rail because of the difficulty assembly, you can order the fake rail from us.(fake rail is a Auxiliary tools which has a smaller size than the guide rail. When dismantle the block, firstly joint the end of fake rail and guide rail, then push the block from the guide rail to fake rail. When the guide rail is assembly, push the block from the fake rail back to the guide rail, pay attention of the reference direction when do these steps)

2 Install Caution

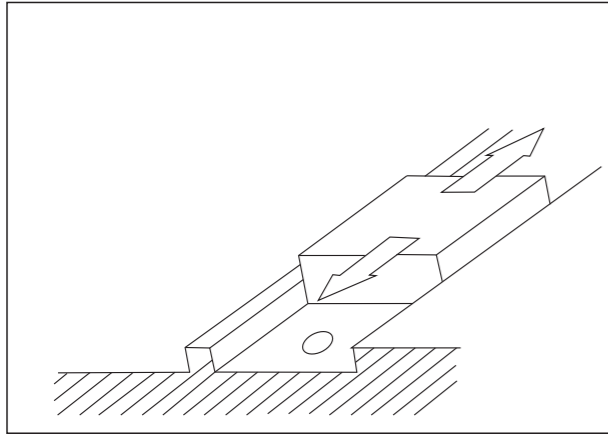
When install the products distinguish the reference guide rail and non-reference guide rail clearly(the reference guide rail has the reference mark and the block has a reference-side polished surface



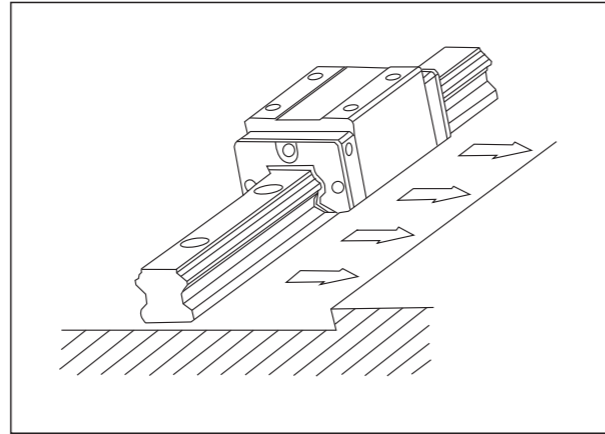
Installation and adjustment of Linear Guide ▶

3 Installation Step of Guideway

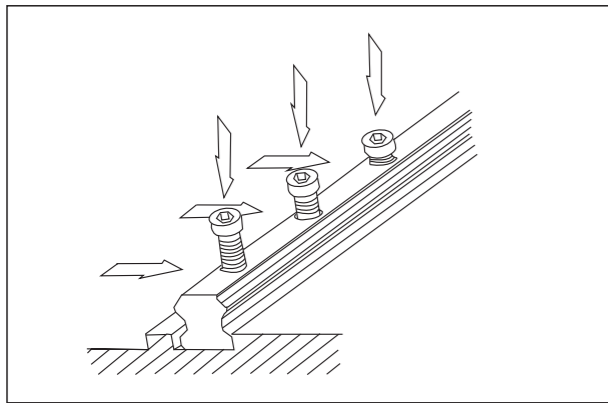
1 Check the mounting surface



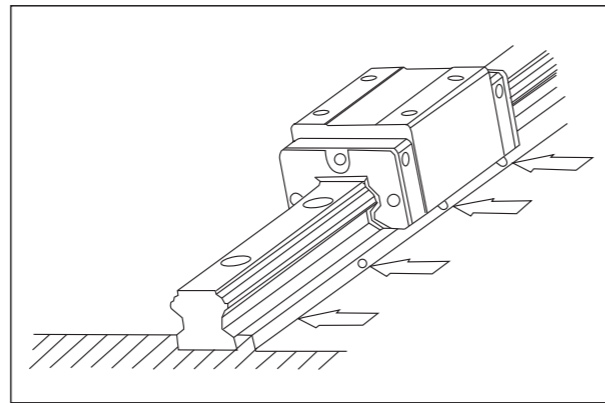
2 Set the reference-side of guideway opposite to the reference-side of installing step.



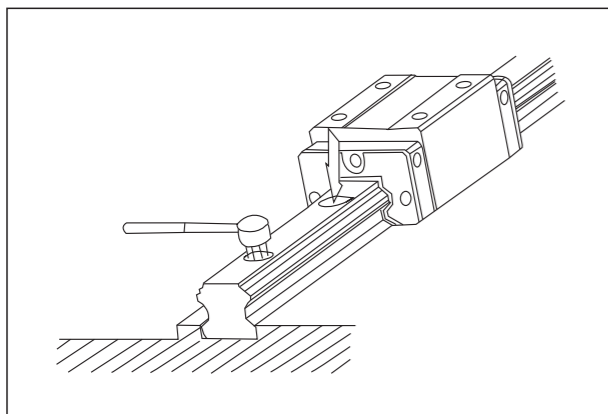
3 Check the position of the bolt hole, to determine the correct position



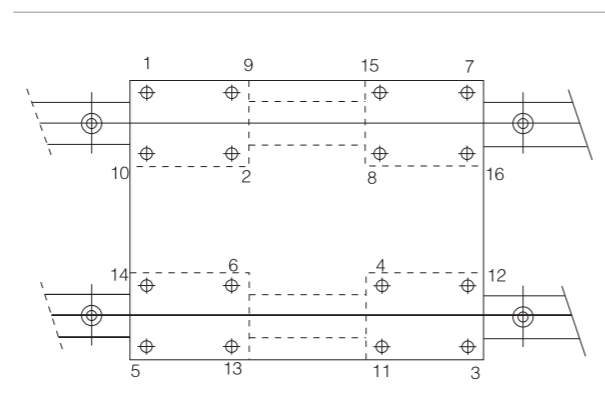
4 Preloading to fix the bolt, make the reference-side of guideway closely connect to the side of installing step



5 Finally screw down the bolt



6 Tightened the fastening screws of block in turn

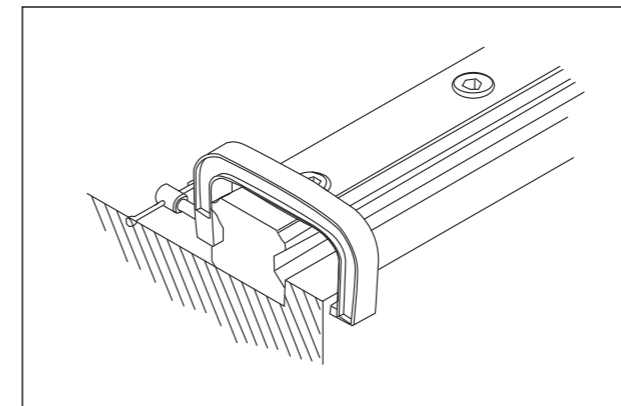


Installation and adjustment of Linear Guide ▶

4 Installation methods of reference linear rail (two ways for choose as following)

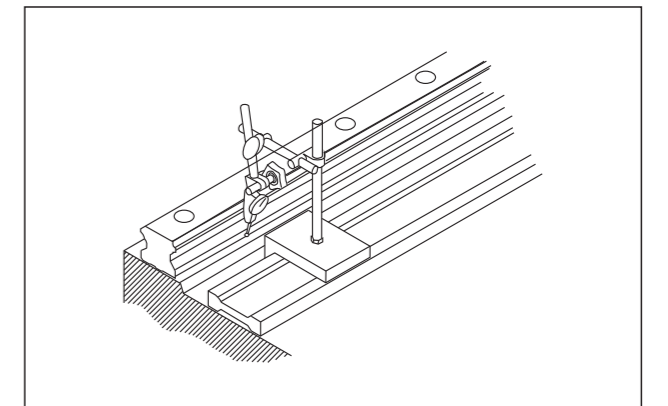
A.

To use a U-type grip holder to clamp the reference surface of rail and reference side surface of installation step, then use the fixed bolt to tighten the rail (tapping hole is suggested), it should fix in turn from one end to the other end.



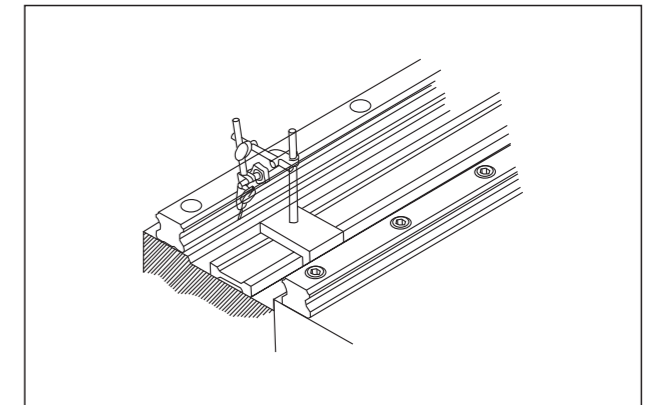
B.

When there is not installation step, first fixed one end of the rail, then according to the following picture, lean the gauge on the reference surface of the rail, adjust the linear accuracy from the gauge then fix the rail in turn.



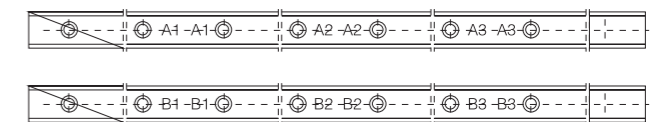
5 Installation Methods of Non-reference Linear Guide

As showed in the picture. Fix the Iron absorption meter onto the block. Read the parallelism and then fixed the non-reference rail in turn.



6 Distinction of the Lengthened Linear Guide Rail

When rail that need to joint to be lengthened, we will write the same capital on one set rail, and the continuous Arabic numerals to indicate the joint sequence, the joint end mark the same arabic number (as showed in picture)



LinearSlide Dustproof Accesories ▶

In the presence of dust and iron, it there is foreign matter in the linear motion system of the slider, it may cause abnormalwear inside the slider, shorten the service life and affect the smoothness of the linear motion of the slider. Measures to prevent the entry of foreign matter.

Dust-proof products are for the existence of dust, wood chips, iron and other impurities in the bad environment, the product configuration of a high degree of dust-proof dust-proof accessories: if customers in the above environment similar to the use of slides, When the dust is configured, add a seal code after the product slider type number.

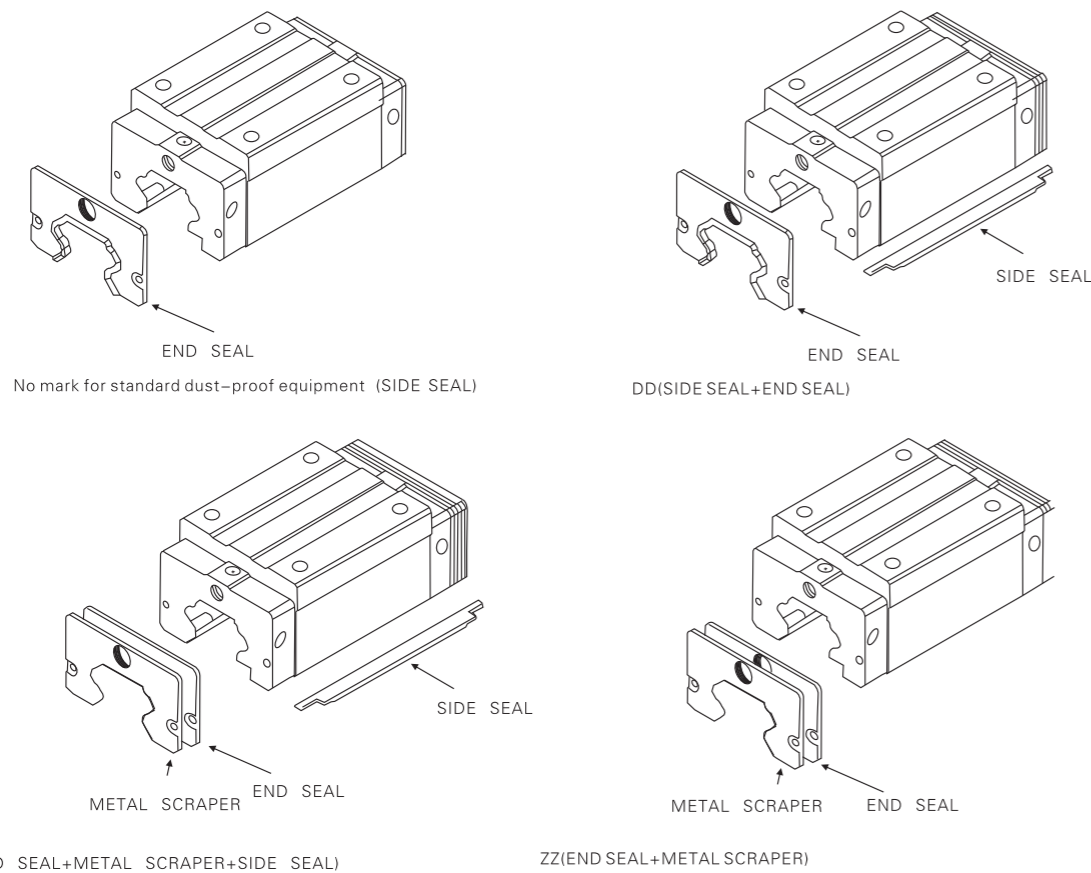
Dustresistance value ▶

GTK-type slider (internal lubricant), the average resistance of each dust-proof device, Please refer to the dust resistance table.

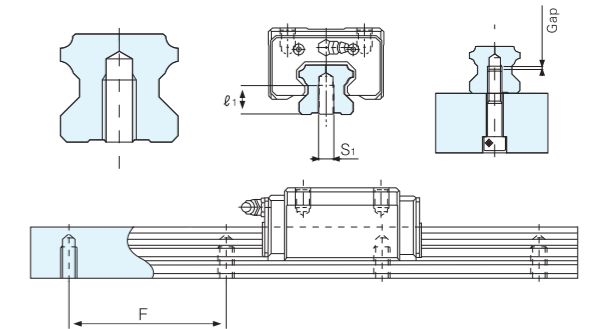
The bottom of the dust sheet resistance table unit:N

Nominal model	Maximum resistance value	Nominal model	Maximum resistance value
15	2.0	45	19.6
20	2.5	55	19.6
25	3.9	65	34.3
30	7.8	85	34.3
35	11.8		

Dust-proof equipment ▶



GTK Series Linear Guide with Bottom Installlation Thread Hole ▶



Model	S1	Effective depth of thread e1
GTK15	M5	8
GTK20	M6	10
GTK25	M6	12
GTK30	M8	15
GTK35	M8	17
GTK45	M12	24
GTK55	M14	24
GTK65	M20	30

GTK series linear guide include the follow type linear rail which is processed the threaded installation holes at the bottom of the rail. It is more suitable for that need to install the rolling linear guide from the bottom or improve the dustproof performance.

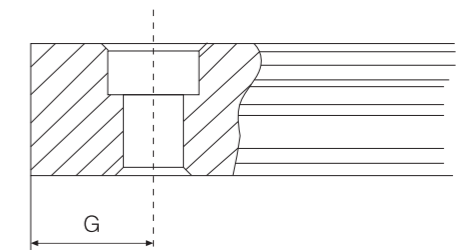
When select the length of the bolt, the end of the bolt and the bottom of the thread (the effective depth of thread) need to have a gap of 2 to 5 mm (refer to the above picture)

Standard pitch of thread F size please refer to the table of page A15 -Pitch F

Specification of G Figure ▶

Recommend Range of G

Too small for G value will affect to machine the flat wiper hole of the rail end
Too big for G value will affect the stability and accuracy of the rail end
According to the actual usage, recommend the following dimensions to the user.
dimensions

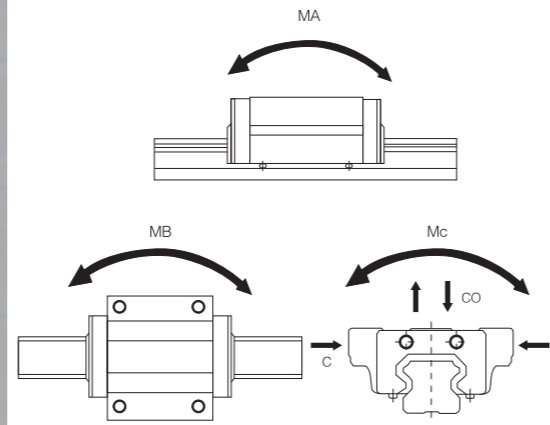


G	Min size	Max size	Recommend size
TK15	6	30	20
TK20	8	30	20
TK25	9	30	20
TK30	11	40	20
TK35	11	40	20
TK45	14	50	25
TK55	16	60	30
TK65	16	75	35
TK85	21	90	45

Specification of GTK Sereis(High Assembly) ▶

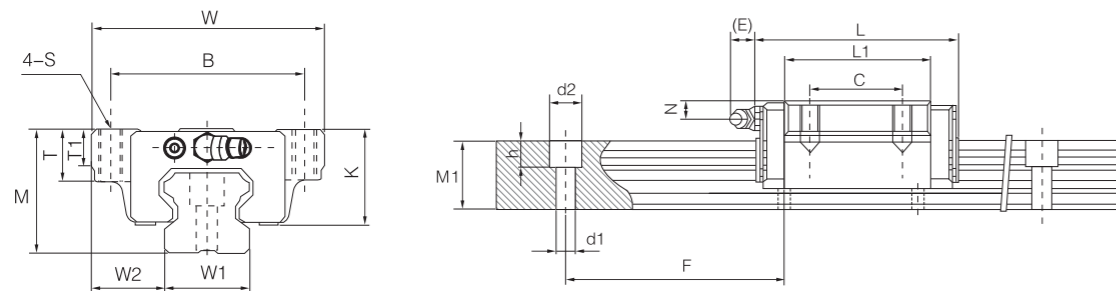


• GTK-F GTK-FL

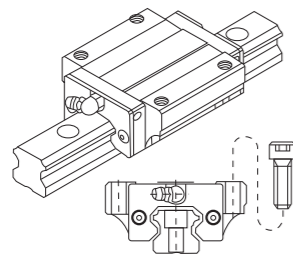


Note: Specification of MA, MB, MC refer to page A06

• GTK-F GTK-FL

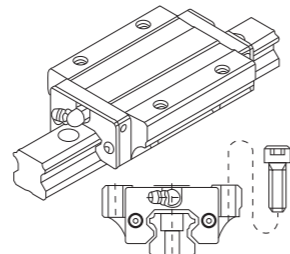


• GTK-F



The flange part is produced with the threaded installation hole which can use the long screw bolt

• GTK-FL



SFme cross section to GTK-F, lengthened the block's length, enhance the rFted load capacity

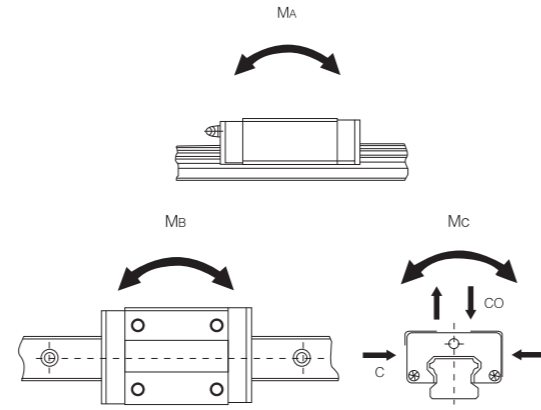
Model	Physical Dimension			Block Dimension									Grease Nipple Specification
	Height M	Width W	Length L	B	C	S	L1	T	T1	K	N	E	
GTK15F	24	47	61.8	38	30	M5	39.8	8.5	8.5	20	4.3	5.5	G-M4
GTK20F	30	63	77.4	53	40	M6	50.8	10	10	26	5	12	G-M6
GTK20FL	30	63	93.4	53	40	M6	66.8	10	10	26	5	12	G-M6
GTK25F	36	70	83.5	57	45	M8	59.5	16	12	30.5	6	12	G-M6
GTK25FL	36	70	102.6	57	45	M8	78.6	16	12	30.5	6	12	G-M6
GTK30F	42	90	100.5	72	52	M10	70.5	18	12	35	7	12	G-M6
GTK30FL	42	90	123	72	52	M10	93	18	12	35	7	12	G-M6
GTK35F	48	100	113.9	82	62	M10	80.5	20	14	39.5	8	12	G-M6
GTK35FL	48	100	139.2	82	62	M10	105.8	20	14	39.5	8	12	G-M6
GTK45F	60	120	138.5	100	80	M12	97.7	22	15	51	10	16	G-PT1/8
GTK45FL	60	120	171	100	80	M12	129.8	22	15	51	10	16	G-PT1/8
GTK55F	70	140	163	116	95	M14	118	29	15	57	11	16	G-PT1/8
GTK55FL	70	140	201	116	95	M14	156.1	29	15	57	11	16	G-PT1/8
GTK65F	90	170	186	142	110	M16	147	37	23	76	19	16	G-PT1/8
GTK65FL	90	170	246	142	110	M16	206.5	37	23	76	19	16	G-PT1/8
GTK85F	110	215	247	185	140	M20	178.6	55	30	94	23	16	G-PT1/8
GTK85FL	110	215	303	185	140	M20	236	55	30	94	23	16	G-PT1/8

Model	Rail Dimension					Basic Load Rating		Weight	
	Width W1	W2	Height M1	Pitch F	d1 × d2 × h	c (kN)	Co (kN)	Block(kg)	Rail(kg/m)
GTK15F	15	16	15	60	4.5 × 7.5 × 5.3	8.33	13.5	0.19	1.5
GTK20F	20	21.5	18	60	6 × 9.5 × 8.5	13.8	23.8	0.42	2.3
GTK20FL	20	21.5	18	60	6 × 9.5 × 8.5	21.3	31.8	0.53	2.3
GTK25F	23	23.5	22	60	7 × 11 × 9	19.9	34.4	0.64	3.3
GTK25FL	23	23.5	22	60	7 × 11 × 9	27.2	45.9	0.83	3.3
GTK30F	28	31	26	80	9 × 14 × 12	28	46.8	1.11	4.8
GTK30FL	28	31	26	80	9 × 14 × 12	37.3	62.5	1.46	4.8
GTK35F	34	33	29	80	9 × 14 × 12	37.3	61.1	1.62	6.6
GTK35FL	34	33	29	80	9 × 14 × 12	50.2	81.5	2.08	6.6
GTK45F	45	37.5	38	105	14 × 20 × 17	60	95.6	2.88	11.0
GTK45FL	45	37.5	38	105	14 × 20 × 17	80.4	127	3.3	11.0
GTK55F	53	43.5	44	120	16 × 23 × 20	88.5	137	4.5	15.1
GTK55FL	53	43.5	44	120	16 × 23 × 20	119	183	5.7	15.1
GTK65F	63	53.5	53	150	18 × 26 × 22	141	215	8.5	22.5
GTK65FL	63	53.5	53	150	18 × 26 × 22	192	286	10.7	22.5
GTK85F	85	65	65	180	24 × 35 × 28	210	310	17.0	35.2
GTK85FL	85	65	65	180	24 × 35 × 28	282	412	23.0	35.2

Specification of GTK Sereis (High Assembly) ▶

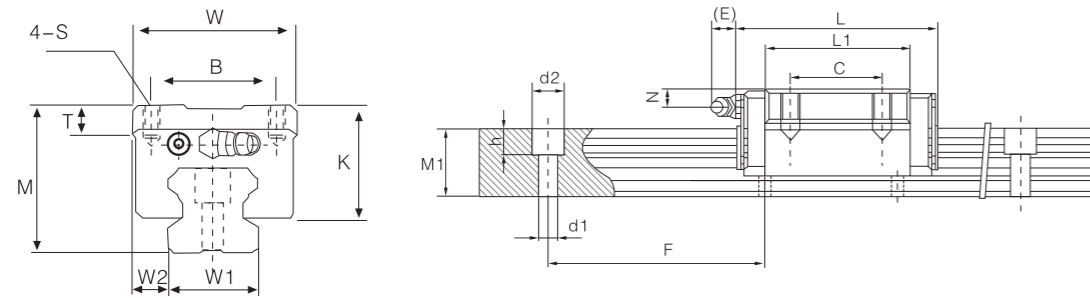


• GTK-S GTK-SL

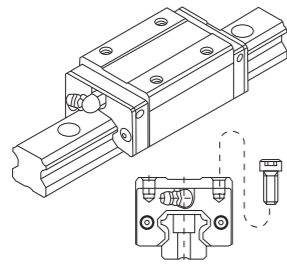


Note: Specification of MA, MB, MC refer to page A06

• GTK-S GTK-SL

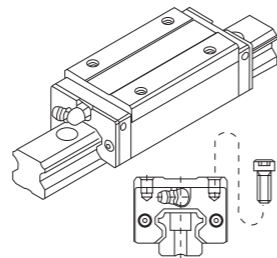


• GTK-S



GTK-S Type Block reduce the width of the block which is suitable for the compact structure

• GTK-SL



Same cross section to GTK-S, lengthened the block's length, enhance the rated load capacity

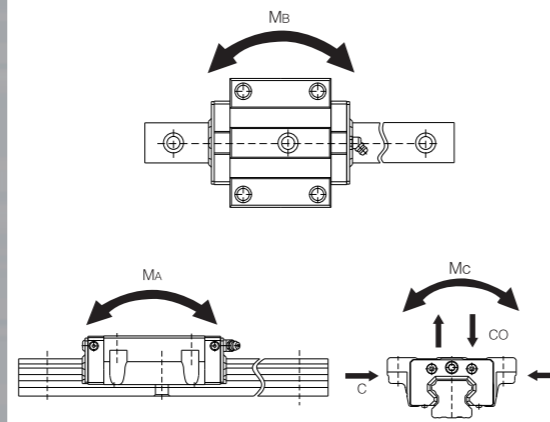
Model	Physical Dimension			Block Dimension								Grease Nipple Specification
	Height M	Width W	Length L	B	C	S	L1	T	K	N	E	
GTK15S	28	34	61.8	26	26	M4 × 0.7 × 5	39.8	6	24	8.3	5.5	G-M4
GTK20S	30	44	77.4	32	36	M5 × 0.8 × 6	50.8	8	26	5	12	G-M6
GTK20SL	30	44	93.4	32	50	M5 × 0.8 × 6	66.8	8	26	5	12	G-M6
GTK25S	40	48	83.5	35	35	M6 × 8	59.5	10	34.5	10	12	G-M6
GTK25SL	40	48	102.6	35	50	M6 × 8	78.6	10	34.5	10	12	G-M6
GTK30S	45	60	100.5	40	40	M8 × 10	70.5	12	38	10	12	G-M6
GTK30SL	45	60	123	40	60	M8 × 10	93	12	38	10	12	G-M6
GTK35S	55	70	113.9	50	50	M8 × 12	80.5	12	47.5	15	12	G-M6
GTK35SL	55	70	139.2	50	72	M8 × 12	105.8	12	47.5	15	12	G-M6
GTK45S	70	86	138.5	60	60	M10 × 17	97.7	15	61	20	16	G-PT1/8
GTK45SL	70	86	171.2	60	80	M10 × 17	128.8	15	61	20	16	G-PT1/8
GTK55S	80	100	163	75	75	M12 × 18	118	18	67	21	16	G-PT1/8
GTK55SL	80	100	201	75	95	M12 × 18	156.1	18	67	21	16	G-PT1/8
GTK65S	90	126	186	76	70	M16 × 20	147	23	76	19	16	G-PT1/8
GTK65SL	90	126	246	76	120	M16 × 20	206.5	23	76	19	16	G-PT1/8
GTK85S	110	156	247	100	80	M18 × 25	178.6	30	94	23	16	G-PT1/8
GTK85SL	110	156	303	100	140	M18 × 25	236	30	94	23	16	G-PT1/8

Model	Rail Dimension					Basic Load Rating		Weight	
	Width W1	W2	Height M1	Length of pitch F	d1 × d2 × h	c (kN)	Co (kN)	Block (kg)	Rail (kg/m)
GTK15S	15	9.5	15	60	4.5 × 7.5 × 5.3	8.33	13.5	0.2	1.5
GTK20S	20	12	18	60	6 × 9.5 × 8.5	13.8	23.8	0.34	2.3
GTK20SL	20	12	18	60	6 × 9.5 × 8.5	21.3	31.8	0.43	2.3
GTK25S	23	12.5	22	60	7 × 11 × 9	19.9	34.4	0.56	3.3
GTK25SL	23	12.5	22	60	7 × 11 × 9	27.2	45.9	0.73	3.3
GTK30S	28	16	26	80	9 × 14 × 12	28	46.8	0.91	4.8
GTK30SL	28	16	26	80	9 × 14 × 12	37.3	62.5	1.18	4.8
GTK35S	34	18	29	80	9 × 14 × 12	37.3	61.1	1.54	6.6
GTK35SL	34	18	29	80	9 × 14 × 12	50.2	81.5	1.99	6.6
GTK45S	45	20.5	38	105	14 × 20 × 17	60	95.6	2.92	11.0
GTK45SL	45	20.5	38	105	14 × 20 × 17	80.4	127	3.1	11.0
GTK55S	53	23.5	44	120	16 × 23 × 20	88.5	137	4.3	15.1
GTK55SL	53	23.5	44	120	16 × 23 × 20	119	183	5.4	15.1
GTK65S	63	31.5	53	150	18 × 26 × 22	141	215	7.3	22.5
GTK65SL	63	31.5	53	150	18 × 26 × 22	192	286	9.3	22.5
GTK85S	85	35.5	65	180	24 × 35 × 28	210	310	13.0	35.2
GTK85SL	85	35.5	65	180	24 × 35 × 28	282	412	16.0	35.2

Specification of GTK Sereis (High Assembly) ▶

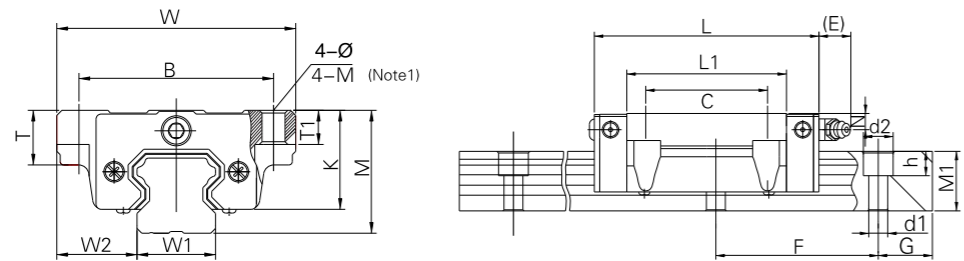


• GTK-G GTK-FGL GTK-FG

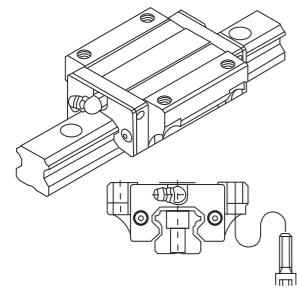


Note: Specification of MA, MB, MC refer to page A06

• GTK-G GTK-FGL GTK-FG

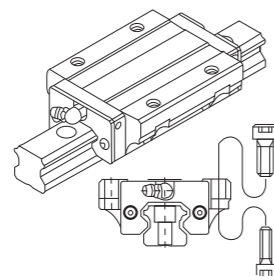


• GTK-G



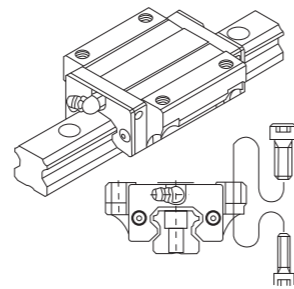
With the unthreaded installation hole, can install from the bottom of the block when bolt can't run through the operating platform from the above

• GTK-FGL



Same cross section to GTK-FG, lengthened the block's length, enhance the rated load capacity, and can install from the both side of block

• GTK-FG



GTK-G can install from the bottom to the top and the flange hole has no thread; GTK-FG can install bidirectionally

Model	Physical Dimension			Block Dimension										Grease Nipple Specification
	Height M	Width W	Length L	B	C	Ø	M	L1	T	T1	K	N	E	
GTK15G/ GTK15FG	24	47	61.8	38	30	4.5	M5	39.8	8.5	7	20	4.3	5.5	G-M4
GTK20G/ GTK20FG	30	63	77.4	53	40	6	M6	50.8	10	10	26	5	12	G-M6
GTK20FGL	30	63	93.4	53	40	6	M6	66.8	10	10	26	5	12	G-M6
GTK25G/ GTK25FG	36	70	83.5	57	45	7	M8	59.5	16	10	30.5	6	12	G-M6
GTK25FGL	36	70	102.6	57	45	7	M8	78.6	16	10	30.5	6	12	G-M6
GTK30G/ GTK30FG	42	90	100.5	72	52	9	M10	70.5	18	10	35	7	12	G-M6
GTK30FGL	42	90	123	72	52	9	M10	93	18	10	35	7	12	G-M6
GTK35G/ GTK35FG	48	100	113.9	82	62	9	M10	80.5	20	13	39.5	8	12	G-M6
GTK35FGL	48	100	139.2	82	62	9	M10	105.8	20	13	39.5	8	12	G-M6
GTK45G/ GTK45FG	60	120	138.5	100	80	11	M12	97.7	22	15	51	10	16	G-PT1/8
GTK45FGL	60	120	171	100	80	11	M12	129.8	22	15	51	10	16	G-PT1/8
GTK55G/ GTK55FG	70	140	163	116	95	14	M14	118	29	17	57	11	16	G-PT1/8
GTK55FGL	70	140	201	116	95	14	M14	156.1	29	17	57	11	16	G-PT1/8
GTK65G/ GTK65FG	90	170	186	142	110	16	M16	147	37	23	76	19	16	G-PT1/8
GTK65FGL	90	170	246	142	110	16	M16	206.5	37	23	76	19	16	G-PT1/8
GTK85G/ GTK85FG	110	215	247	185	140	18	M20	178.6	55	30	94	23	16	G-PT1/8
GTK85FGL	110	215	303	185	140	18	M20	236	55	30	94	23	16	G-PT1/8

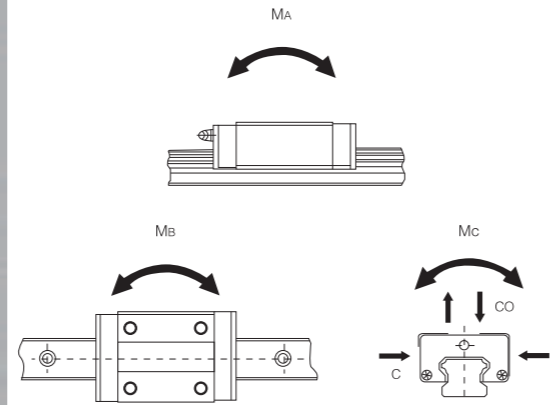
Model	Rail Dimension					Basic Load Rating		Weight	
	Width W1	W2	Height M1	Length of pitch F	d1 × d2 × h	C (KN)	Co (KN)	Block (kg)	Rail (kg/m)
GTK15G/ GTK15FG	15	16	15	60	4.5 × 7.5 × 5.3	8.33	13.5	0.19	1.5
GTK20G/ GTK20FG	20	21.5	18	60	6 × 9.5 × 8.5	13.8	23.8	0.42	2.3
GTK20FGL	20	21.5	18	60	6 × 9.5 × 8.5	21.3	31.8	0.53	2.3
GTK25G/ GTK25FG	23	23.5	22	60	7 × 11 × 9	19.9	34.4	0.64	3.3
GTK25FGL	23	23.5	22	60	7 × 11 × 9	27.2	45.9	0.83	3.3
GTK30G/ GTK30FG	28	31	26	80	9 × 14 × 12	28	46.8	1.11	4.8
GTK30FGL	28	31	26	80	9 × 14 × 12	37.3	62.5	1.46	4.8
GTK35G/ GTK35FG	34	33	29	80	9 × 14 × 12	37.3	61.1	1.62	6.6
GTK35FGL	34	33	29	80	9 × 14 × 12	50.2	81.5	2.08	6.6
GTK45G/ GTK45FG	45	37.5	38	105	14 × 20 × 17	60	95.6	2.88	11
GTK45FGL	45	37.5	38	105	14 × 20 × 17	80.4	127	3.3	11
GTK55G/ GTK55FG	53	43.5	44	120	16 × 23 × 20	88.5	137	4.5	15.1
GTK55FGL	53	43.5	44	120	16 × 23 × 20	119	183	5.7	15.1
GTK65G/ GTK65FG	63	53.5	53	150	18 × 26 × 22	141	215	8.5	22.5
GTK65FGL	63	53.5	53	150	18 × 26 × 22	192	286	10.7	22.5
GTK85G/ GTK85FG	85	65	65	180	24 × 35 × 28	210	310	17.0	35.2
GTK85FGL	85	65	65	180	24 × 35 × 28	282	412	23.0	35.2

Note: GTK-G means block with flange unthreaded type, the diameter of thread hole reference to Ø, GTK-FG/ GTK-FGL means block with flange threaded type, the bolt can install from both side of block, the size of thread hole reference to M.

Specification of DTK Sereis (Low Assembly) ▶

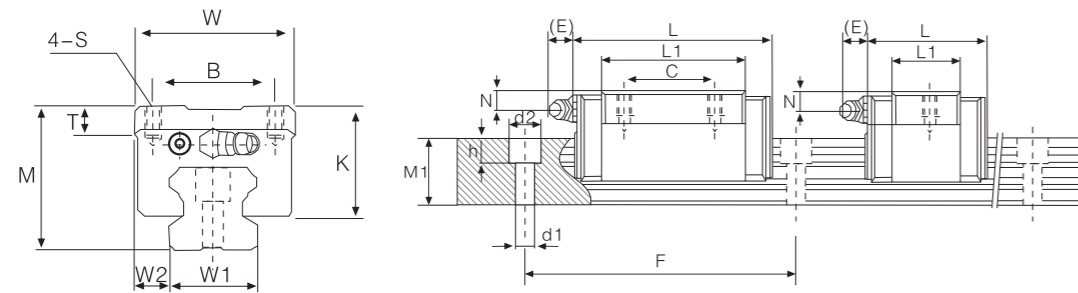


• DTK-S DTK-SS

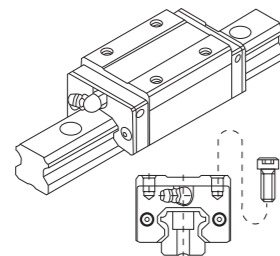


Note: Specification of MA, MB, MC refer to page A06

• DTK-S DTK-SS

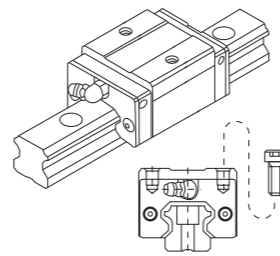


• DTK-S



Compared with GTK-S, DTK-S reduces the combined height, is used in the specific condition which has the height restriction.

• DTK-SS



DTK-SS reduce the length of the block can be used in the restriction of both height and length

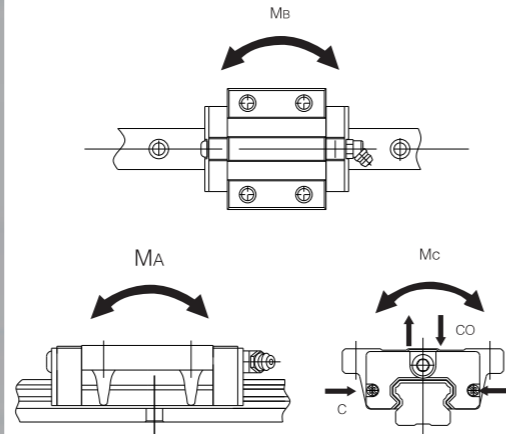
Model	Physical Dimension			Block Dimension								Grease Nipple Specification
	Height M	Width W	Length L	B	C	S	L1	T	K	N	E	
DTK15S	24	34	56.8	26	26	M4X6	39.8	6	19.5	4.3	5.5	G-M4
DTK15SS	24	34	40.1	26	-	M4X6	23.1	6	19.5	4.3	5.5	G-M4
DTK20S	28	42	70.1	32	32	M5X7	48.1	8	22	5	12	G-M6
DTK20SS	28	42	51	32	-	M5X7	29	8	22	5	12	G-M6
DTK25S	33	48	83	35	35	M6X9	59	8	26	5	12	G-M6
DTK25SS	33	48	59.5	35	-	M6X9	35.5	8	26	5	12	G-M6
DTK30S	42	60	98.1	40	40	M8X12	70.1	10	32	7	12	G-M6
DTK30SS	42	60	69.5	40	-	M8X12	41.5	10	32	7	12	G-M6
DTK35S	48	70	108	50	50	M8X12	78	12	37	8	12	G-M6
DTK35SS	48	70	75	50	-	M8X12	45	12	37	8	12	G-M6

Model	Rail Dimension							Weight	
	W1	W2	M1	F	di x d2 x h	C(KN)	Co(KN)	Block(kg)	Rail(kg/m)
DTK15S	15	9.5	12.5	60	4.5x7.5x5.3	7.83	16.19	0.15	1.25
DTK15SS	15	9.5	12.5	60	4.5x7.5x5.3	5.35	9.4	0.09	1.25
DTK20S	20	11	15.5	60	6x9.5x8.5	10.31	21.13	0.24	2.08
DTK20SS	20	11	15.5	60	6x9.5x8.5	7.23	12.74	0.15	2.08
DTK25S	23	12.5	18	60	7x11x9	10.27	32.4	0.41	2.67
DTK25SS	23	12.5	18	60	7x11x9	11.4	19.5	0.25	2.67
DTK30S	28	16	23	80	9x14x12	23.7	47.46	0.76	4.35
DTK30SS	28	16	23	80	9x14x12	16.42	28.1	0.45	4.35
DTK35S	34	18	27.5	80	9x14x12	33.35	64.84	1.13	6.14
DTK35SS	34	18	27.5	80	9x14x12	22.6	37.38	0.66	6.14

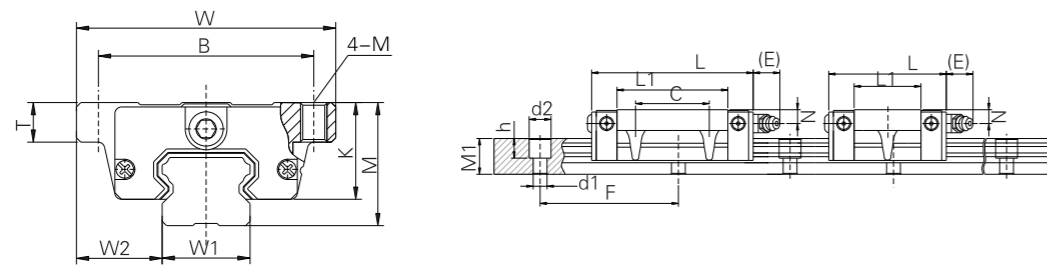
Specification of DTK Sereis (Low Assembly) ▶



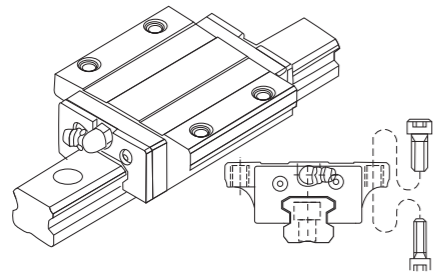
• DTK-F DTK-FS



• DTK-F DTK-FS

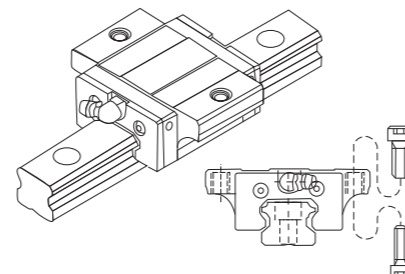


• DTK-F



Compared with GTK-F, DTK-F reduces the combined height, is used in the specific condition which has the height restriction.

• DTK-FS



DTK-FS reduce the length of the block can be used in the restriction of both height and length.

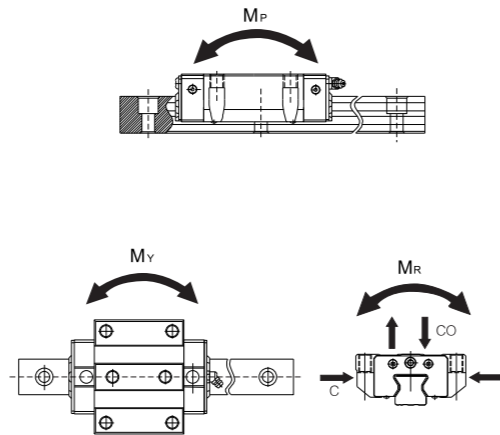
Model	Physical Dimension			Block Dimension								Grease Nipple Specification
	Height M	Width W	Length L	B	C	M	L1	T	K	N	E	
DTK15F	24	52	56.8	41	26	M5	39.8	7.2	19.5	5.5	5.5	G-M4
DTK15FS	24	52	40.1	41	-	M5	23.1	7.2	19.5	5.5	5.5	G-M4
DTK20F	28	59	70.1	49	32	M6	48.1	9	22	6	12	G-M6
DTK20FS	28	59	51	49	-	M6	29	9	22	6	12	G-M6
DTK25F	33	73	83	60	35	M8	59	11	26	8	12	G-M6
DTK25FS	33	73	59.5	60	-	M8	35.5	11	26	8	12	G-M6
DTK30F	42	90	98.1	72	40	M10	70.1	11	32	8	12	G-M6
DTK30FS	42	90	69.5	72	-	M10	41.5	11	32	8	12	G-M6
DTK35F	48	100	108	82	50	M10	78	14	37	8.5	12	G-M6
DTK35FS	48	100	75	82	-	M10	45	14	37	8.5	12	G-M6

Model	Rail Dimension					Basic load ratings		Weight	
	Width W1	W2	Width M1	Pitch F	di x d2 x h	C(KN)	Co(KN)	Block(kg)	Rail(kg/m)
DTK15F	15	18.5	12.5	60	4.5x7.5x5.3	7.83	16.19	0.21	1.25
DTK15FS	15	18.5	12.5	60	4.5x7.5x5.3	5.35	9.4	0.12	1.25
DTK20F	20	19.5	15.5	60	6x9.5x8.5	10.31	21.13	0.32	2.08
DTK20FS	20	19.5	15.5	60	6x9.5x8.5	7.23	12.74	0.19	2.08
DTK25F	23	25	18	60	7x11x9	16.27	32.4	0.59	2.67
DTK25FS	23	25	18	60	7x11x9	11.4	19.5	0.35	2.67
DTK30F	28	31	23	80	9x14x12	23.7	47.46	1.04	4.35
DTK30FS	28	31	23	80	9x14x12	16.42	28.1	0.62	4.35
DTK35F	34	33	27.5	80	9x14x12	33.35	64.84	1.45	6.14
DTK35FS	34	33	27.5	80	9x14x12	22.6	37.38	0.84	6.14

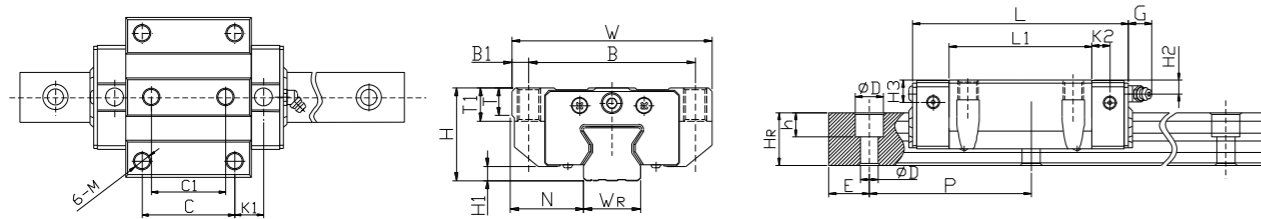
Specification of ZTK Sereis (Roller Type) ▶



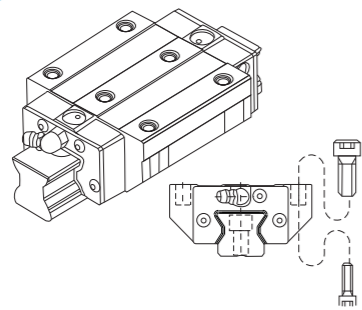
• ZTK-FG ZTK-FGL



• ZTK-FG ZTK-FGL

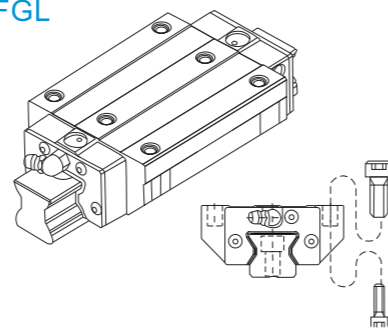


• ZTK-FG



Can install from the upside of block, can also install from the bottom of the block when bolt can't run through the operating platform

• ZTK-FGL

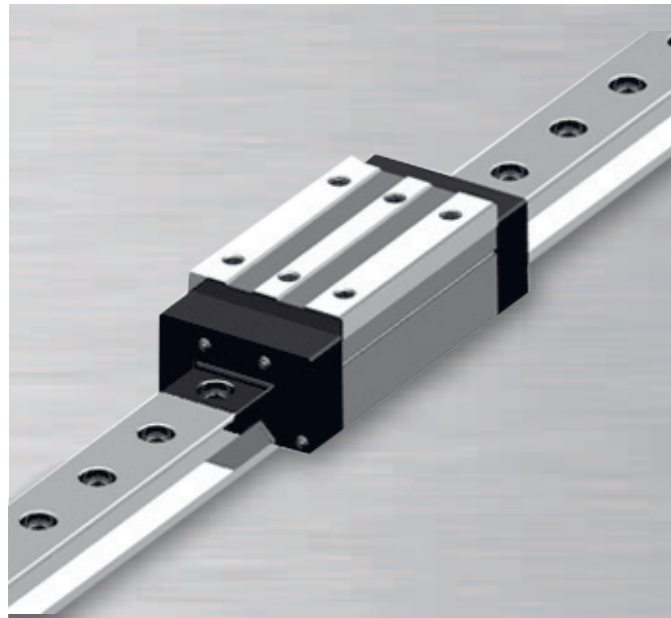


Same cross section to ZTK-FG, lengthened the block's length, increase the quantity of roller, enhance the rated load capacity

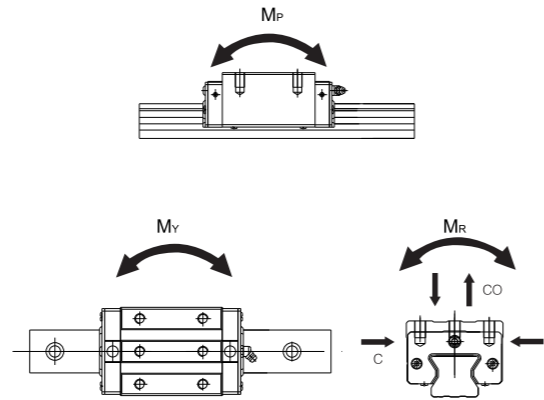
Model	Component Dimension								Slider Dimensions										Grease Nipple Specification
	H	H1	N	W	B	B1	C	C1	L1	L	K1	K2	G	M	T	T1	H2	H3	
ZTK20FG	30	5	21.5	63	53	5	40	35	57.5	86	13.8	6	5.3	M6	8	10	4.3	4.3	G-M6
ZTK20FGL									77.5	106	12.8								
ZTK25FG	36	5.5	23.5	70	57	6.5	45	40	64.5	97.9	15.75	7.25	12	M8	9.5	10	6.2	6	G-M6
ZTK25FGL									81	114.4	24								
ZTK30FG	42	6	31	90	72	9	52	44	71	109.8	17.5	8	12	M10	9.5	10	6.5	7.3	G-M6
ZTK30FGL									93	131.8	28.5								
ZTK35FG	48	6.5	33	100	82	9	62	52	79	124	16.5	10	12	M10	12	13	9	12.6	G-M6
ZTK35FGL									106.5	151.5	30.25								
ZTK45FG	60	8	37.5	120	100	10	80	60	106	153.2	21	10	12.9	M12	14	15	10	14	G-PT1/8
ZTK45FGL									139.8	187	37.9								
ZTK55FG	70	10	43.5	140	116	12	95	70	125.5	183.7	27.75	12.5	12.9	M14	16	17	12	17.5	G-PT1/8
ZTK55FGL									173.8	232	51.9								
ZTK65FG	90	12	53.5	170	142	14	110	82	160	232	40.8	15.8	12.9	M16	22	23	15	15	G-PT1/8
ZTK65FGL									223	295	72.3								

Model	Rail Dimensions (mm)							Tightening Bolt of Rail (mm)	Basic Load Rating		Allowable Static Torque			Weight	
	WR	Hr	D	h	d	P	E		C(KN)	Co(KN)	MR KN-m	MP KN-m	MY KN-m	Block(kg)	Rail(kg/m)
ZTK20FG	20	21	9.5	8.5	6	30	20	M5X20	21.3	46.7	0.647	0.46	0.46	0.44	2.76
ZTK20FGL									26.9	63	0.872	0.837	0.837	0.62	
ZTK25FG	23	23.6	11	9	7	30	20	M6X20	27.7	57.1	0.758	0.605	0.605	0.67	3.08
ZTK25FGL									33.9	73.4	0.975	0.991	0.991	0.86	
ZTK30FG	28	28	14	12	9	40	20	M8X25	39.1	82.1	1.445	1.06	1.06	1.06	4.41
ZTK30FGL									48.1	105	1.846	1.712	1.712	1.42	
ZTK35FG	34	30.2	14	12	9	40	20	M8X25	57.9	105.2	2.17	1.44	1.44	1.61	6.06
ZTK35FGL									73.1	142	2.93	2.6	2.6	2.21	
ZTK45FG	45	38	20	17	14	52.5	22.5	M12X35	92.6	178.8	4.52	3.05	3.05	3.22	9.97
ZTK45FGL									116	230.9	6.33	5.47	5.47	4.41	
ZTK55FG	53	44	23	20	16	60	30	M14X45	130.5	252	8.01	5.4	5.4	5.18	13.98
ZTK55FGL									167.8	348	11.15	10.25	10.25	7.34	
ZTK65FG	63	53	26	22	18	75	35	M16X50	213	411.6	16.2	11.59	11.59	11.04	20.22
ZTK65FGL									275.3	572.7	22.55	22.17	22.17	15.75	

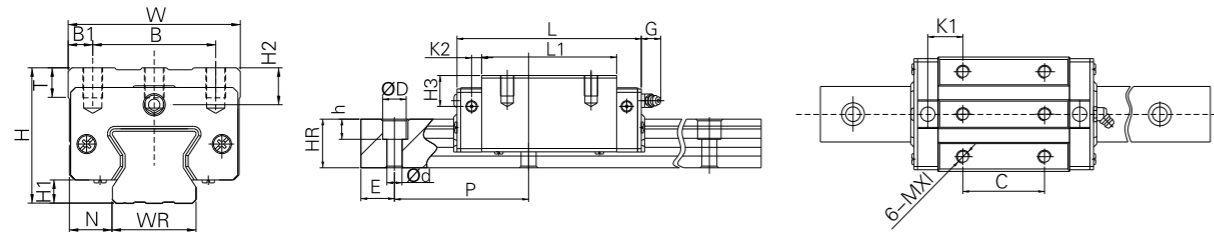
Specification of ZTK Sereis (Roller Type) ▶



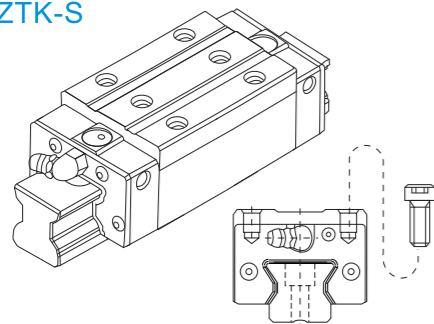
• ZTK-S ZTK-SL



• ZTK-S ZTK-SL

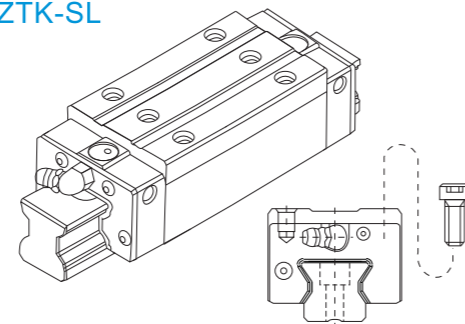


• ZTK-S



Reduce the width of the block; can install from the upside of the block

• ZTK-SL

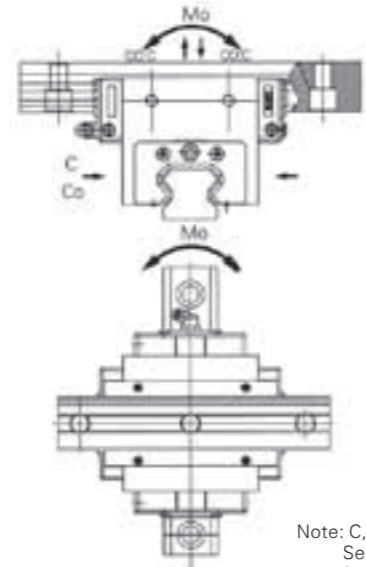


Same cross section to ZTK-S, lengthened the block's length, increase the quantity of roller, enhance the rated load capacity

Model	Component Dimension						Slider Dimensions										Grease Nipple Specification
	H	H1	N	W	B	B1	C	L1	L	K1	K2	G	MXL	T	H2	H3	
ZTK20S	34	5	12	44	32	6	36	57.5	86	15.8	6	5.3	M5X8	8	8.3	8.3	G-M6
ZTK20SL							50	77.5	106	18.8							
ZTK25S	40	5.5	12.5	48	35	6.5	35	64.5	97.9	20.75	7.25	12	M6X8	9.5	10.2	10	G-M6
ZTK25SL							50	81	114.4	21.5							
ZTK30S	45	6	16	60	40	10	40	71	109.8	23.5	8	12	M8X10	9.5	9.5	10.3	G-M6
ZTK30SL							60	93	131.8	24.5							
ZTK35S	55	6.5	18	70	50	10	50	79	124	22.5	10	12	M8X12	12	16	19.6	G-M6
ZTK35SL							72	106.5	151.5	25.5							
ZTK45S	70	8	20.5	86	60	13	60	106	153.2	31	10	12.9	M10X17	16	20	24	G-PT1/8
ZTK45SL							80	139.8	187	37.9							
ZTK55S	80	10	23.5	100	75	12.5	75	125.5	183.7	37.75	12.5	12.9	M12X18	17.5	22	27.5	G-PT1/8
ZTK55SL							95	173.8	232	51.9							
ZTK65S	90	12	31.5	126	76	25	70	160	232	60.8	15.8	12.9	M16X20	25	15	15	G-PT1/8
ZTK65SL							120	223	295	67.3							

Model	Rail Dimensions (mm)							Tightening Bolt of Rail (mm)	Basic Load Rating		Allowable Static Torque			Weight	
	WR	H _R	D	h	d	P	E		C(KN)	Co(KN)	MR KN-m	MP KN-m	MY KN-m	Block(kg)	Rail(kg/m)
ZTK20S	20	21	9.5	8.5	6	30	20	M5X20	21.3	46.7	0.647	0.46	0.46	0.44	2.76
ZTK20SL									26.9	63	0.872	0.837	0.837	0.62	
ZTK25S	23	23.6	11	9	7	30	20	M6X20	27.7	57.1	0.758	0.605	0.605	0.67	3.08
ZTK25SL									33.9	73.4	0.975	0.991	0.991	0.86	
ZTK30S	28	28	14	12	9	40	20	M8X25	39.1	82.1	1.445	1.06	1.06	1.06	4.41
ZTK30SL									48.1	105	1.846	1.712	1.712	1.42	
ZTK35S	34	30.2	14	12	9	40	20	M8X25	57.9	105.2	2.17	1.44	1.44	1.61	6.06
ZTK35SL									73.1	142	2.93	2.6	2.6	2.21	
ZTK45S	45	38	20	17	14	52.5	22.5	M12X35	92.6	178.8	4.52	3.05	3.05	3.22	9.97
ZTK45SL									116	230.9	6.33	5.47	5.47	4.41	
ZTK55S	53	44	23	20	16	60	30	M14X45	130.5	252	8.01	5.4	5.4	5.18	13.98
ZTK55SL									167.8	348	11.15	10.25	10.25	7.34	
ZTK65S	63	53	26	22	18	75	35	M16X50	213	411.6	16.2	11.59	11.59	11.04	20.22
ZTK65SL									275.3	572.7	22.55	22.17	22.17	15.75	

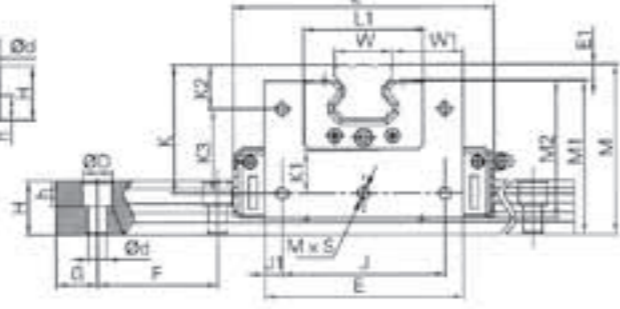
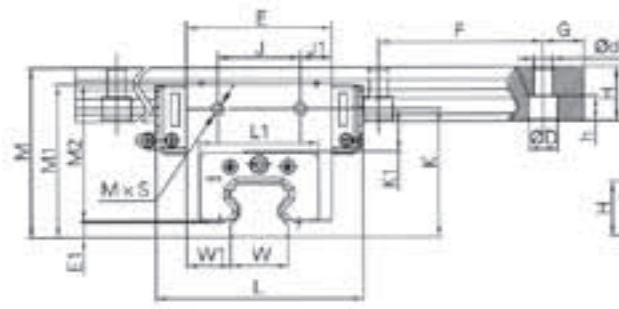
Specification of STK Sereis (Cross) ▶



Note: C,CO,MO load, torque
See the model size table for the parameters

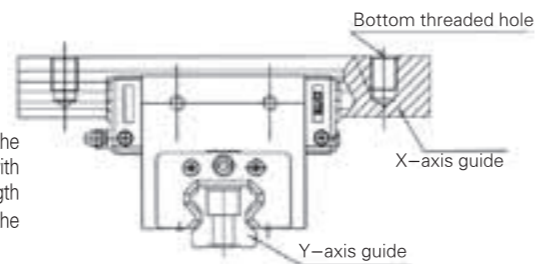
• STK

• STK-L

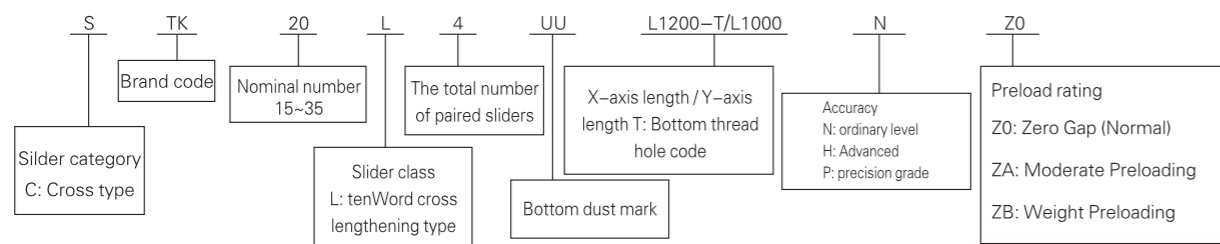


• STK type/STK-L type eith threaded hole on the bottom of guide rail

STK type includes the bottom of the guide rail with a threaded hole tyoe, the bottom of the guide thread with thread. Afer threading on the X-axis guide, it can be secured from the top with bolts. there are bottom thread requirements of the customer, can be ordered in the rail length after the "T" code.(Refer to the STK guide bottom thread hole parameter table for the corresponding screw hole size and effective depth.)



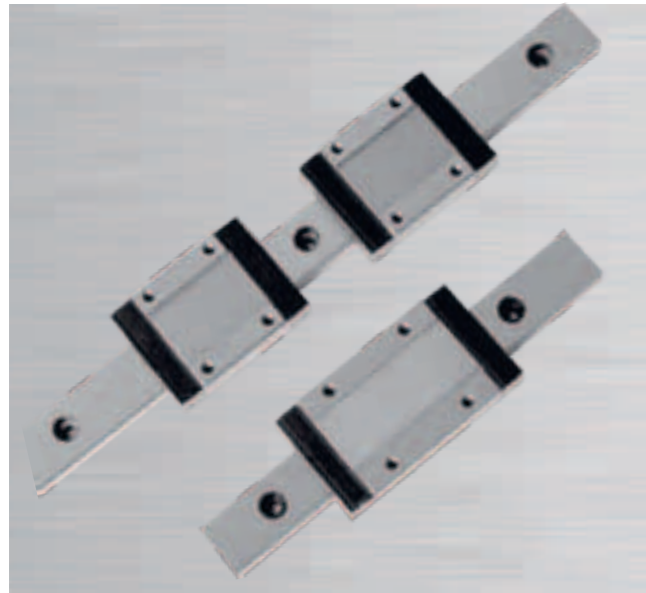
• Product model description



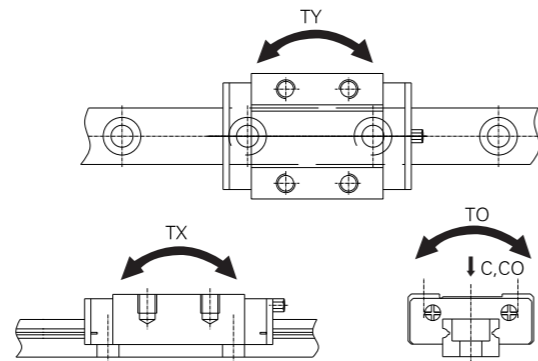
Nominal model	Component size			Slider size										
	M	M1	L	E	M2	J	J1	K	K1	K2	K3	M × S	L1	E1
STK15	47	42.6	61.8	39.8	38.2	20	9.9	34.8	11	-	-	M4 × 5	32	4.4
STK20	57	52	77.6	51	47	30	10.5	42.5	13.5	-	-	M5 × 8	42.2	3.9
STK20L	57	52	93.6	67	47	56	5.5	37	8	13	24	M5 × 8	42.2	3.9
STK25	70	63	83.5	59.5	56	34	12.75	52	16.3	-	-	M6 × 10	47	5.9
STK25L	70	63	102.5	78.5	56	64	7.25	44	8.3	18	26	M6 × 10	47	5.9
STK30	82	74	100.5	70.5	66	40	15.25	61	19.2	-	-	M6 × 10	58.3	7.3
STK30L	82	74	123	93	66	76	8.5	53	11.2	21	32	M6 × 10	58.3	7.3
*STK35L	95	85.5	139.2	105.8	76	90	7.9	61	13.3	34	37	M4 × 14	68	8.2

Nominal model	Rail size				Basic rated load		Single slider capacityXu Jing moment	weight			
	W	W1	H	D × d × h	F	G (recommend)		(KN) Dynamic C	(KN) Static load CO	Mo (N · M)	Block (kg)
STK15	15	12.4	15	7.5 × 4.5 × 5.3	60	20	8.33	13.5	80.5	0.34	1.5
STK20	20	15.5	18	9.5 × 6 × 8.5	60	20	13.8	23.8	190	0.75	2.3
STK20L	20	23.5	18	9.5 × 6 × 8.5	60	20	21.3	31.8	270	1.3	2.3
STK25	23	18.25	22	11 × 7 × 9	60	20	19.9	34.4	307	1.2	3.3
STK25L	23	27.75	22	11 × 7 × 9	60	20	27.2	45.9	459	2.2	3.3
STK30	28	21.25	26	14 × 9 × 12	80	20	28	46.8	524	2	4.6
STK30L	28	32.5	26	14 × 9 × 12	80	20	37.3	62.5	751	3.6	4.6
*STK35L	34	35.9	29	14 × 9 × 12	80	20	50.2	81.5	1200	5.3	6.4

Specification of WTK Series Linear guide(Mini Type) ▶

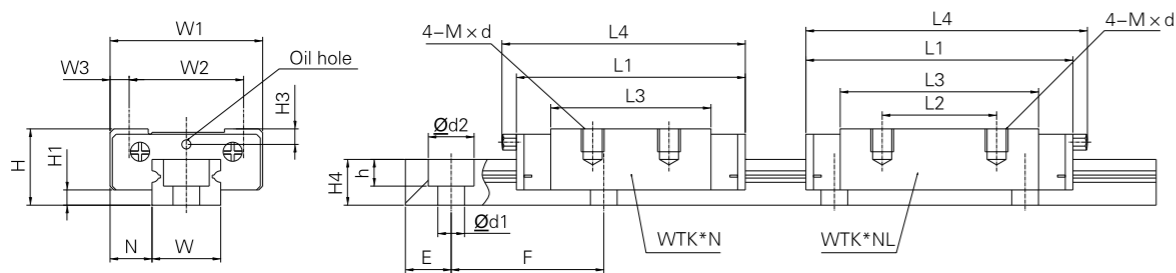


• WTK-N,WTK-W

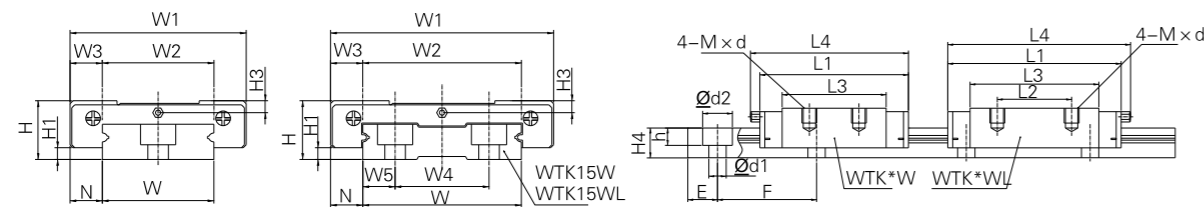


Note: Specification of C, Co, Ta, Tx, Ty refer to Page A29

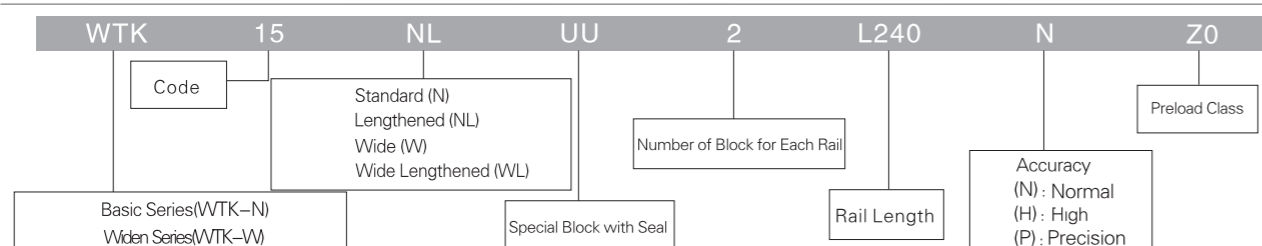
• WTK-N



• WTK-W



Model Code ▶



Model	Component Dimension			Block Dimension									Rail Bolt Size	
	H	H1	N	W1	W2	W3	L1	L2	L3	L4	M×d	H3	Size×Length	
WTK7N	8	1.5	5	17	12	2.5	23.5	8	14.3	-	M2x2.5	1.5	M2X6	
WTK7NL	8	1.5	5	17	12	2.5	31	12	21.6	-	M2X2.6	1.5	M2X6	
WTK9N	10	2	5.5	20	15	2.5	30	10	20.8	-	M3X3	2.2	M3X8	
WTK9NL	10	2	5.5	20	15	2.5	40.5	15	30.9	-	M3X3	2.2	M3X8	
WTK12N	13	3	7.5	27	20	3.5	34	15	21.6	-	M3X3.5	2.7	M3X8	
WTK12NL	13	3	7.5	27	20	3.5	44	20	32	-	M3X3.5	2.7	M3X8	
WTK15N	16	4	8.5	32	25	3.5	42	20	27.8	-	M3X4	3.1	M3X10	
WTK15NL	16	4	8.5	32	25	3.5	57	25	42.7	62	M3X4	3.1	M3X10	
WTK7W	9	1.9	5.5	25	19	3	31.2	10	21	-	M3X3	1.8	M3X6	
WTK7WL	9	1.9	5.5	25	19	3	41	19	30.8	-	M3X3	1.8	M3X6	
WTK9W	12	2.9	6	30	21	4.5	39.3	12	27.5	-	M3X3	2.4	M3X8	
WTK9WL	12	2.9	6	30	23	3.5	50.7	24	38.5	-	M3X3	2.4	M3X8	
WTK12W	14	3	8	40	28	6	44	15	31	-	M3X3.5	3.2	M4X10	
WTK12WL	14	3	8	40	28	6	59	28	46.3	-	M3X3.5	3.2	M4X10	
WTK15W	16	4	9	60	45	7.5	55	20	39	60	M4X4.5	3.2	M4X12	
WTK15WL	16	4	9	60	45	7.5	74.5	35	58.3	79	M4X4.5	3.2	M4X12	

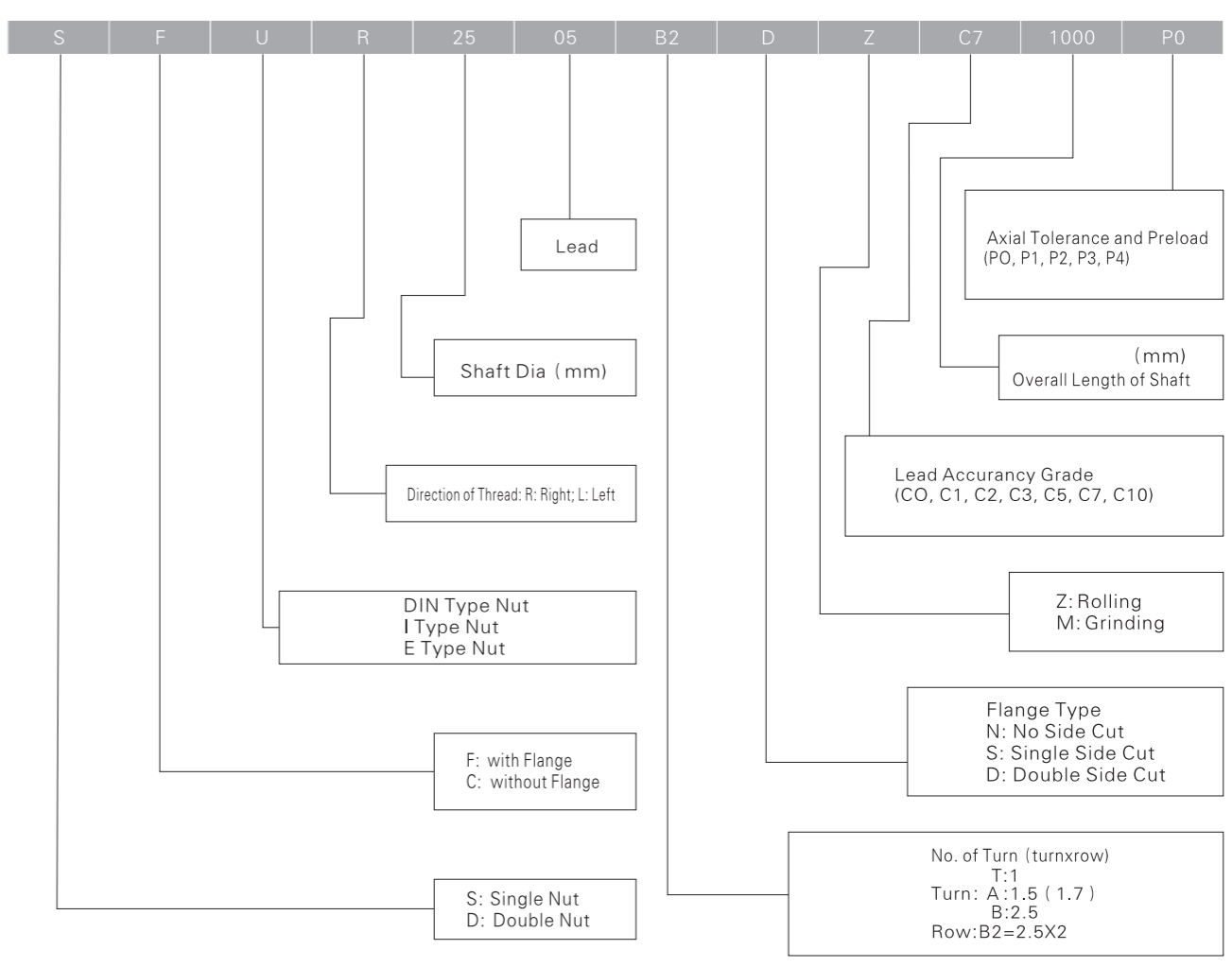
Model	Rail Dimension							Basic Load Rating		Static Instaneous Torque			Rail Bolt Size	
	W	H4	E	F	W4	W5	d1xd2xh	C (N)	Co (N)	To (N-m)	Tx (N-m)	Ty (N-m)	Block (g)	Rail (g/10cm)
WTK7N	7	5	7.5	15	-	-	2.4x4.2x2.3	1200	1960	7.2	4.9	4.1	10	22
WTK7NL	7	5	7.5	15	-	-	2.4x4.2x2.3	1510	2750	10	9.1	7.7	14	22
WTK9N	9	6	10	20	-	-	3.5x6x3.5	1610	2860	13.3	9.4	7.9	19	35
WTK9NL	9	6	10	20	-	-	3.5x6x3.5	2080	4180	19.4	19.4	16.3	28	35
WTK12N	12	8	12.5	25	-	-	3.5x6.5x4.5	2960	4450	27.6	16	13.4	35	65
WTK12NL	12	8	12.5	25	-	-	3.5x6.5x4.5	3780	6430	39.9	31.8	26.7	52	65
WTK15N	15	10	20	40	-	-	3.5x6.5x4.5	4390	6730	51.8	30.8	25.9	64	107
WTK15NL	15	10	20	40	-	-	3.5x6.5x4.5	5750	10100	77.7	66.2	55.6	95	107
WTK7W	14	5.2	10	30	-	-	3.5x6x3.2	1370	2060	15.7	7.14	7.14	20	51
WTK7WL	14	5.2	10	30	-	-	3.5x6x3.2	1770	3140	23.45	15.53	15.53	29	51
WTK9W	18	7	10	30	-	-	3.5x6x4.5	2750	4120	40.12	18.96	18.96	40	91
WTK9WL	18	7	10	30	-	-	3.5x6x4.5	3430	5890	54.54	34	34	57	91
WTK12W	24	8	20	40	-	-	3.5x8x4.5	3780	6430	78.4	31.8	26.7	76	139
WTK12WL	24	8	20	40	-	-	3.5x8x4.5	4870	9400	115	65.6	55	111	139
WTK15W	42	10	20	40	23	9.5	3.5x8x4.5	6150	10200	216	63.6	53.3	140	294
WTK15WL	42	10	20	40	23	9.5	3.5x8x4.5	7910	14900	316	131	110	204	294



B | Ball Screw Series

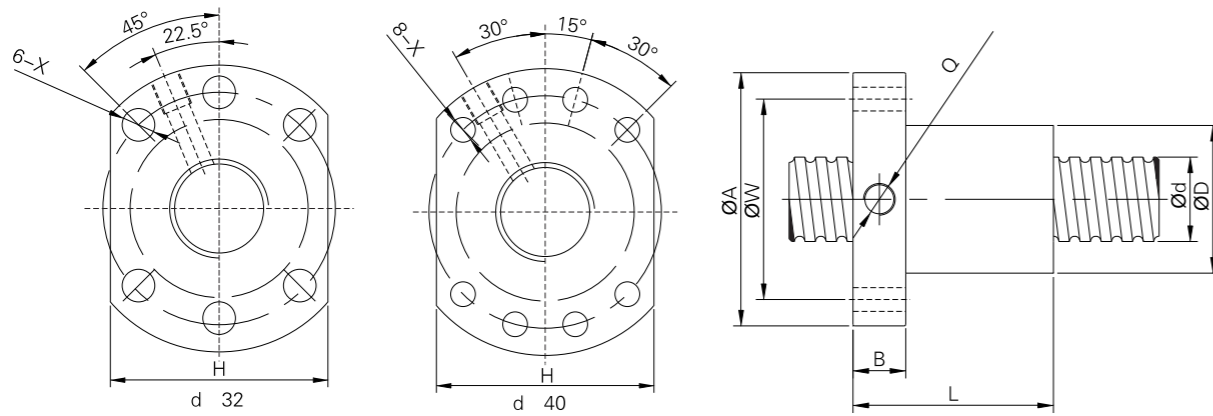


Ball Screw Model-number Code ▶



SFU Type Ball Screw Size Table ▶

SFU

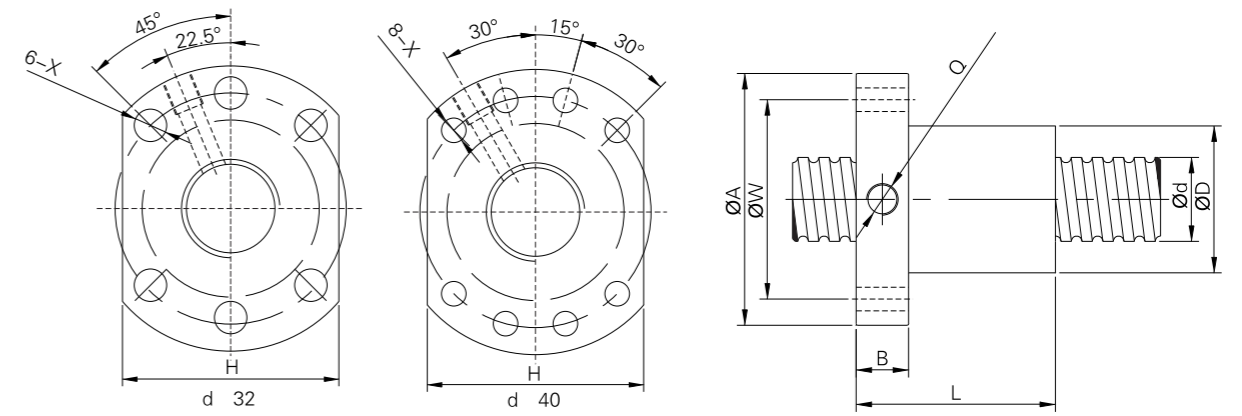


l: Lead; Da: Ball Dia.; N:No. of Turn; K: Rigidity; Ca:Basic Dynamic Load Rating;Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut														
	d	l	Da	D	A	B	L	W	X	H	Q	n	Ca	Coa	K
SFU01204-3	12	4	2.5	22	42	8	35	32	4.8	30	M6	4	593	1129	12.5
SFU01204-4		4	2.5	24	40	10	40	32	4.5	30	M6	4	593	1129	12.5
SFU01604-4	16	4	2.381	28	48	10	40	38	5.5	40	M6	4	629	1270	35
SFU01605-4		5	3.175	28	48	10	50	38	5.5	40	M6	4	780	1790	20
SFU01610-4	20	10	3.175	28	48	10	57	38	5.5	40	M6	3	721	1249	15
SFU02004-4		4	2.381	36	58	10	42	47	6.6	44	M6	4	699	1617	41
SFU02005-4	25	5	3.175	36	58	10	51	47	6.6	44	M6	4	1130	2380	25
SFU02504-4		4	2.381	40	62	10	42	51	6.6	48	M6	4	777	2052	48
SFU02505-4	32	5	3.175	40	62	10	51	51	6.6	48	M6	4	1280	3110	35
SFU02506-4		6	3.969	40	62	10	54	51	6.6	48	M6	4	1528	3284	40
SFU02508-4	80	8	4.762	40	62	10	63	51	6.6	48	M6	4	1941	3863	38
SFU02510-4		10	4.762	40	62	12	85	51	6.6	48	M6	4	1944	3877	33
SFU03204-4	32	4	2.381	50	80	12	44	65	9	62	M6	4	871	2661	56

SFU Type Ball Screw Size Table ▶

SFU



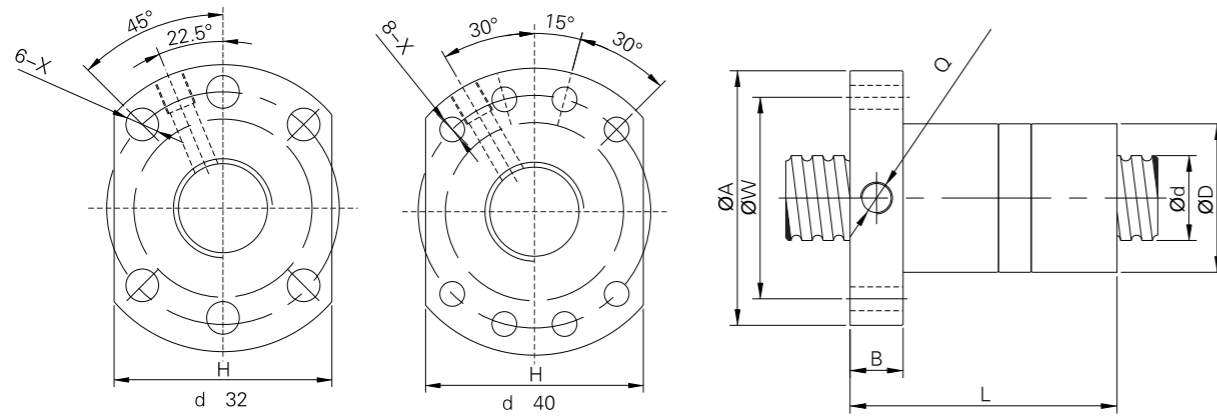
l: Lead; Da: Ball Dia.; N:No. of Turn; K: Rigidity; Ca:Basic Dynamic Load Rating;Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut														
	d	l	Da	D	A	B	L	W	X	H	Q	n	Ca	Coa	K
SFU03205-4	32	5	3.175	50	80	12	52	65	9	62	M6	4	1450	4150	40
SFU03206-4		6	3.969	50	80	12	57	65	9	62	M6	4	1720	4298	47
SFU03208-4		8	4.762	50	80	12	65	65	9	62	M6	4	2189	5079	44
SFU03210-4		10	6.350	50	80	12	90	65	9	62	M6	4	3390	7170	79
SFU04005-4	40	5	3.175	63	93	14	55	78	9	70	M6	4	1610	5330	49
SFU04006-4		6	3.969	63	93	14	60	78	9	70	M6	4	1911	5458	55
SFU04008-4		8	4.762	63	93	14	67	78	9	70	M6	4	2435	6469	52
SFU04010-4	50	10	6.350	63	93	14	93	78	9	70	M8	4	3910	9520	50
SFU05010-4		10	6.350	75	110	16	93	93	11	85	M8	4	4450	12500	65
SFU05020-4	63	20	7.144	75	110	16	138	93	11	85	M8	4	4644	14327	59.5
SFU06310-4		10	6.350	90	125	18	98	108	11	95	M8	4	5070	16000	80
SFU06320-4	80	20	9.525	95	135	20	149	115	13.5	100	M8	4	7573	23860	84.1
SFU08010-4		10	6.350	105	145	20	98	125	13.5	110	M8	4	5620	21300	90
SFU08020-4	80	20	9.525	125	165	25	154	145	13.5	130	M8	4	8485	30895	84.1

Note: d≤32, nut with six hole. d≥40, nut with eight hole

DFU Type Ball Screw Size Table ▶

DFU



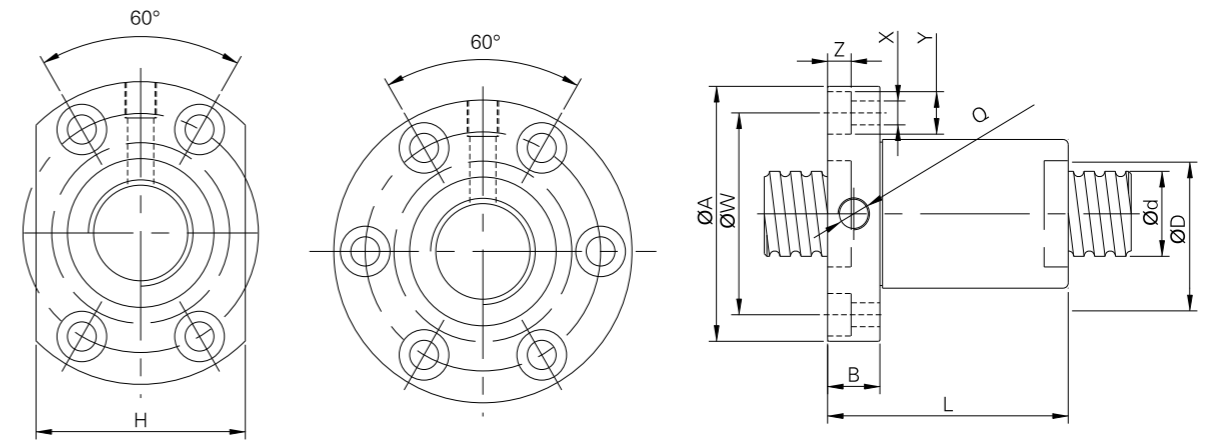
I: Lead; Da: Ball Dia.; N: No. Of Turn; K: Rigidity; Ca: Basic Dynamic Load Rating; Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut														
	d	I	Da	D	A	B	L	w	X	H	Q	n	Ca	Coa	K
DFU01604-4	16	4	2.381	28	48	10	80	38	5.5	40	M6	4	629	1270	35
DFU01605-4		5	3.175	28	48	10	100	38	5.5	40	M6	4	780	190	20
DFU01610-3		10	3.175	28	48	10	118	38	5.5	40	M6	3	721	1249	15
DFU02004-4	20	4	2.381	36	58	10	80	47	6.6	44	M6	4	699	1617	41
DFU02005-4		5	3.175	36	58	10	101	47	6.6	44	M6	4	1130	2380	25
DFU02504-4	25	4	2.381	40	62	10	80	51	6.6	48	M6	4	777	2052	48
DFU02505-4		5	3.175	40	62	10	101	51	6.6	48	M6	4	1280	3110	35
DFU02506-4		6	3.969	40	62	10	105	51	6.6	48	M6	4	1528	3284	40
DFU02508-4		8	4.762	40	62	10	120	51	6.6	48	M6	4	1941	3863	38
DFU02510-4		10	4.762	40	62	12	145	51	6.6	48	M6	4	1944	3877	33
DFU03204-4	32	4	2.381	50	80	12	80	65	9	62	M6	4	871	2661	56
DFU03205-4		5	3.175	50	80	12	102	65	9	62	M6	4	1450	4150	40
DFU03206-4		6	3.969	50	80	12	105	65	9	62	M6	4	1720	4298	47
DFU03208-4		8	4.762	50	80	12	122	65	9	62	M6	4	2189	5079	44
DFU03210-4		10	6.350	50	80	12	162	65	9	62	M6	4	3390	7170	79
DFU04005-4		40	5	3.175	63	93	14	105	78	9	70	M6	4	1610	5330
DFU04006-4	6		3.969	63	93	14	108	78	9	70	M6	4	1911	5458	55
DFU04008-4	8		4.762	63	93	14	132	78	9	70	M6	4	2435	6469	52
DFU04010-4	10		6.350	63	93	14	165	78	9	70	M8	4	3910	9520	50
DFU05010-4	50	10	6.350	75	110	16	171	93	11	85	M8	4	4450	12500	65
DFU05020-4		20	7.144	75	110	16	280	93	11	85	M8	4	4644	14327	59.5
DFU06310-4	63	10	6.350	95	125	18	182	108	11	95	M8	4	5070	16000	80
DFU06320-4		20	9.525	95	135	20	290	115	13.5	100	M8	4	7573	23860	84.1
DFU08010-4	80	10	6.350	105	145	20	182	125	13.5	110	M8	4	5620	21300	90
DFU08020-4		20	9.525	125	165	25	295	145	13.5	130	M8	4	8485	30895	84.1
DFU10020-4	100	20	9.525	150	202	30	340	170	17.5	155	M8	4	9420	39183	110.1

Note: d≤32, nut with six hole. d≥40, nut with eight hole

SFI Type Ball Screw Size Table ▶

SFI

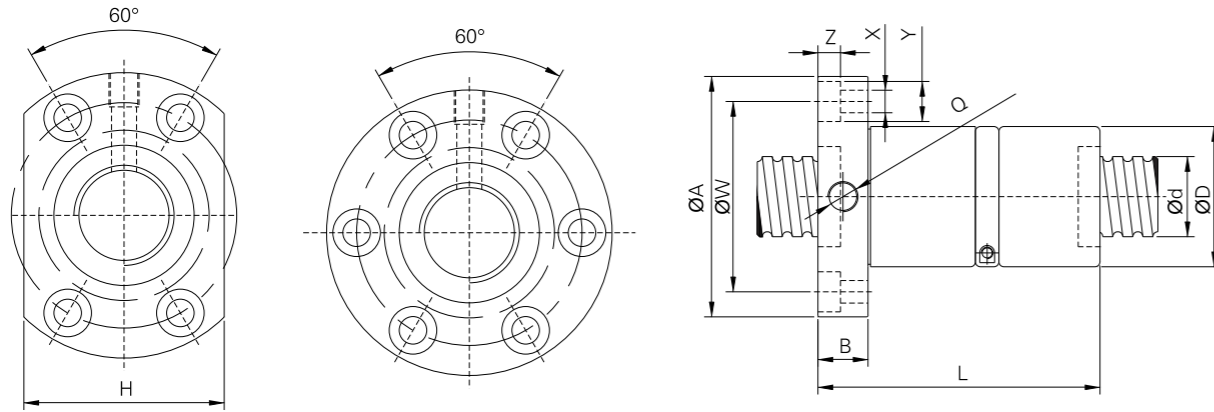


I: Lead; Da: Ball Dia.; N: No. Of Turn; K: Rigidity; Ca: Basic Dynamic Load Rating; Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut																
	d	I	Da	D	A	B	L	w	X	Y	Z	H	Q	n	Ca	Coa	K
SFI01604-4	16	4	2.381	30	49	10	45	39	4.5	8	4.5	34	M6	4	640	1340	16
SFI01605-4		5	3.175	30	49	10	50	39	4.5	8	4.5	34	M6	4	780	1790	20
SFI01610-4		10	3.175	34	58	10	57	45	4.5	9.5	5.5	34	M6	3	833	1249	15
SFI02004-4	20	4	2.381	34	57	11	46	45	5.5	9.5	5.5	40	M6	4	670	1480	25
SFI02005-4		5	3.175	34	57	11	51	45	5.5	9.5	5.5	40	M6	4	1130	2380	25
SFI02010-4	5.08	3.175	34	57	11	51	45	5.5	9.5	5	40	M6	4	1130	2380	25	
SFI02504-4	25	4	2.381	40	63	11	46	51	5.5	9.5	5.5	46	M6	4	760	1950	31
SFI02505-4		5	3.175	40	63	11	51	51	5.5	9.5	5.5	46	M8	4	1280	3110	35
SFI02510-4		10	4.762	46	72	12	85	58	6.5	11	6.5	52	M6	4	1944	3877	33
SFI03204-4	32	4	2.381	46	72	12	47	58	6.5	11	6.5	52	M6	4	860	3050	40
SFI03205-4		5	3.175	46	72	12	52	58	6.5	11	6.5	52	M8	4	1450	4150	40
SFI03210-4		10	6.35	54	88	15	90	70	9	14	8.5	62	M8	4	3390	7170	40
SFI04005-4	40	5	3.175	56	90	15	55	72	9	14	8.5	64	M8	4	1610	5330	49
SFI04010-4		10	6.35	62	104	18	93	82	11	17.5	11	70	M8	4	3910	9520	50
SFI05010-4	50	10	6.35	72	114	18	93	92	11	17.5	11	82	M8	4	4450	12500	65
SFI06310-4	63	10	6.35	85	131	22	98	107	14	20	13	95	M8	4	5070	16600	80
SFI08010-4	80	10	6.35	105	150	22	98	127	14	20	13	115	M8	4	5620	23100	90

DFI Type Ball Screw Size Table ▶

DFI

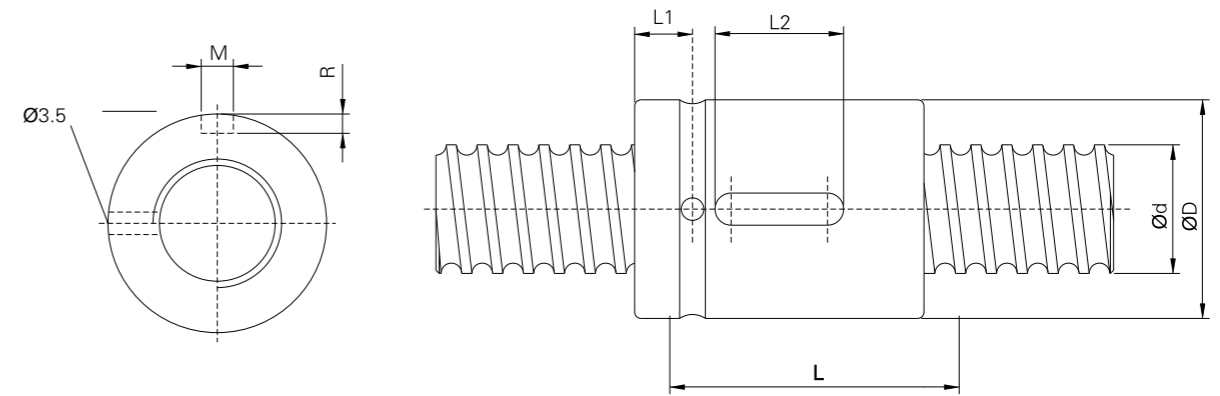


I: lead; Da: bead diameter; N: the pearl ring number; K: rigid; Ca: dynamic load rating; Coa: static rated load

Model	Specification of Ballscrew Shaft and Nut																
	I	d	Da	D	A	B	L	W	X	Y	Z	H	Q	n	Ca	Coa	K
DFI01604-4	16	4	2.381	30	49	10	80	39	4.5	8	4.5	34	M6	4	640	1340	35
DFI01605-4		5	3.175	30	49	10	100	39	4.5	8	4.5	34	M6	4	780	1790	36
DFI02004-4	20	4	2.381	34	57	11	80	45	5.5	9.5	5.5	40	M6	4	670	1480	41
DFI02005-4		5	3.175	34	57	11	101	45	5.5	9.5	5.5	40	M6	4	1130	2380	45
DFI02504-4	25	4	2.381	40	63	11	80	51	5.5	9.5	5.5	46	M6	4	760	1950	48
DFI02505-4		5	3.175	40	63	11	101	51	5.5	9.5	5.5	46	M8	4	1280	3110	63
DFI02510-4		10	4.762	46	72	12	145	58	6.5	11	6.5	52	M6	4	1944	3877	65
DFI03204-4	32	4	2.381	46	72	12	80	58	6.5	11	6.5	52	M6	4	860	3050	56
DFI03205-4		5	3.175	46	72	12	102	58	6.5	11	6.5	52	M8	4	1450	4150	72
DFI03210-4		10	6.35	54	88	15	162	70	9	14	8.5	62	M8	4	3390	7170	72
DFI04005-4	40	5	3.175	56	90	15	105	72	9	14	8.5	64	M8	4	1610	5330	98
DFI04010-4		10	6.35	62	104	18	165	82	11	17.5	11	70	M8	4	3910	9520	90
DFI05010-4	50	10	6.35	72	114	18	171	92	11	17.5	11	82	M8	4	4450	12500	117
DFI06310-4	63	10	6.35	85	131	22	182	107	14	20	13	95	M8	4	5070	16600	14
DFI08010-4	80	10	6.35	105	150	22	182	127	14	20	13	115	M8	4	5620	21300	162

SCI Type Ball Screw Size Table ▶

SCI

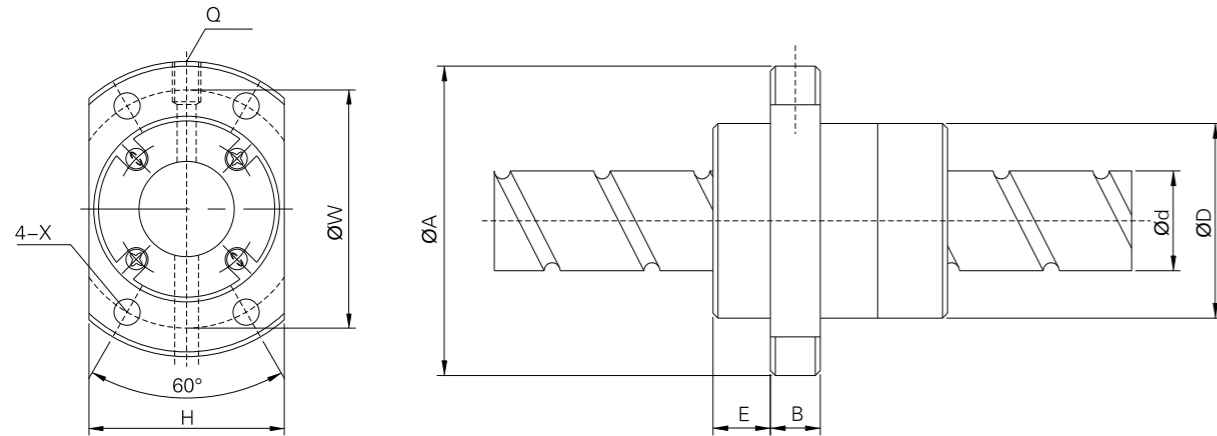


I: Lead; Da: Ball Dia.; N: No. Of Turn; K: Rigidity; Ca: Basic Dynamic Load Rating; Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut												
	d	I	Da	D	L	L1	L2	M	R	n	Ca	Coa	K
SCI01604-4	16	4	2.381	30	40	9	15	3	1.5	4	640	1340	16
SCI01605-4		5	3.175	30	45	9	20	5	3	4	780	1790	20
SCI02004-4	20	4	2.381	34	40	9	15	3	1.5	4	670	1480	25
SCI02005-4		5	3.175	34	45	9	20	5	3	4	1130	2380	25
SCI02504-4	25	4	2.381	40	40	9	15	3	1.5	4	760	1950	31
SCI02505-4		5	3.175	40	45	9	20	5	3	4	1280	3110	35
SCI02510-4		10	4.752	46	85	13	30	5	3	4	1944	3877	33
SCI03204-4	32	4	2.381	46	40	9	15	3	1.5	4	860	3050	40
SCI03205-4		4	3.175	46	45	9	20	5	3	4	1450	4150	40
SCI03210-4		10	6.35	54	85	13	30	5	5	4	3390	7170	40
SCI04005-4	40	5	3.175	56	45	9	20	5	3	4	1610	5330	49
SCI04010-4		10	6.35	62	85	13	30	5	3	4	3910	9520	50
SCI05010-4	50	10	6.35	72	85	13	30	5	3	4	4450	12500	65
SCI06310-4	63	10	6.35	85	85	13	30	6	3.5	4	5070	16600	80
SCI08010-4	80	10	6.35	105	85	13	30	8	4.5	4	5620	21300	90

SFE type ball screw size table ▶

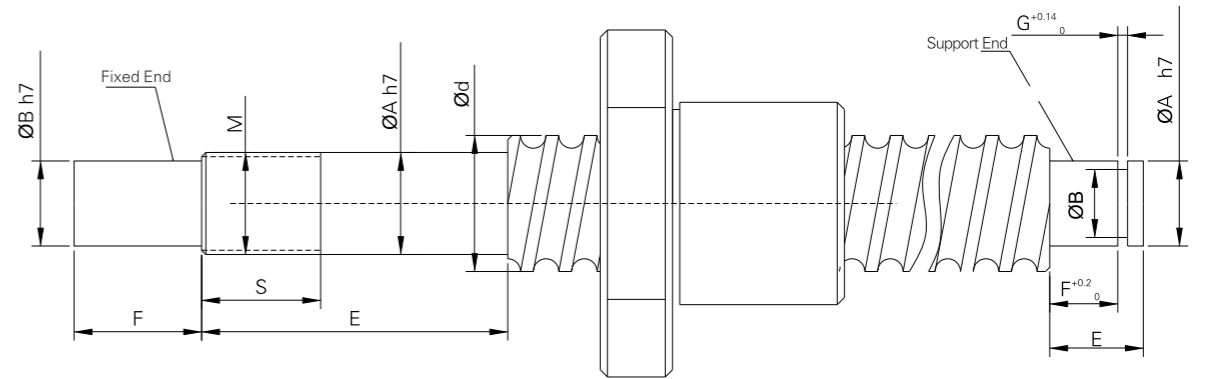
SFE



I: Lead; Da: Ball Dia.; N: No. Of Turn; K: Rigidity; Ca: Basic Dynamic Load Rating; Coa: Basic Static Load Rating

Model	Specification of Ballscrew Shaft and Nut															
	d	I	Da	D	A	B	E	L	W	X	H	Q	n	Ca	Coa	K
SFE01616-3	16	16	2.778	32	53	10	10.1	38	42	4.5	34	M6	1.7X2	650	1280	19
SFE01616-6		16	2.778	32	53	10	10.1	38	42	4.5	34	M6	1.7X4	1180	2550	36
SFE01632-3	16	32	3.175	34	55	10	10.5	34	45	5.5	36	M6	0.7X2	410	680	21
SFE01632-6		32	3.175	34	55	10	10.5	34	45	5.5	36	M6	0.7X4	820	1360	41
SFE02020-3	20	20	3.175	39	62	10	11.5	47	50	5.5	41	M6	1.7X2	980	2140	25
SFE02020-6		20	3.175	39	62	10	11.5	47	50	5.5	41	M6	1.7X4	1780	4280	49
SFE02040-3	20	40	3.175	38	58	10	11	41	48	5.5	40	M6	0.7X2	455	880	25
SFE02040-6		40	3.175	38	58	10	11	41	48	5.5	40	M6	0.7X4	910	1760	49
SFE02525-3	25	25	3.969	47	74	12	13	57	60	6.6	49	M6	1.7X2	1470	3350	31
SFE02525-6		25	3.969	47	74	12	13	57	60	6.6	49	M6	1.7X4	2660	6690	60
SFE02550-3	25	50	3.969	46	70	12	13	50	58	6.6	48	M6	0.7X2	685	1380	31
SFE02550-6		50	3.969	46	70	12	13	50	58	6.6	48	M6	0.7X4	1370	2760	60
SFE03232-3	32	32	4.762	58	92	12	16	71	74	9	60	M6	1.7X2	2140	5260	40
SFE03232-6		32	4.762	58	92	12	16	71	74	9	60	M6	1.7X4	3890	10500	76
SFE03264-3	32	64	4.762	58	92	12	15.5	62	74	9	60	M6	0.7X2	1000	2130	40
SFE03264-6		64	4.762	58	92	12	15.5	62	74	9	60	M6	0.7X4	2000	4260	77
SFE04040-3	40	40	6.350	73	114	15	19	89	93	11	75	M6	1.7X2	3410	8820	49
SFE04040-6		40	6.350	73	114	15	19	89	93	11	75	M6	1.7X4	6200	17600	95
SFE05050-3	50	50	7.938	90	135	20	21.5	107	112	14	92	M6	0.7X2	5100	13800	60
SFE05050-6		50	7.938	90	135	20	21.5	107	112	14	92	M6	0.7X4	7260	27600	117

Suggestion of Shaft End Size ▶

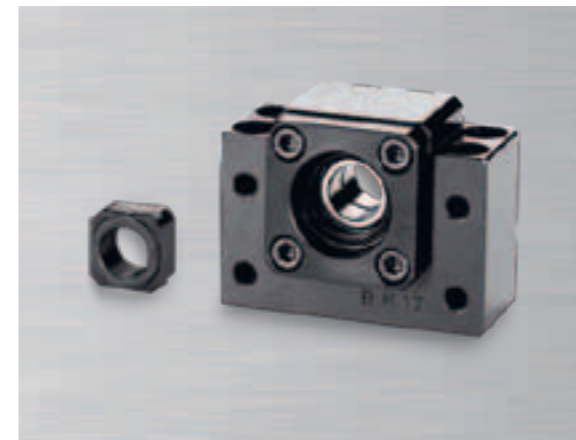


Model (fixed end)	Shaft Dia	Bearing End Dia	—	—	—	Thread Size	
BK	d	A	B	E	F	M	S
BK10	12/14/15	10	8	36	15	M10X1	16
BK12	14/15/16	12	10	36	15	M12X1	14
BK15	18/20	15	12	40	20	M15X1	12
BK17	20/25	17	15	53	23	M17X1	17
BK20	25/28	20	17	53	25	M20X1	15
BK25	32/36	25	20	65	30	M25X1.5	18
BK30	36/40	30	25	72	38	M30X1.5	25
BK35	45	35	30	81	45	M35X1.5	28
BK40	50	40	35	93	50	M40X1.5	35

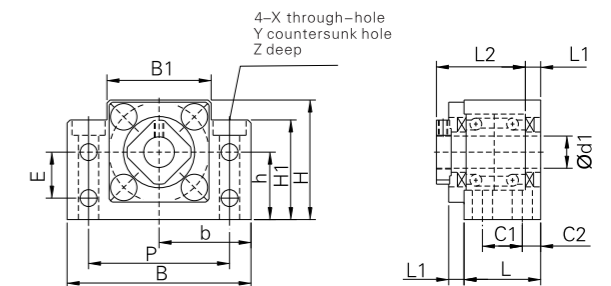
Model (support end)			Shaft Dia	Bearing End Dia	Groove of buckle			
FF	EF	BF	d	A	E	B	F	G
FF10	EF10	BF10	12/14/15	8	10	7.6	7	0.9
FF12	EF12	BF12	14/15/16	10	11	9.6	8	1.15
FF15	EF15	BF15	18/20	15	13	14.3	9	1.15
FF17	—	BF17	20/25	17	16	16.2	12	1.15
FF20	EF15	BF20	25/28	20	19(16)	19	14(12)	1.35
FF25	—	BF25	32/36	25	20	23.9	15	1.35
FF30	—	BF30	36/40	30	21	28.6	16	1.75
—	—	BF35	45	35	22	33	17	1.75
—	—	BF40	50	40	23	38	18	1.75



Ball Screw Support End Series



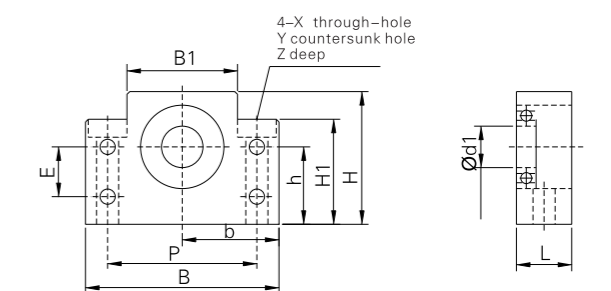
BK Fixed End



Model	d1	L	L1	L2	L3	C1	C2	B	H	b±0.02	h±0.02	B1	H1	E	P	d2	X	Y	Z
BK 10	10	25	5	29	5	13	6	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5
BK 12	12	25	5	29	5	13	6	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	5
BK 15	15	27	6	32	6	15	6	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5
BK 17	17	35	9	44	7	19	8	86	64	43	39	50	55	28	68	6.6	9	14	8.5
BK 20	20	35	8	43	8	19	8	88	60	44	34	52	50	22	70	6.6	9	14	8.5
BK 25	25	42	12	54	9	22	10	108	80	53	48	64	70	33	85	9	11	17.5	11
BK 30	30	45	14	61	9	23	11	128	89	64	51	76	78	33	102	11	14	20	13
BK 35	35	50	14	67	12	26	12	140	96	70	52	88	79	35	114	11	14	20	13
BK 40	40	61	18	76	15	33	14	160	110	80	60	100	90	37	130	14	18	26	17.5



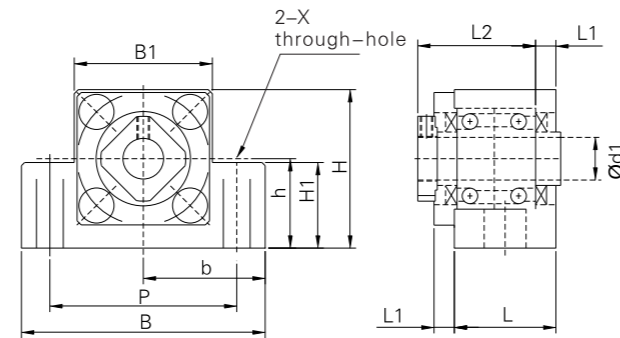
BF Support End



Model	d1	L	B	H	b±0.02	h±0.02	B1	H1	E	P	d2	X	Y	Z
BF 10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5
BF 12	10	20	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	5
BF 15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5
BF 17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5
BF 20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5
BF 25	25	30	106	80	53	48	64	70	33	85	9	11	17.5	11
BF 30	30	32	128	89	64	51	76	78	33	102	11	14	20	13
BF 35	35	32	140	96	70	52	88	79	35	114	11	14	20	13
BF 40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5



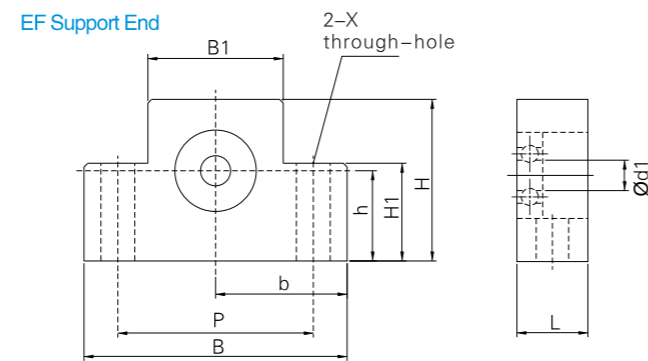
EK Fixed End



Model	d1	L	L1	L2	L3	B	H	b \pm 0.02	h \pm 0.02	B1	H1	P	X
EK 10	10	24	6	29.5	6	70	43	35	25	36	24	52	9
EK 12	12	24	6	29.5	6	70	43	35	25	36	24	52	9
EK 15	15	25	6	35	5	80	49	40	30	41	25	60	11
EK 20	20	42	10	50	10	95	58	47.5	30	56	25	75	11



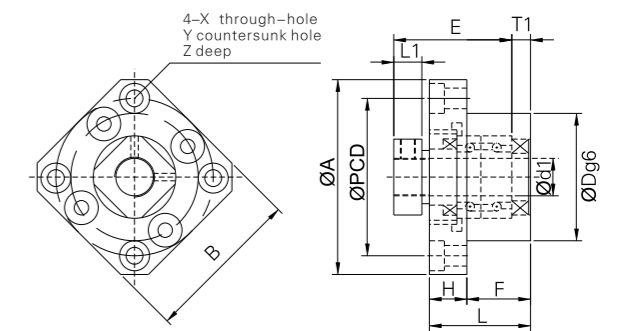
EF Support End



Model	d1	L	B	H	b \pm 0.02	h \pm 0.02	B1	H1	P	X	Y	Z
EF 10	8	20	70	43	35	25	36	24	52	9	—	—
EF 12	10	20	70	43	35	25	36	24	52	9	—	—
EF 15	15	20	80	49	40	30	41	25	60	9	—	—
EF 20	20	26	95	58	47.5	30	56	25	75	11	—	—



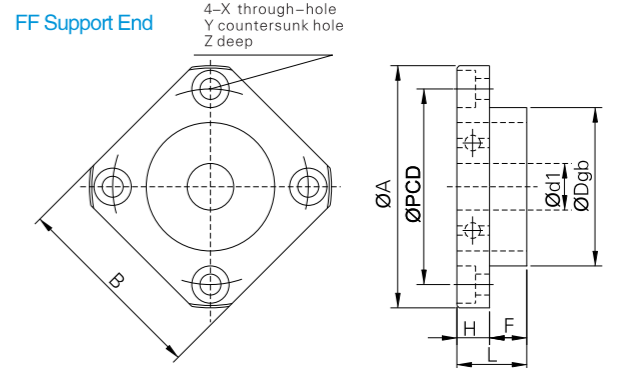
FK Fixed End



Model	d1	L	H	F	E	Dg6	A	PCD	B	L1	T1	X	Y	Z
FK 10	10	27	10	17	29.5	34	52	42	42	7.5	5	4.5	8	4
FK 12	12	27	10	17	29.5	36	54	44	44	7.5	5	4.5	8	4
FK 15	15	32	15	17	36	40	63	50	52	10	6	5.5	9.5	6
FK 20	20	52	22	30	50	57	85	70	68	8	10	6.6	11	10
FK 25	25	57	27	30	60	63	98	80	79	13	10	9	15	13
FK 30	30	62	30	32	61	75	117	95	93	11	12	11	17.5	15



FF Support End



Model	d1	L	H	F	Dg6	A	PCD	B	X	Y	Z
FF 10	8	12	7	5	28	43	35	35	3.4	6.5	4
FF 12	10	15	7	8	34	52	42	42	4.5	8	4
FF 15	15	17	9	8	40	63	50	52	5.5	9.5	5.5
FF 20	20	20	11	9	57	85	70	68	6.6	11	6.5
FF 25	25	24	14	10	63	98	80	79	9	14	8.5
FF 30	30	27	18	9	75	117	95	93	11	17.5	11

Interchangeability table MTE-Hiwin

MTE model number	Hiwin model number
GTK 15F	HGW-15CA
GTK 20F	HGW-20CA
GTK 25F	HGW-25CA
GTK 30F	HGW-30CA
GTK 35F	HGW-35CA
GTK 45F	HGW-45CA
GTK 20FL	HGW-20HA
GTK 25FL	HGW-25HA
GTK 30FL	HGW-30HA
GTK 35FL	HGW-35HA
GTK 45FL	HGW-45HA
GTK 15S	HGH-15CA
GTK 20S	HGH-20CA
GTK 25S	HGH-25CA
GTK 30S	HGH-30CA
GTK 35S	HGH-35CA
GTK 45S	HGH-45CA
GTK 20SL	HGH-20HA
GTK 25SL	HGH-25HA
GTK 30SL	HGH-30HA
GTK 35SL	HGH-35HA
GTK 45SL	HGH-45HA
DTK 15F	EGW-15CA
DTK 20F	EGW-20CA
DTK 25F	EGW-25CA
DTK 15FS	EGW-15SA
DTK 15S	EGH-15CA
DTK 20S	EGH-20CA
DTK 25S	EGH-25CA
DTK 25SS	EGH-25SA
GTK 15 L-4000mm	HGR 15 L-4000mm
GTK 20 L-4000mm	HGR 20 L-4000mm
GTK 25 L-4000mm	HGR 25 L-4000mm
GTK 30 L-4000mm	HGR 30 L-4000mm
GTK 35 L-4000mm	HGR 35 L-4000mm
GTK 45 L-4000mm	HGR 45 L-4000mm
DTK 15 L-4000mm	EGR 15 L-4000mm
DTK 20 L-4000mm	EGR 20 L-4000mm
DTK 25 L-4000mm	EGR 25 L-4000mm
GTK 25 L-6000mm	HGR 25 L-6000mm
GTK 30 L-6000mm	HGR 30 L-6000mm
GTK 35 L-6000mm	HGR 35 L-6000mm



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