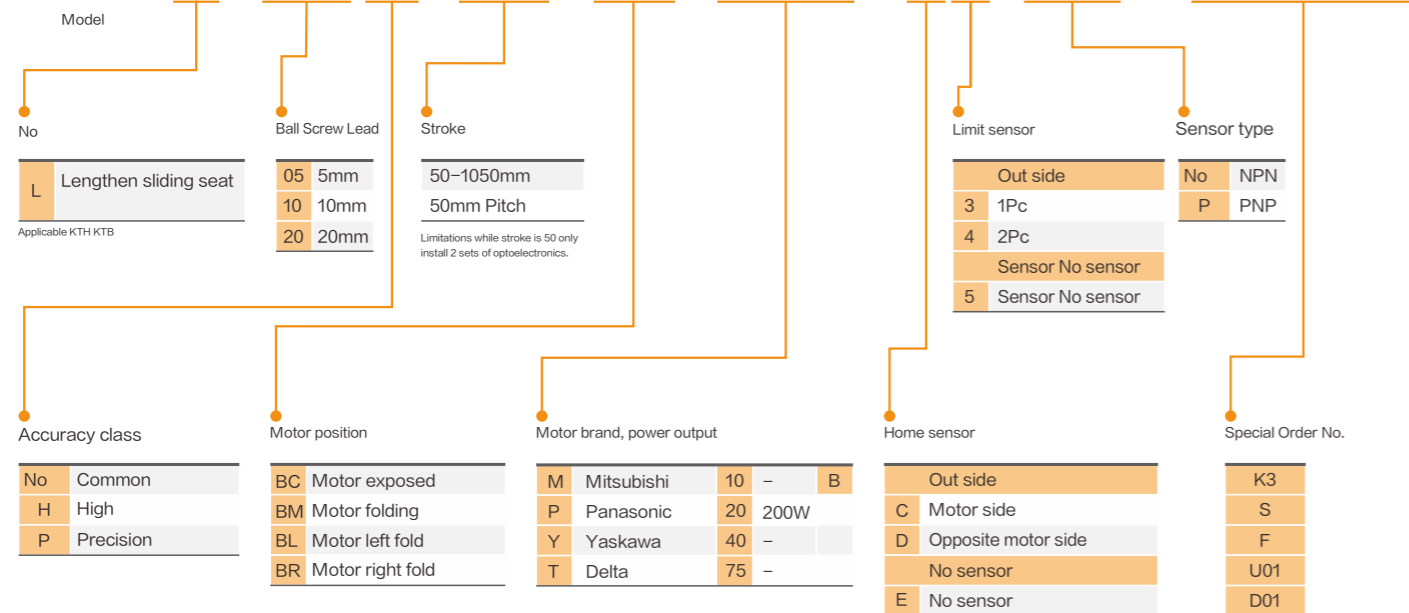


# Ball Screw module specification

## KTH22 - L10 P - 100 - BC - P20B - C4 ( P ) - Special



When the stroke is 50mm, the sensor installation has the following restrictions:  
 • C4AD4 will not be available for installation (order) option  
 • Home sensor and limit sensor has to be installed on the different side of body  
 • Both sides of slider need to install the sensor trigger device.

Special Order No.  
Refer to the table below

Name	Detailed information
K3	Module mounting with 3:1 reducer
S	Short sliding
F	Dust Cover
U01	Up installation hole customization
D01	Down installation hole customization
UD01	Both up and down installation hole customization
FZZ	Module as Auxiliary Support
TL	Drag Chain
DG	Auxiliary Guide Rail on the Outside of module
DG02	Module Internal Replacement Guide Rail
SL01	Hand Wheel
SL02	Hand Wheel, Self-locking Device
SL03	Hand Wheel, Self-locking Device, Ruler
D20	Replace 20 diameter lead screw
JC	Use of motor with keyway
KG01	Switch Mounting Plate, M2.5 Hole, Spacing 8
KG02	Long Switch Mounting Plate, Spacing 8

# KTH Series

## Ball screw drive

### CONTENTS

#### General screw series

<p><b>KTH13</b></p>  <p>Maximum stroke 1050mm Maximum load 70kg Body width 135mm</p>	<p><b>KTH22</b></p>  <p>Maximum stroke 1500mm Maximum load 150kg Body width 220mm</p>
<p><b>KTH14</b></p>  <p>Maximum stroke 1050mm Maximum load 110kg Body width 135mm</p>	<p><b>KTH27</b></p>  <p>Maximum stroke 1500mm Maximum load 350kg Body width 270mm</p>
<p><b>KTH17</b></p>  <p>Maximum stroke 1250mm Maximum load 120kg Body width 170mm</p>	

- General/ Inline/ Screw sample
- ATH
- RTH
- General/ Screw sample
- DG
- KTH
- General/ Electric cylinder sample
- DMB
- EMB
- General/ Inline/ Belt sample
- RTB
- General/ Belt sample
- DB
- KTB
- General/ European/ Belt sample
- MB
- Clean/ Inline/ Screw sample
- ACH
- RCH
- Clean/ Screw sample
- KCH
- Clean/ Inline/ Belt sample
- RCB
- Clean/ Belt sample
- KCB
- General/ KKT/ Screw sample
- KKT
- General/ Rack and pinion sample
- GR
- General/ Linear motor sample
- LM
- Reference

# KTH screw series structure diagram

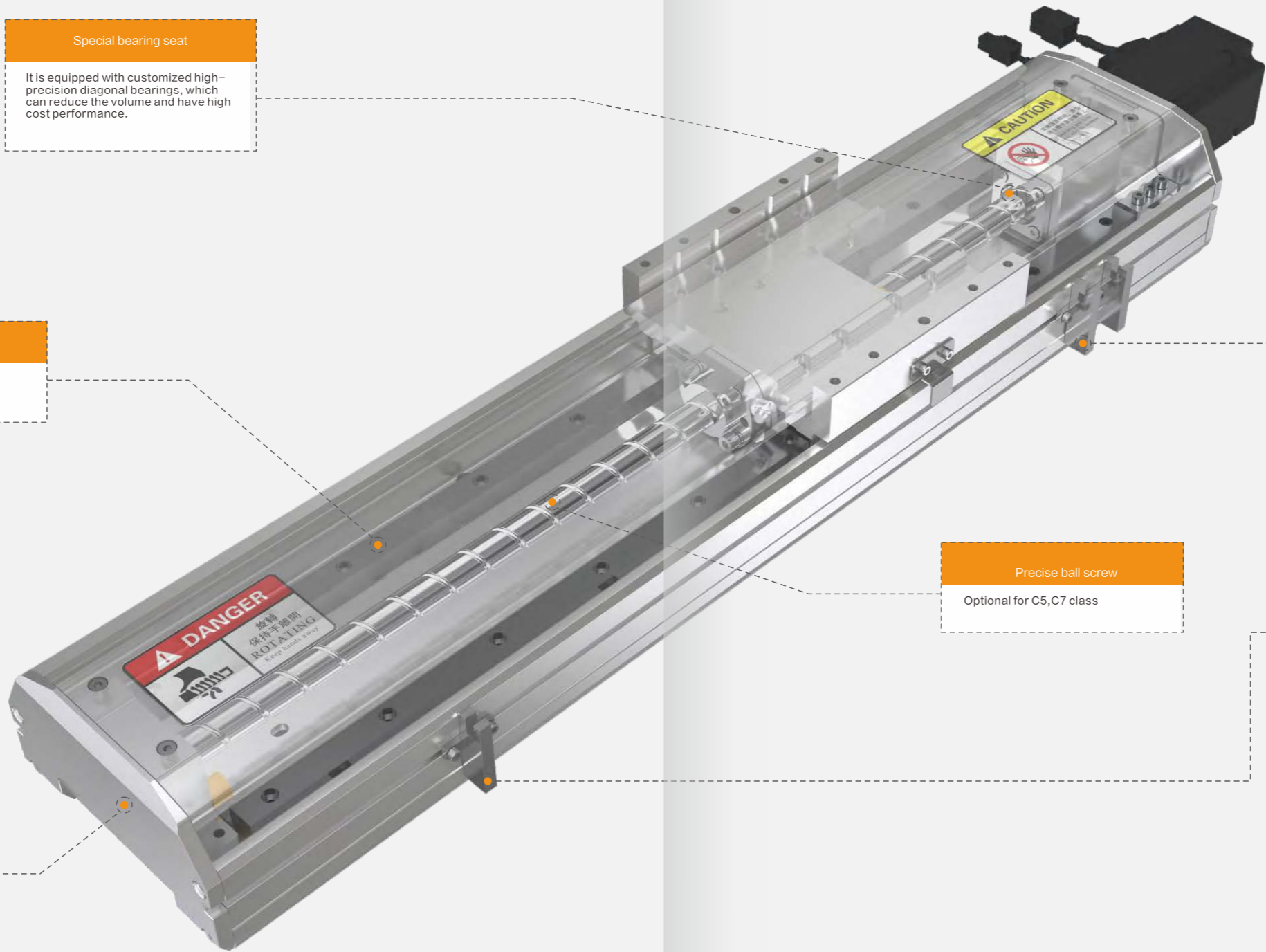
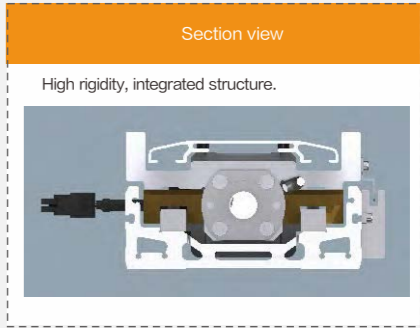
**Special bearing seat**  
 It is equipped with customized high-precision diagonal bearings, which can reduce the volume and have high cost performance.

**Precise linear guide rail**  
 Ensure the sliding running, keep straightly and parallel.

**Precise ball screw**  
 Optional for C5, C7 class

**Sensor mounting slot**  
 The base profile has its own installation slot, which can be adjusted freely and installed flexibly.

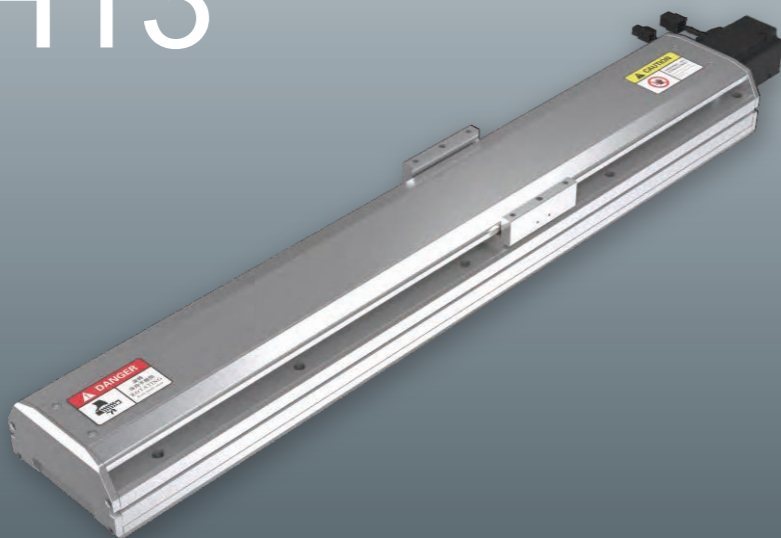
**End cover hand extraction structure**  
 Facilitate the handling and movement of modules.



General screw series

# KTH13

1-axis



This figure is for reference only. the shipping specifications are detailed in the dimension drawing.

Maximum stroke	1050mm	Maximum speed	1600mm/s	Motor capacity	200w/400w	Ball screw	Ø16mm
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Motor diection



Ordering method

## KTH13 - L5 - 100 - BC - P20B - C4 - Special

Special Order No.

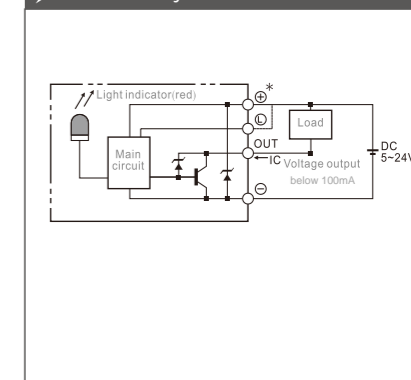
Model	Stroke	Motor brand, power output	Home sensor	Limit sensor
	50-1050mm 50mm Pitch <small>Limitations while stroke is 50 only install 2 sets of optoelectronics.</small>			
Ball Screw Lead	Motor position			
05 5mm	M Motor In-built	M Mitsubishi 10 - B	In side	In side
10 10mm	BC Motor exposed	P Panasonic 20 200W	A Motor side	1 1Pc
20 20mm	BL Motor left side	Y Yaskawa 40 -	B Opposite motor side	2 2Pc
32 32mm	BR Motor right side	T Delta 75 -	C Motor side	3 1Pc
	BM Motor bottom side		D Opposite motor side	4 2Pc
		<small>If no brake, no description.</small>	No sensor	No sensor
			E No sensor	5 No sensor

Specification

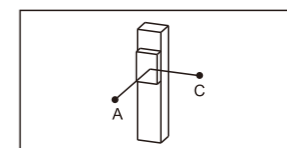
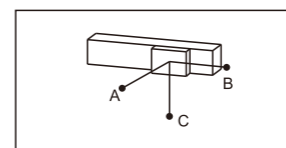
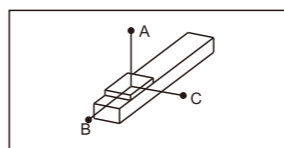
Spec	Repeatability	mm	±0.005				
	Ball screw lead	mm	5	10	20	32	
	Maximum speed	mm/s	250	500	1000	1600	
	Maximum payload	Horizontal	kg	70	47	24	13
		Vertical	kg	17	12	6	-
	Rated thrust	N	683/1388	341/694	174/433	107/347	
Stroke pitch	mm	50-1050mm/50 pitch					
Parts	AC Servo motor output	W	200/400				
	Ball screw ø	mm	C7Ø16				
	High rigidity linear guide	mm	W15XH12.5				
	Coupling	mm	10X14/11				
	Home sensor	Outside		EE-SX672(NPN)			
Built-in			EE-SX674(NPN)				

\* When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.  
\* Acceleration and deacceleration value is set 0.2 second.  
\* Motor(200W)/Shaft Diameter:Panasonic:Ø11mm;Other:Ø14mm.

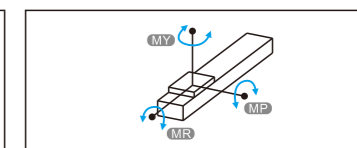
Sensor layout



Allowable overhang



Static loading moment



(Unit:mm)				(Unit:mm)				(Unit:mm)				(Unit:N.m)	
Horizontal Installation	A	B	C	Wall Installation	A	B	C	Vertical Installation	A	C	MY	MP	
Lead 5	40kg	795/795	63/63	225/225	30kg	310/310	88/88	1066/1066	5kg	580/580	580/580	174/174	
	55kg	558/558	43/43	155/155	50kg	172/172	49/49	620/620	11kg	264/264	264/264	175/175	
	70kg	422/422	32/32	115/115	70kg	115/115	32/32	422/422	17kg	170/170	170/170	153/153	
Lead 10	25kg	588/588	95/95	276/276	20kg	351/351	122/122	743/743	4kg	644/644	644/644		
	35kg	410/410	65/65	190/190	30kg	225/225	78/78	484/484	8kg	322/322	322/322		
	47kg	295/295	46/46	135/135	47kg	135/135	46/46	294/294	12kg	215/215	215/215		
Lead 20	6kg	1068/1068	355/355	710/710	5kg	852/852	428/428	1227/1227	3kg	667/667	667/667		
	15kg	416/416	136/136	275/275	12kg	345/345	173/173	522/522	6kg	335/335	335/335		
	24kg	252/252	81/81	166/166	24kg	166/166	81/81	253/253	-	-	-		
Lead 32	7kg	385/385	205/205	298/298	6kg	350/350	240/240	453/453	-	-	-		
	13kg	204/204	106/106	156/156	13kg	155/155	106/106	204/204	-	-	-		

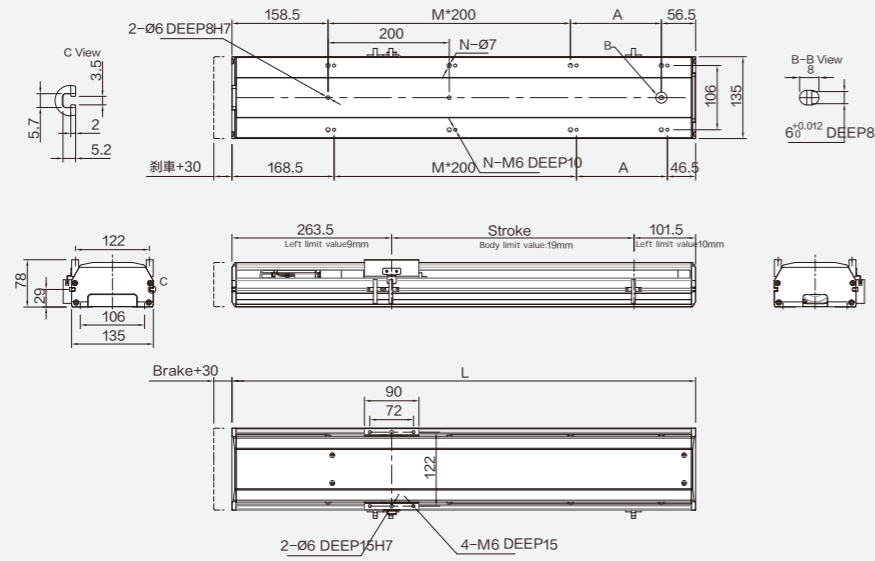
\* The torque value in the chart indicate the center of gravity.  
\* Operation life is 10,000km when the product is using under the specified conditions.  
\* Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

Suitable motor brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor model	Driver model
Mitsubishi	M	No brake(Horizontal type)	200/400	220	HG-KR23/HG-KR43	MR-J4-20A/MR-J4-40A
		With brake(Vertical type)	200/400	220	HG-KR23B/HG-KR43B	MR-J4-20A/MR-J4-40A
Panasonic	P	No brake(Horizontal type)	200/400	220	MHMD022G1U/MHMD042G1U	MADHT1507/MBDHT2510
		With brake(Vertical type)	200/400	220	MHMD022G1V/MHMD042G1V	MADHT1507/MBDHT2510
Delta	T	No brake(Horizontal type)	200/400	220	ECMA-C20602ES/ECMA-C20604ES	ASD-B20221-B/ASD-B20421-B
		With brake(Vertical type)	200/400	220	ECMA-C20602FS/ECMA-C20604FS	ASD-B20221-B/ASD-B20421-B

Motor In-built / Motor exposed

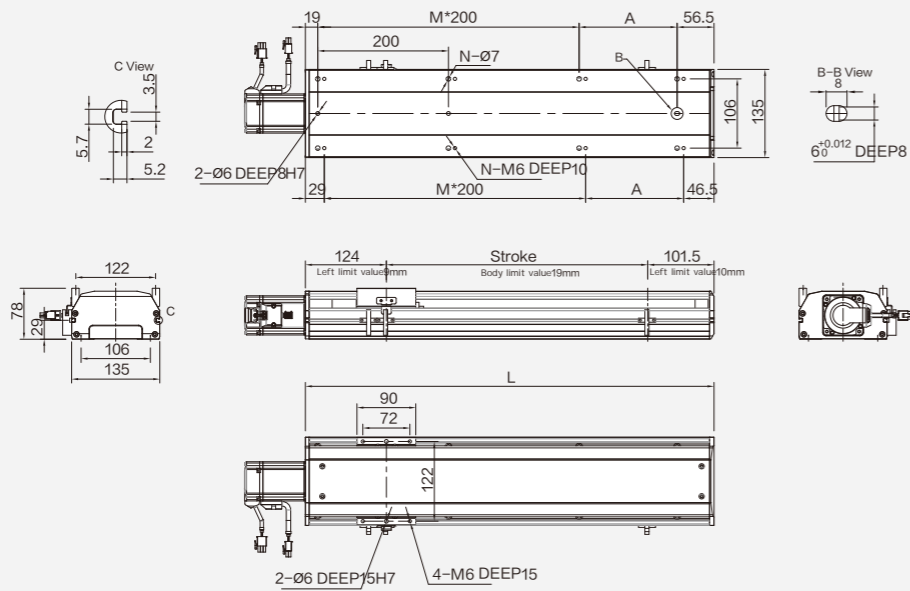
1-axis **KTH13**



(Unit:mm)

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

**M**



(Unit:mm)

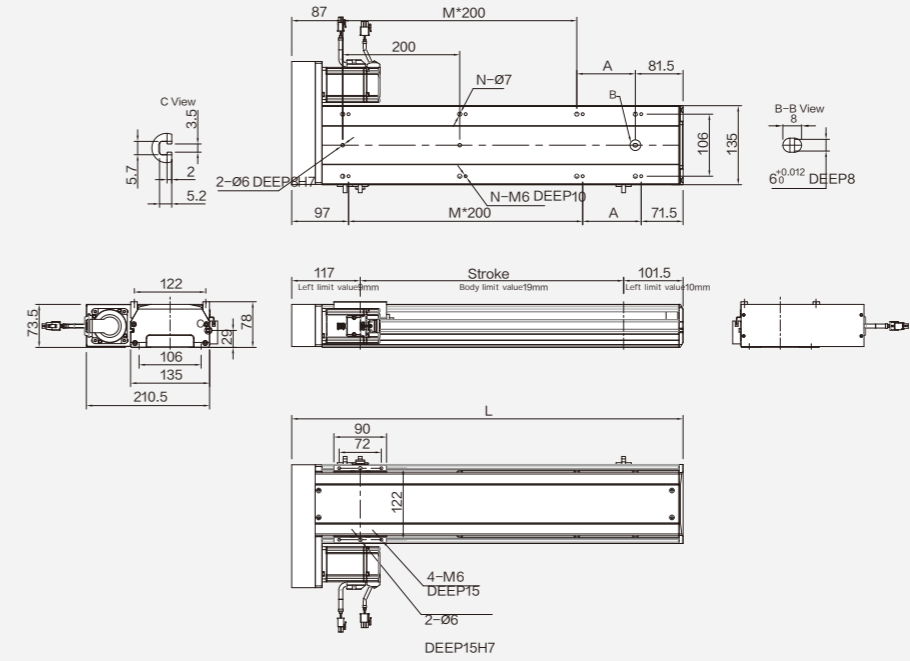
Motor exposed	Stroke	Stroke																			
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	275.5	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	200	50	100	150	200	50	100	150	200	50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

**BC**

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

Motor left side / Motor right side

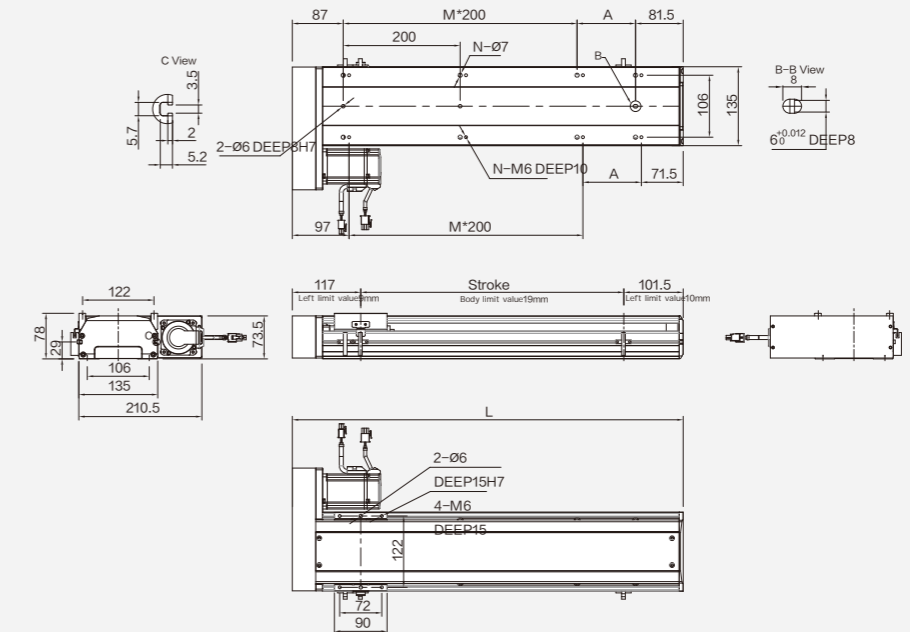
1-axis **KTH13**



(Unit:mm)

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

**BL**



(Unit:mm)

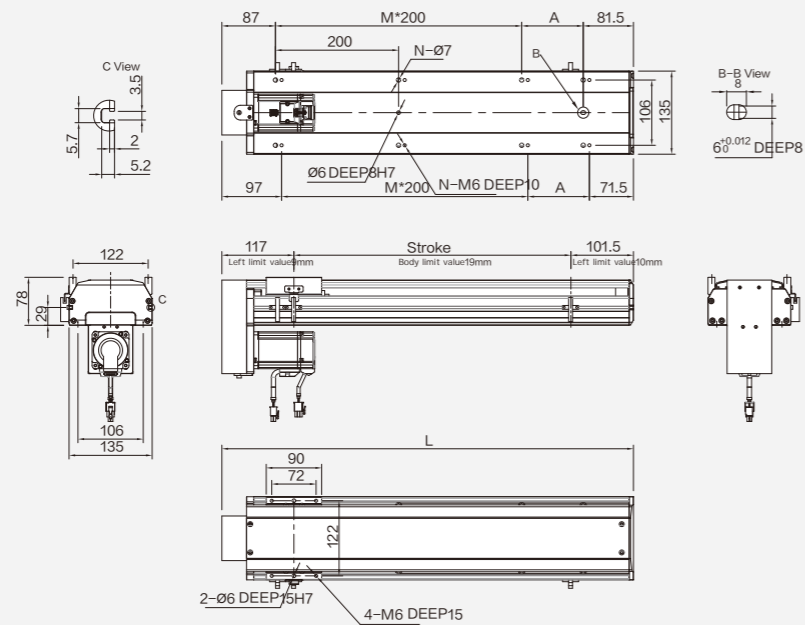
Motor right side	Stroke	Stroke																			
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	268.5	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	100	150	200	50	100	150	200	50	100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

**BR**

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

Motor bottom side

1-axis **KTH13**



(Unit:mm)

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

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

MEMO

General screw series

# KTH14

1-axis



Precision  
±0.005 mm

This figure is for reference only. the shipping specifications are detailed in the dimension drawing.

Maximum stroke **1050mm**    Maximum speed **1600mm/s**    Motor capacity **200W/400W**    Ball screw **Ø16mm**

Motor diection



Ordering method

## KTH14 - L5 - 100 - BC - P20B - C4 - Special

Special Order No.

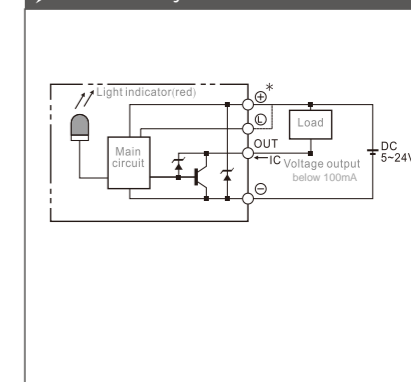
Model	Stroke	Motor brand, power output	Home sensor	Limit sensor
	50-1050mm 50mm Pitch <small>Limitations while stroke is 50 only install 2 sets of optoelectronics.</small>			
Ball Screw Lead	Motor position	Motor brand, power output	Home sensor	Limit sensor
05 5mm	M Motor In-built	M Mitsubishi 10 - B	In side	In side
10 10mm	BC Motor exposed	P Panasonic 20 200W	A Motor side	1 1Pc
20 20mm	BL Motor left side	Y 安川 Yaskawa 40 -	B Opposite motor side	2 2Pc
32 32mm	BR Motor right side	T Delta 75 -	Out side	Out side
	BM Motor bottom side		C Motor side	3 1Pc
			D Opposite motor side	4 2Pc
			No sensor	No sensor
			E No sensor	5 No sensor

Specification

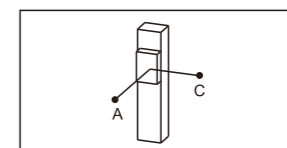
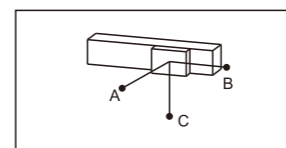
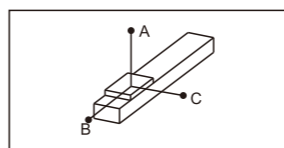
Spec	Repeatability	mm	±0.005				
	Ball screw lead	mm	5	10	20	32	
	Maximum speed	mm/s	250	500	1000	1600	
	Maximum payload	Horizontal	kg	95/110	75/88	35/40	15/30
		Vertical	kg	27/33	18/22	7/10	0/8
	Rated thrust	N	683/1388	341/694	174/347	107/218	
Parts	Stroke pitch	mm	50-1050mm/50 pitch				
	AC Servo motor output	W	200/400				
	Ball screw φ	mm	C7Ø16				
	High rigidity linear guide	mm	W15XH12.5				
	Coupling	mm	10X14(11) / 10X14				
	Home sensor	Outside		EE-SX672(NPN)			
Built-in			EE-SX674(NPN)				

\* When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.  
\* Acceleration and deceleration value is set 0.2 second.  
\* Motor(200W)/Shaft Diameter:Panasonic:Ø11mm;Other:Ø14mm.

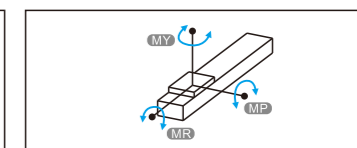
Sensor layout



Allowable overhang



Static loading moment



(Unit:mm)				(Unit:mm)				(Unit:mm)							
Horizontal Installation				Wall Installation				Vertical Installation							
		A	B	A	B	C	A	C							
Lead 5	60kg	2512/2512	242/242	232/232	Lead 5	55kg	257/257	269/269	2883/2883	Lead 5	15kg	1118/1118	1118/1118		
	80kg	1811/1811	172/172	164/164		Lead 10	75kg	178/178	186/186		2000/2000	Lead 10	22kg	770/770	770/770
	95/110kg	1537/1284	138/114	133/108			Lead 10	95/110kg	133/108		138/114		1537/1284	Lead 10	27/33kg
Lead 10	30kg	2727/2727	470/470	430/430	Lead 10			35kg	363/363	395/395	2368/2368		Lead 10		10kg
	50kg	1577/1577	266/266	242/242		Lead 10		55kg	218/218	238/238	1445/1445	Lead 10			14kg
	75/88kg	1004/854	164/134	150/122			Lead 10	75/88kg	150/123	164/134	1004/854			Lead 10	18/22kg
Lead 20	10kg	2304/2304	1222/1222	1028/1028	Lead 10			12kg	854/854	1019/1019	2552/2552		Lead 10		4/7kg
	22kg	1443/1443	540/540	451/451		Lead 10		20kg	500/500	596/596	1588/1588	Lead 10			7/10kg
	35/40kg	1005/860	324/277	271/233			Lead 10	35/40kg	271/233	324/277	1005/860			Lead 10	-
Lead 32	10/15kg	1555/1033	840/545	623/405	Lead 32			8/15kg	787/405	1060/545	1980/1033		Lead 32		0/5kg
	15/25kg	1033/604	545/311	405/233		Lead 32		15/30kg	405/188	545/251	1033/495	Lead 32			0/8kg
	0/30kg	0/495	0/251	0/188			Lead 32	-	-	-	-			Lead 32	-

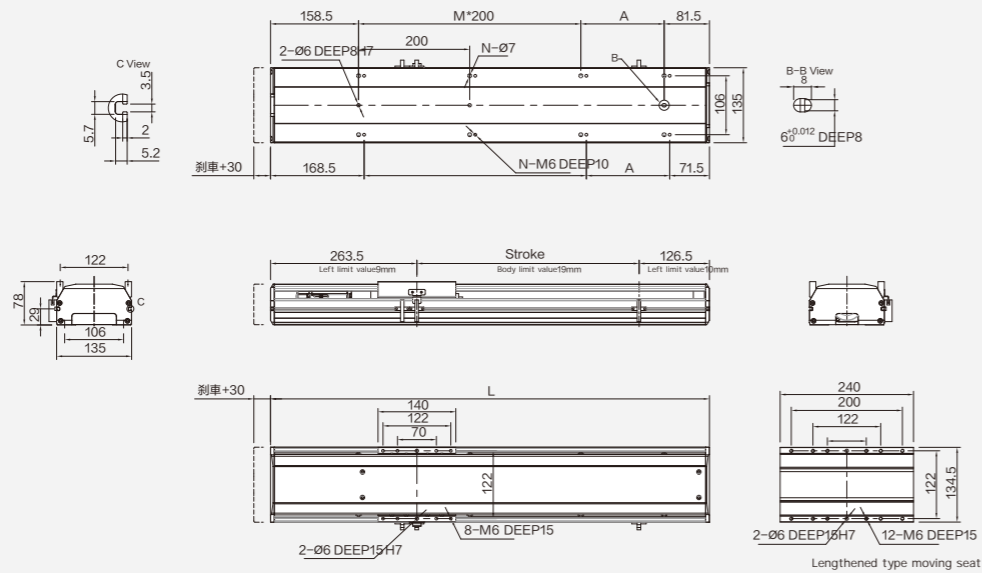
\* The torque value in the chart indicate the center of gravity.  
\* Operation life is 10,000km when the product is using under the specified conditions.  
\* Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

Suitable motor brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor model	Driver model
Mitsubishi	M	No brake(Horizontal type)	200/400	220	HG-KR23/HG-KR43	MR-J4-20A/MR-J4-40A
		With brake(Vertical type)	200/400	220	HG-KR23B/HG-KR43B	MR-J4-20A/MR-J4-40A
Panasonic	P	No brake(Horizontal type)	200/400	220	MHMD022G1U/MHMD042G1U	MADHT1507/MBDHT2510
		With brake(Vertical type)	200/400	220	MHMD022G1V/MHMD042G1V	MADHT1507/MBDHT2510
Delta	T	No brake(Horizontal type)	200/400	220	ECMA-C20602ES/ECMA-C20604ES	ASD-B20221-B/ASD-B20421-B
		With brake(Vertical type)	200/400	220	ECMA-C20602FS/ECMA-C20604FS	ASD-B20221-B/ASD-B20421-B

Motor In-built / Motor exposed

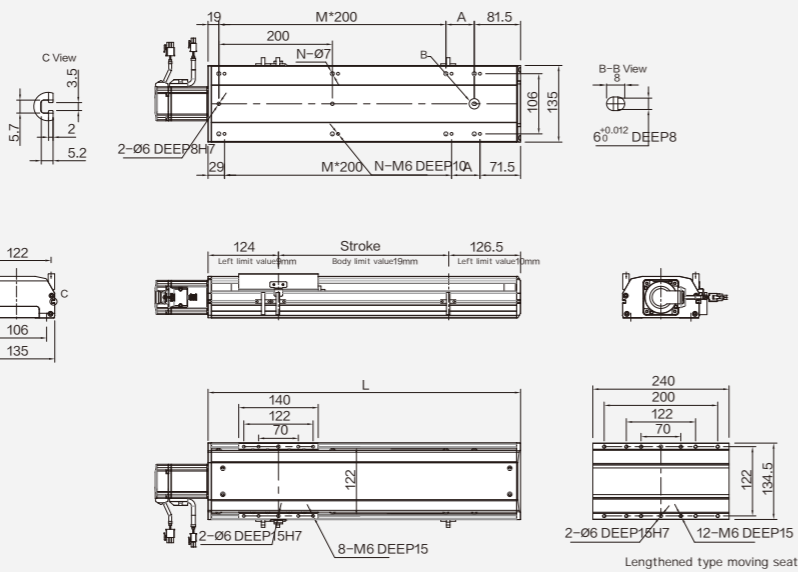
1-axis **KTH14**



(Unit:mm)

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

**M**



(Unit:mm)

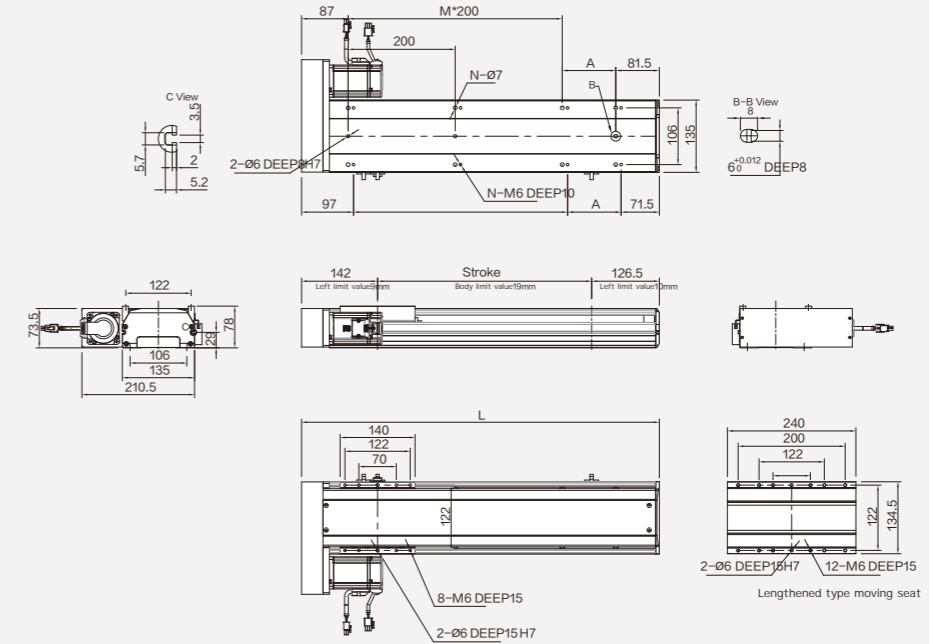
Motor exposed	Stroke	Body limit value(mm)																			
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	200	50	100	150	200	50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

**BC**

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

Motor left side / Motor right side

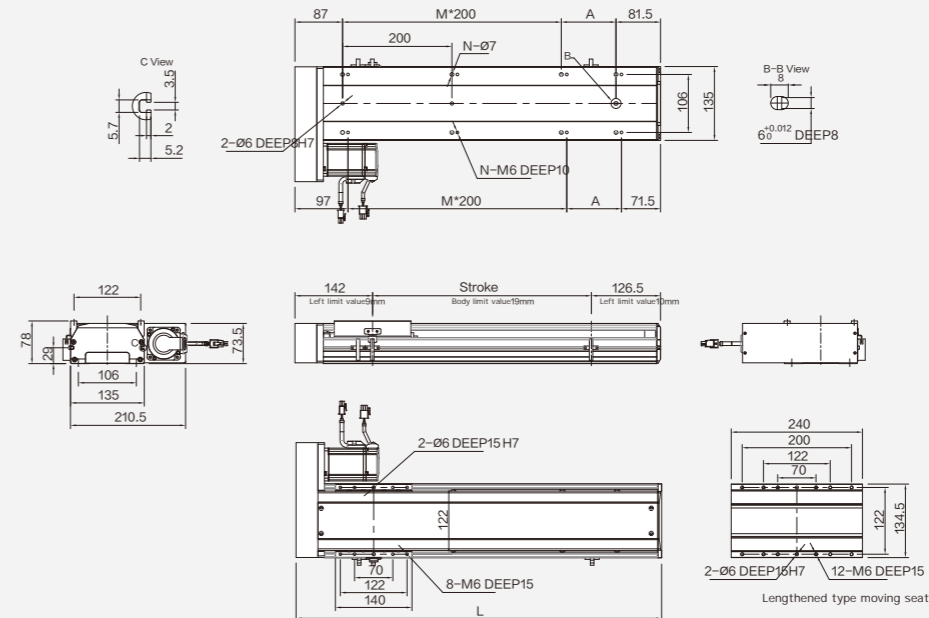
1-axis **KTH14**



(Unit:mm)

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

**BL**



(Unit:mm)

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

**BR**

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

General/ In-line/ Screw sample

ATH  
RTH

General/ Screw sample

DG  
KTH

General/ Electric cylinder sample

DMB  
EMB

General/ In-line/ Belt sample

RTB

General/ Belt sample

DB  
KTB

General/ European/Belt sample

MB

Clean/ In-line/ Screw sample

ACH  
RCH

Clean/ Screw sample

KCH

Clean/ In-line/ Belt sample

RCB

Clean/ Belt sample

KCB

General/ KKT/ Screw sample

KKT

General/ Rack and pinion sample

GR

General/ Linear motor sample

LM

Reference

KTH14

KTH17  
KTH22  
KTH27

DMB5  
DMB10  
DMB20  
DMB30  
DMB40  
EMB5  
EMB10  
EMB20

RTB5  
RTB8  
RTB12  
RTB15

DB100  
DB135  
KTB14M  
KTB17M  
KTB22M

MB65  
MB80  
MB110

ACH4  
ACH5  
ACH8  
ACH12  
ACH15

RCH4  
RCH5  
RCH8  
RCH12  
RCH15

KCH14  
KCH17  
KCH22

RCB5  
RCB8  
RCB12  
RCB15

KCB14  
KCB17  
KCB22

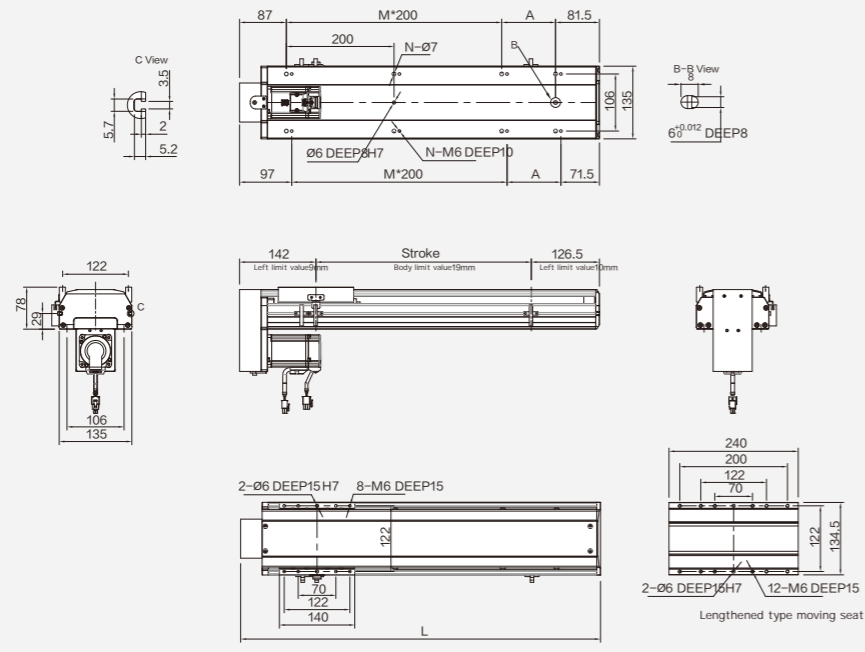
KKT50  
KKT60  
KKT86

GR14  
GR17  
GR22

LM80  
LM140  
LM170  
LM210

Motor bottom side

1-axis **KTH14**



(Unit:mm)

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

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

**BM**

MEMO

Large empty rectangular area for notes or specifications.

ATH3  
ATH4  
ATH5  
ATH8  
ATH12  
ATH15  
RTH4  
RTH5  
RTH8  
RTH12  
DG60  
DG100  
DG135  
KTH13

**KTH14**

KTH17  
KTH22  
KTH27  
DMB5  
DMB10  
DMB20  
DMB30  
DMB40  
EMB5  
EMB10  
EMB20  
RTB5  
RTB8  
RTB12  
RTB15  
DB100  
DB135  
KTB14M  
KTB17M  
KTB22M  
MB65  
MB80  
MB110

ACH4  
ACH5  
ACH8  
ACH12  
ACH15  
RCH4  
RCH5  
RCH8  
RCH12  
KCH14  
KCH17  
KCH22  
RCB5  
RCB8  
RCB12  
RCB15  
KCB14  
KCB17  
KCB22  
KKT50  
KKT60  
KKT86  
GR14  
GR17  
GR22  
LM80  
LM140  
LM170  
LM210

General/  
Inline/  
Screw sample

ATH  
RTH

General/  
Screw sample

DG  
KTH

General/  
Electric cylinder  
sample

DMB  
EMB

General/Inline/  
Belt sample

RTB

General/  
Belt sample

DB  
KTB

General/  
European/Belt  
sample

MB

Clean/Inline/  
Screw sample

ACH  
RCH

Clean/  
Screw sample

KCH

Clean/Inline/  
Belt sample

RCB

無塵/  
皮帶仕様  
Clean/  
Belt sample

KCB

一般/KKT/  
螺桿仕様  
General/KKT/  
Screw sample

KKT

General/  
Rack and  
pinion sample

GR

General/  
Linear motor  
sample

LM

Reference



General screw series

# KTH17

1-axis



Precision  
±0.005 mm

This figure is for reference only. the shipping specifications are detailed in the dimension drawing.

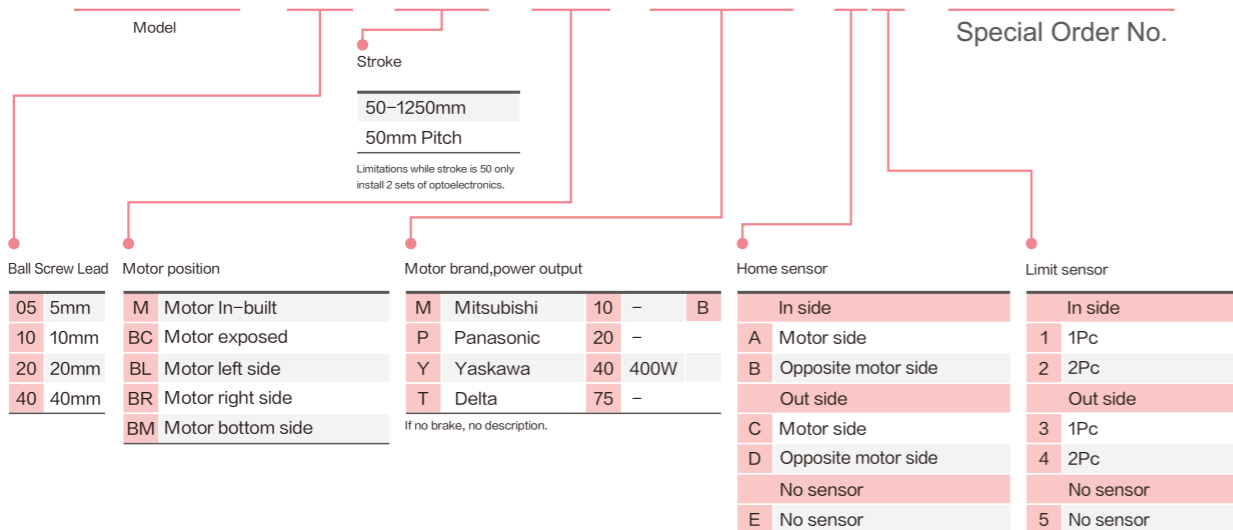
Maximum stroke **1250mm**    Maximum speed **2000mm/s**    Motor capacity **400w/750w**    Ball screw **Ø20mm**

Motor diection



Ordering method

## KTH17 - L5 - 100 - BC - P40B - C4 - Special

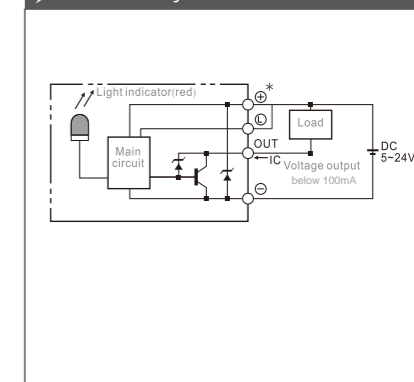


Specification

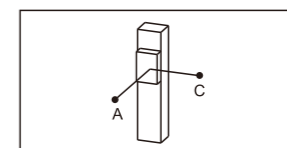
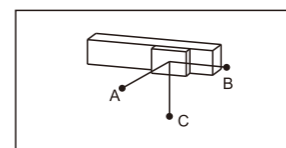
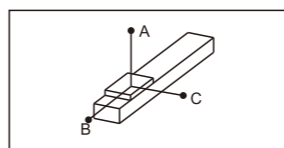
Spec	Repeatability		mm				
			±0.005				
	Ball screw lead		mm				
			5	10	20	40	
	Maximum speed		mm/s				
			250	500	1000	2000	
Maximum payload	Horizontal		kg	120/120	110/120	75/83	22/43
	Vertical		kg	40/50	30/40	14/25	7/12
Rated thrust		N	1388/2563	694/1281	347/640	147/320	
Stroke pitch		mm	50-1250mm/50 pitch				
AC Servo motor output		W	400/750				
Ball screw ø		mm	C7Ø20				
High rigidity linear guide		mm	W20XH15				
Coupling		mm	12X14/12X19				
Home sensor	Outside		EE-SX672(NPN)				
	Built-in		EE-SX674(NPN)				

\* When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.  
\* Acceleration and deceleration value is set 0.2 second.

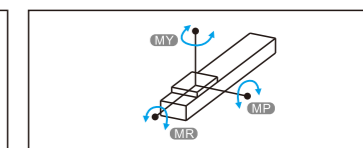
Sensor layout



Allowable overhang



Static loading moment



(Unit:mm)				(Unit:mm)				(Unit:mm)				(Unit:N.m)	
Horizontal Installation	A	B	C	Wall Installation	A	B	C	Vertical Installation	A	C	MY	MP	
Lead 5	70kg	3235/3235	349/349	408/408	75kg	377/377	322/322	2988/2988	20kg	1368/1368	1368/1368	1032/1032	
	90kg	2482/2482	263/263	306/306	95kg	288/288	246/246	2333/2333	30kg	911/911	911/911	1034/1034	
	120kg	1850/1851	187/187	217/218	120kg	218/218	187/187	1850/1850	40/50kg	683/546	683/546	908/908	
Lead 10	65kg	1911/1911	338/338	373/373	60kg	408/408	368/368	2092/2092	15kg	1618/1618	1618/1618		
	85kg	1445/1445	248/248	276/276	80kg	296/296	266/266	1554/1554	25kg	970/970	970/970		
	110/120kg	1102/1000	182/164	202/182	110/120kg	202/182	182/164	1102/1002	30/40kg	808/607	808/607		
Lead 20	35kg	1666/1666	547/547	538/538	30kg	633/633	644/644	1961/1961	10kg	1922/1922	1922/1922		
	55kg	1030/1030	331/331	328/328	50kg	365/365	369/369	1143/1143	14kg	1377/1377	1377/1377		
	75/83kg	733/654	231/206	230/204	75/83kg	230/204	231/206	733/656	0/25kg	0/769	0/769		
Lead 40	15kg	1126/1126	740/740	577/577	12kg	729/729	936/936	1417/1417	4/7kg	2377/1356	2377/1356		
	22kg	755/755	491/491	384/384	22kg	384/384	491/491	755/755	7/12kg	1356/790	1356/790		
	0/43kg	0/366	0/231	0/183	0/43kg	0/183	0/231	0/366	-	-	-		

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

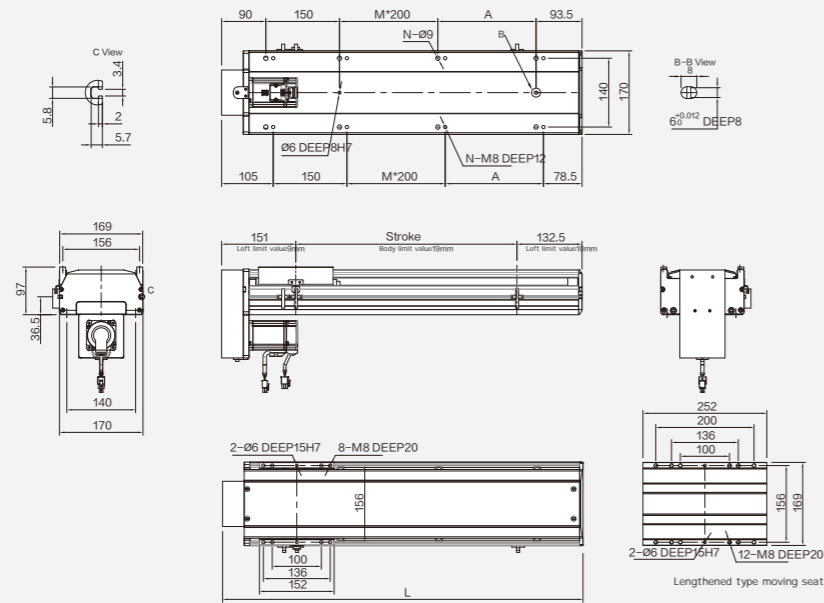
Suitable motor brand

Brand	Mark	Brake	Watt	AC-Voltage	Motor model	Driver model
Mitsubishi	M	No brake(Horizontal type)	400/750	220	HG-KR43/HG-KR73	MR-J4-40A/MR-J4-70A
		With brake(Vertical type)	400/750	220	HG-KR43B/HG-KR73B	MR-J4-40A/MR-J4-70A
Panasonic	P	No brake(Horizontal type)	400/750	220	MHMD042G1U/MHMD082G1U	MBDHT2510/MCDHT3520
		With brake(Vertical type)	400/750	220	MHMD042G1V/MHMD082G1V	MBDHT2510/MCDHT3520
Delta	T	No brake(Horizontal type)	400/750	220	ECMA-C20604ES/ECMA-C20807ES	ASD-B20421-B/ASD-B20721-B
		With brake(Vertical type)	400/750	220	ECMA-C20604FS/ECMA-C20807FS	ASD-B20421-B/ASD-B20721-B



Motor bottom side

1-axis **KTH17**



(Unit:mm)

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

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

**BM**

MEMO

Large empty rectangular area for notes or specifications.

ATH3  
ATH4  
ATH5  
ATH8  
ATH12  
ATH15  
RTH4  
RTH5  
RTH8  
RTH12  
DG60  
DG100  
DG135  
KTH13  
KTH14

**KTH17**

KTH22  
KTH27  
DMB5  
DMB10  
DMB20  
DMB30  
DMB40  
EMB5  
EMB10  
EMB20

RTB5  
RTB8  
RTB12  
RTB15  
DB100  
DB135  
KTB14M  
KTB17M  
KTB22M

MB65  
MB80  
MB110

ACH4  
ACH5  
ACH8  
ACH12  
ACH15

RCH4  
RCH5  
RCH8

RCH12  
KCH14  
KCH17

KCH22  
RCB5  
RCB8

RCB12  
RCB15  
KCB14

KCB17  
KCB22  
KKT50

KKT60  
KKT86  
GR14

GR17  
GR22  
LM80

LM140  
LM170  
LM210

General/  
Inline/  
Screw sample

ATH  
RTH

General/  
Screw sample

DG  
KTH

General/  
Electric cylinder  
sample

DMB  
EMB

General/Inline  
/Belt sample

RTB

General/  
Belt sample

DB  
KTB

General/  
European/Belt  
sample

MB

Clean/Inline/  
Screw sample

ACH  
RCH

Clean/  
Screw sample

KCH

Clean/Inline/  
Belt sample

RCB

Clean/  
Belt sample

KCB

General/KKT/  
Screw sample

KKT

General/  
Rack and  
pinion sample

GR

General/  
Linear motor  
sample

LM

Reference

General screw series

# KTH22

1-axis



Precision  
±0.005 mm

This figure is for reference only. the shipping specifications are detailed in the dimension drawing.

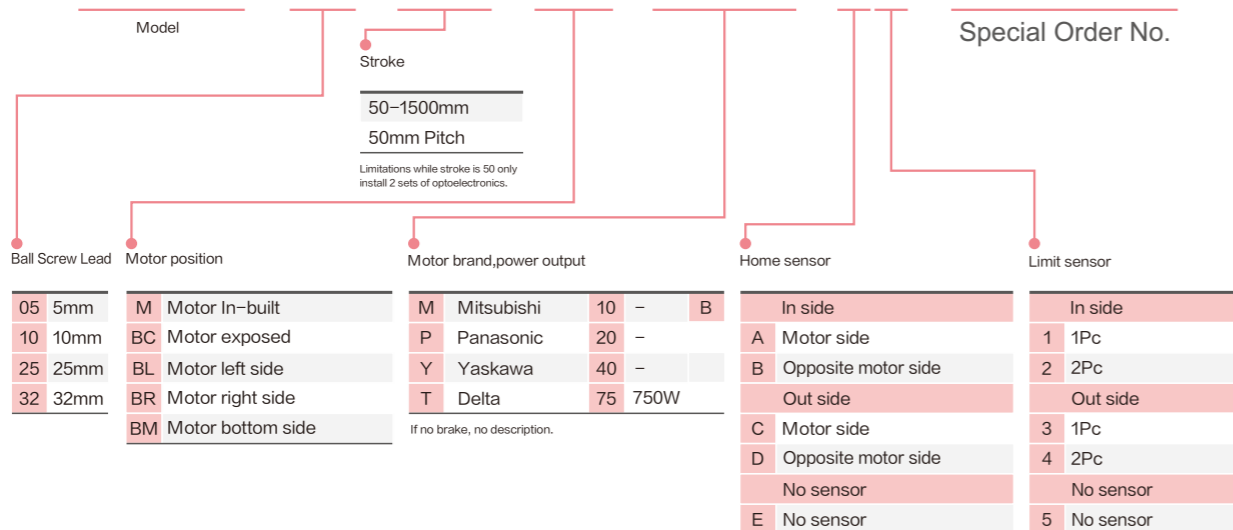
Maximum stroke **1500mm**    Maximum speed **2000mm/s**    Motor capacity **750W**    Ball screw **Ø25mm**

Motor diection



Ordering method

## KTH22 - L5 - 100 - BC - P75B - C4 - Special

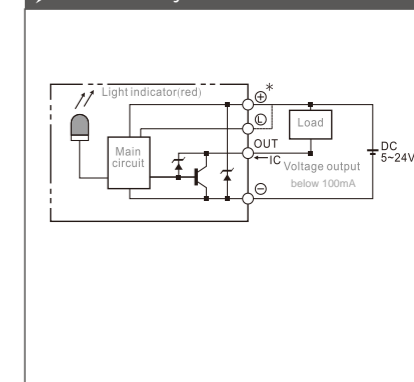


Specification

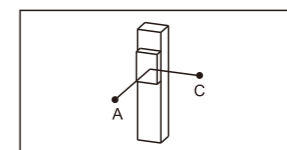
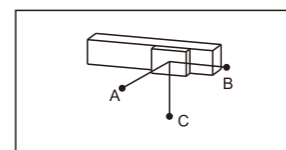
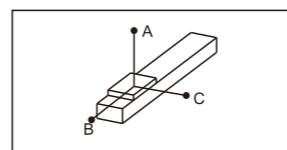
Spec	Repeatability	mm	±0.005				
	Ball screw lead	mm	5	10	25	32	
	Maximum speed	mm/s	250	500	1250	1600	
	Maximum payload	Horizontal	kg	150	150	105	60
		Vertical	kg	55	45	20	20
	Rated thrust	N	2563	1281	640	320	
Stroke pitch	mm	50-1500mm/50 pitch					
Parts	AC Servo motor output	W	750				
	Ball screw φ	mm	C7Ø25		C7Ø32		
	High rigidity linear guide	mm	W23XH18				
	Coupling	mm	17X19		20X19		
	Home sensor	Outside	EE-SX672(NPN)				
Built-in		EE-SX674(NPN)					

\* When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.  
\* Acceleration and deacceleration value is set 0.2 second.

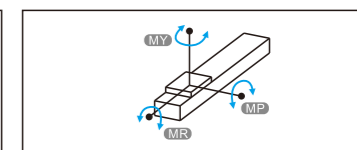
Sensor layout



Allowable overhang



Static loading moment



(Unit:mm)				(Unit:mm)				(Unit:mm)				(Unit:N.m)	
Horizontal Installation	A	B	C	Wall Installation	A	B	C	Vertical Installation	A	C	MY	MP	MR
Lead 5	100kg	5000	633	557	110kg	500	569	4500	30kg	2355	2355	2052	1810
	125kg	3880	491	431	130kg	412	469	3711	40kg	1768	1768	2052	
	150kg	3357	396	347	150kg	347	396	3357	55kg	1288	1288		
Lead 10	100kg	3220	563	474	110kg	427	503	2900	25kg	2505	2505		
	125kg	2554	434	367	130kg	351	414	2444	35kg	1795	1795		
	150kg	2113	349	295	150kg	295	349	2113	45kg	1396	1396		
Lead 25	65kg	1522	614	458	70kg	420	564	1404	15kg	2711	2711		
	85kg	1136	451	336	90kg	315	420	1066	20kg	2033	2033		
	105kg	893	350	262	105kg	262	350	893	-	-	-		
Lead 32	18kg	2445	1616	1052	15kg	1272	1955	2948	7kg	3511	3511		
	30kg	1436	938	613	24kg	778	1190	1813	20kg	2055	2055		
	60kg	978	630	412	60kg	412	630	978	-	-	-		

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

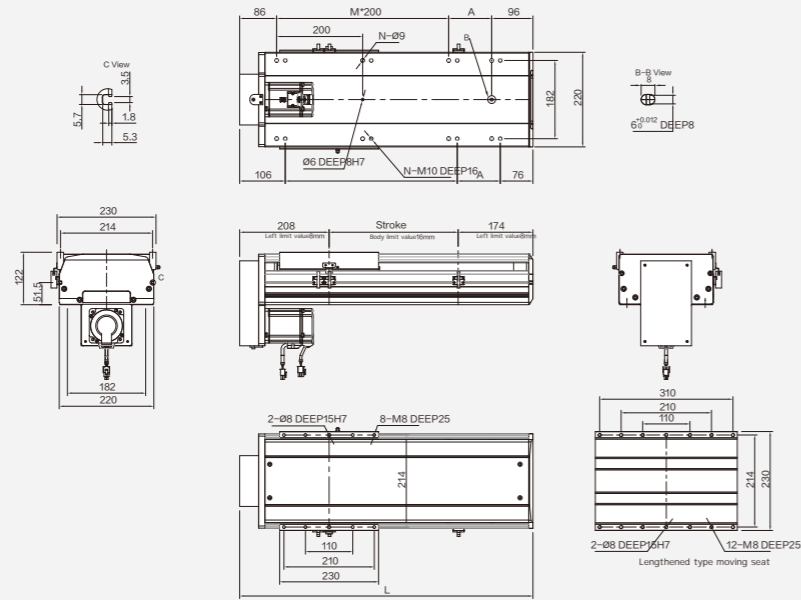
Suitable motor brand

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



Motor bottom side

1-axis **KTH22**



(Unit:mm)

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

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

MEMO

**KTH22**

- KTH27
- DMB5
- DMB1
- DMB20
- DMB30
- DMB40
- EMB5
- EMB10
- EMB20
- RTB5
- RTB8
- RTB12
- RTB15
- DB100
- DB135
- KTB14M
- KTB17M
- KTB22M
- MB65
- MB80
- MB110
- ACH4
- ACH5
- ACH8
- ACH12
- ACH15
- RCH4
- RCH5
- RCH8
- RCH12
- KCH14
- KCH17
- KCH22
- RCB5
- RCB8
- RCB12
- RCB15
- KCB14
- KCB17
- KCB22
- KKT50
- KKT60
- KKT86
- GR14
- GR17
- GR22
- LM80
- LM140
- LM170
- LM210

- General/ Inline/ Screw sample
- ATH
- RTH
- General/ Inline/ Screw sample
- DG
- KTH
- General/ Inline/ Belt sample
- RTB
- General/ Belt sample
- DB
- KTB
- General/ European/Belt sample
- MB
- Clean/ Inline/ Screw sample
- ACH
- RCH
- Clean/ Screw sample
- KCH
- Clean/ Inline/ Belt sample
- RCB
- Clean/ Belt sample
- KCB
- General/ KKT/ Screw sample
- KKT
- General/ Rack and pinion sample
- GR
- General/ Linear motor sample
- LM
- Reference

General screw series

# KTH27

1-axis



Precision  
±0.005 mm

This figure is for reference only. the shipping specifications are detailed in the dimension drawing.

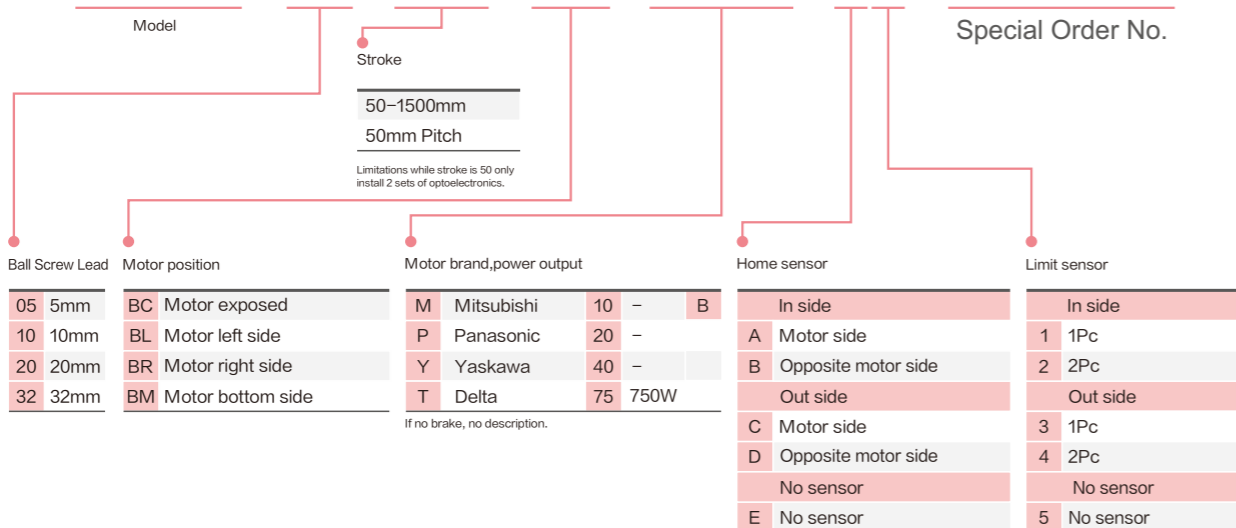
Maximum stroke **1500mm**    Maximum speed **1600mm/s**    Motor capacity **750<sub>w</sub>/1000<sub>w</sub>**    Ball screw **Ø32mm**

Motor diection



Ordering method

## KTH27 - L5 - 100 - BC - P75B - C4 - Special

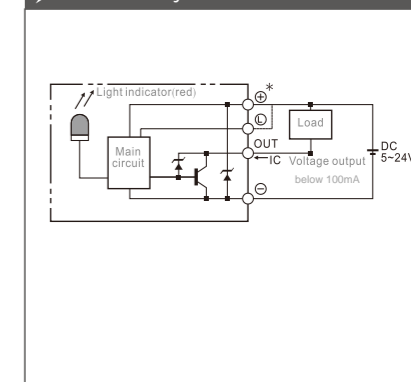


Specification

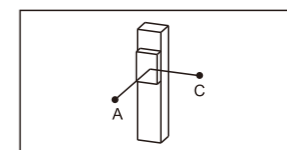
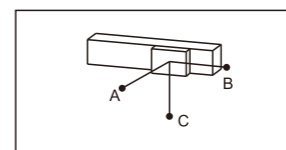
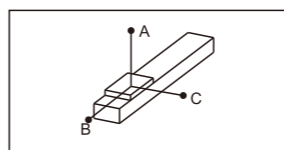
Spec	Repeatability	mm	±0.005				
	Ball screw lead	mm	5	10	20	32	
	Maximum speed	mm/s	250	500	1000	1600	
	Maximum payload	Horizontal	kg	250/350	200/300	100/200	50/100
		Vertical	kg	100/140	80/120	40/80	20/40
	Rated thrust	N	2550/3400	1275/1700	637/850	398/530	
Stroke pitch	mm	50-1500mm/50 pitch					
Parts	AC Servo motor output	W	750/1000				
	Ball screw φ	mm	32				
	High rigidity linear guide	mm	23X18 -2				
	Coupling	mm	19X20				
	Home sensor	Outside		EE-SX672(NPN)			
Built-in			EE-SX674(NPN)				

When the stroke is over 1000mm, the run-out of the ball screw will occur. We recommend to low down the working speed under this circumstances.  
Acceleration and deceleration value is set 0.2 second.

Sensor layout



Allowable overhang



(Unit:mm)

Horizontal Installation	A	B	C
Lead 5	100kg	2672/2672	553/553
	200kg	2000/2000	270/270
	250/350kg	1493/1493	173/173
Lead 10	100kg	1652/1652	799/799
	200kg	775/775	426/426
	0/300kg	0/396	0/217
Lead 20	50kg	1862/1862	856/856
	100kg	1412/1412	481/481
	0/200kg	0/1025	0/273
Lead 32	50kg	1662/1662	656/656
	0/80kg	0/1212	0/281
	0/100kg	0/825	0/73

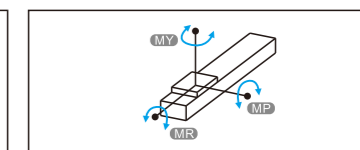
(Unit:mm)

Wall Installation	A	B	C
Lead 5	100kg	695/695	425/425
	200kg	316/316	148/148
	250/350kg	190/190	59/59
Lead 10	100kg	882/882	715/715
	200kg	469/469	342/342
	0/300kg	0/237	0/132
Lead 20	50kg	1107/1107	779/779
	100kg	679/679	404/404
	0/200kg	0/415	0/195
Lead 32	50kg	907/907	579/579
	0/80kg	0/379	0/204
	0/100kg	0/115	0/95

(Unit:mm)

Vertical Installation	A	C
Lead 5	30kg	1688/1688
	50kg	893/893
	100/140kg	640/640
Lead 10	20kg	1297/1297
	30kg	518/518
	80/120kg	500/500
Lead 20	15kg	1767/1767
	20kg	1100/1100
	40/80kg	702/702
Lead 32	15kg	1767/1767
	20kg	1100/1100
	0/40kg	0/702

Static loading moment



(Unit:N.m)

MY	2100
MP	2100
MR	2000

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

Suitable motor brand

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





# Various combinations



# Various combinations



# Motor mounting size

Motor mounting size						
Motor size	□ 38	□ 60	□ 60	□ 80	□ 42.3	□ 86
Shaft diameter	Ø8	Ø11	Ø14	Ø19	Ø5	Ø14
Capacity w	100W	200W	400W	750W	42 Stepping motor	86 Stepping motor
Flange code	A	C	E	G	I	K
Motor mounting size						
Motor size	□ 40	□ 60	□ 60	□ 80	□ 56.4	□ 86
Shaft diameter	Ø8	Ø14	Ø14	Ø19	Ø8	Ø12.7
Capacity w	100W	200W	400W	750W	57 Stepping motor	86 Stepping motor
Flange code	B	D	F	H	J	L

Note: This table is for reference only, subject to actual size.

# Purchase Guide

Ball screw drive/General environment

## RTH Series

### Built-in self-lubricating series

RTH5		RTH5	
	Maximum stroke 850mm Maximum load 25kg Body width 44mm		Maximum stroke 850mm Maximum load 30kg Body width 54mm

RTH8		RTH12	
	Maximum stroke 1100mm Maximum load 50kg Body width 82mm		Maximum stroke 1300mm Maximum load 110kg Body width 120mm



## KTH Series

### General screw series

KTH13		KTH14		KTH17	
	Maximum stroke 1050mm Maximum load 70kg Body width 135mm		Maximum stroke 1050mm Maximum load 110kg Body width 135mm		Maximum stroke 1250mm Maximum load 120kg Body width 170mm

KTH22		KTH27	
	Maximum stroke 1500mm Maximum load 150kg Body width 220mm		Maximum stroke 1500mm Maximum load 350kg Body width 270mm



Ball screw drive/General environment

## KKT Series

### KKT series

KKT50		KKT60		KKT86	
	Maximum track length 300mm Basic dynamic rated load 1813N Basic static load rating 2910N Body width 50mm		Maximum track length 600mm Basic dynamic rated load 3377N Basic static load rating 5625N Body width 60mm		Maximum track length 940mm Basic dynamic rated load 6429N Basic static load rating 11387N Body width 86mm



Rack and pinion/General environment

## GR Series

### Rack and pinion series

GR14		GR17		GR22	
	Maximum stroke 3500mm Maximum load 88kg Body width 135mm		Maximum stroke 3500mm Maximum load 102kg Body width 170mm		Maximum stroke 3500mm Maximum load 150kg Body width 220mm






# Purchase Guide

## RTB Series

RTB series:  
 1. 1.50mm shorter than ATB series  
 2. Compact size for limited installation space.



Inline belt series	
<b>RTB5</b>  Maximum stroke 850mm Maximum load 5kg Body width 54mm	<b>RTB8</b>  Maximum stroke 1750mm Maximum load 15kg Body width 82mm

<b>RTB12</b>  Maximum stroke 1750mm Maximum load 25kg Body width 120mm	<b>RTB15</b>  Maximum stroke 1750mm Maximum load 45kg Body width 155mm
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## KTB Series

General belt series		
<b>KTB14M</b>  Maximum stroke 3050mm Maximum load 25kg Body width 135mm	<b>KTB17M</b>  Maximum stroke 3050mm Maximum load 45kg Body width 170mm	<b>KTB22M</b>  Maximum stroke 3400mm Maximum load 85kg Body width 220mm

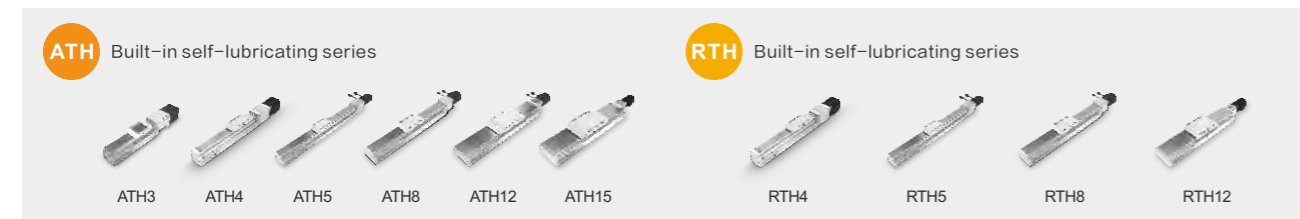
## MB Series

European belt series		
<b>MB65</b>  Maximum stroke 5500mm Maximum load 60kg Body width 65mm	<b>MB80</b>  Maximum stroke 5500mm Maximum load 100kg Body width 80mm	<b>MB110</b>  Maximum stroke 5500mm Maximum load 200kg Body width 110mm



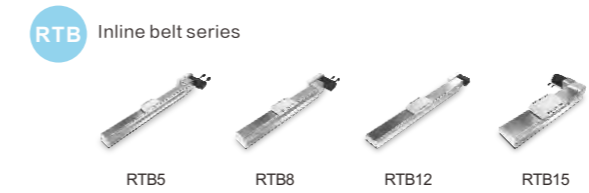
Belt drive/General environment

# Simple Selection Table–Single Axis Series

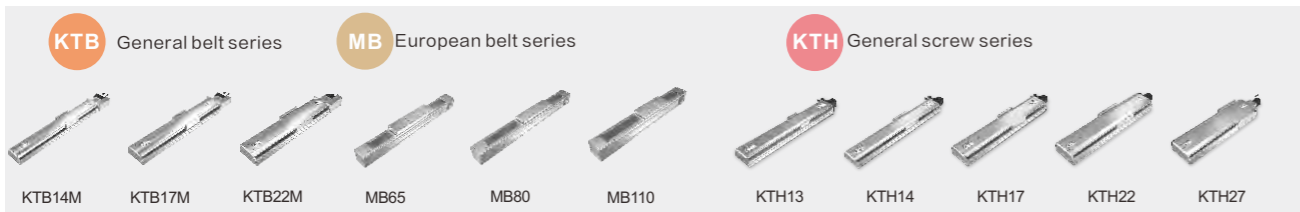


Model Specification	ATH3	ATH4	ATH5	ATH8	ATH12	ATH15		
Motor Output ( W )	50	100	100	200/400	400	400	750	
Repeatability (mm)	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005		
Ball Screw Lead (mm)	1/2/5	2/5/10	5/10/20	5/10/20	5/10/20/32	5/10/20/40		
Maximum speed (mm/s)	50/100/300	100/250/500	250/500/1000	250/500/1000	250/500/1000/1600	250/500/1000/2000		
Maximum payload (kg)	Horizontal	5/5/3	25/20/12	30/15/10	50/30/18	110/88/40/30	120/110/75/22	120/120/83/43
	Vertical	3/2/0.8	8/8/3.5	10/5/2.5	15/8/3	33/22/10/8	40/30/14/7	50/40/25/12
Stroke (mm)	10-200	50-800	50-800	50-1050	50-1250	50-1250		

Model Specification	RTH4	RTH5	RTH8	RTH12	
Motor Output ( W )	100	100	200/400	400	
Repeatability (mm)	± 0.005	± 0.005	± 0.005	± 0.005	
Ball Screw Lead (mm)	2/5/10	5/10/20	5/10/20	5/10/20/32	
Maximum speed (mm/s)	100/250/500	250/500/1000	250/500/1000	250/500/1000/1600	
Maximum payload (kg)	Horizontal	25/20/12	30/15/10	50/30/18	110/88/40/30
	Vertical	8/8/3.5	10/5/2.5	15/8/3	33/22/10/8
Stroke (mm)	50-850	50-850	50-1100	50-1300	



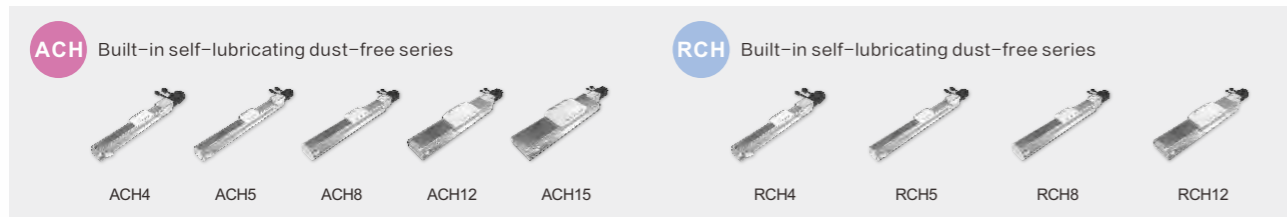
Model Specification	RTB5	RTB8	RTB12	RTB15	
Motor Output ( W )	100	200	200	400	
Repeatability (mm)	± 0.04	± 0.04	± 0.04	± 0.04	
Ball Screw Lead (mm)	30/60	33/66	36/72	42/84	
Maximum speed (mm/s)	1500/3000	1650/3300	1800/3600	2100/4200	
Maximum payload (kg)	Horizontal	5	15	25	45
	Vertical	-	-	-	-
Stroke (mm)	50-850	50-1750	50-1750	50-1750	



Model Specification	KTB14M	KTB17M	KTB22M	MB65	MB80	MB110	
Motor Output ( W )	200	400	750	400	400/750	750	
Repeatability (mm)	± 0.04	± 0.04	± 0.04	± 0.1	± 0.1	± 0.1	
Ball Screw Lead (mm)	40	40	40	130	200	280	
Gearbox Ratio	-	-	-	3:1/5:1/7:1/10: 1	5:1/7:1/10:1	10:1/15:1/20:1	
Maximum speed (mm/s)	2000	2000	2000	2166/1300/928/650	2000/1428/1000	1400/933/700	
Maximum payload (kg)	Horizontal	25	45	85	30/45/55/60	40/60/100	100/150/200
	Vertical	-	-	-	9/15/16/17	14/21/24	23/36/50
Stroke (mm)	50-3050	50-3050	50-3400	100-5500	100-5500	100-5500	

Model Specification	KTH13	KTH14		KTH17		KTH22	KTH27		
Motor Output ( W )	200/400	200	400	400	750	750	750	1000	
Repeatability (mm)	± 0.005	± 0.005		± 0.005		± 0.005	± 0.005		
Ball Screw Lead (mm)	5/10/20/32	5/10/20/32		5/10/20/40		5/10/25/32	5/10/20/32		
Maximum speed (mm/s)	250/500/1000/1600	250/500/1000/1600		250/500/1000/2000		250/500/1250/1600	250/500/1000/1600		
Maximum payload (kg)	Horizontal	70/47/24/13	95/75/35/15	110/88/40/30	120/110/75/22	120/120/83/43	150/150/105/60	250/200/100/50	350/300/200/100
	Vertical	17/12/6/-	27/18/7/-	33/22/10/8	40/30/14/7	50/40/25/12	55/45/20/20	100/80/40/20	140/120/80/40
Stroke (mm)	50-1050	50-1050		50-1250		50-1500	100-1500		

# Simple Selection Table-Single Axis Series



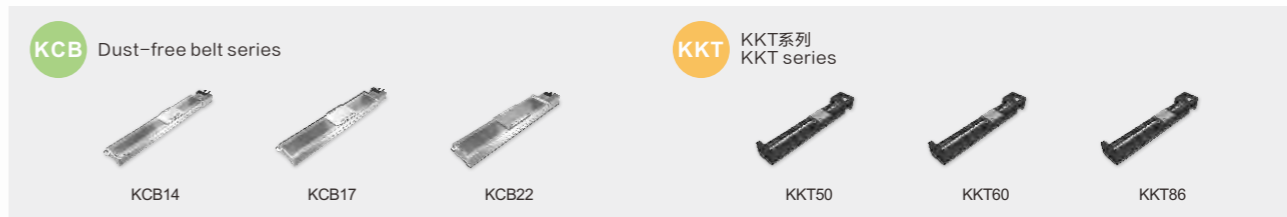
Model Specification	ACH4	ACH5	ACH8	ACH12	ACH15	
Motor Output ( W )	100	100	200/400	400	400	750
Repeatability (mm)	±0.005	±0.005	±0.005	±0.005	±0.005	
Ball Screw Lead (mm)	2/5/10	5/10/20	5/10/20	5/10/20/32	5/10/20/40	
Maximum speed (mm/s)	100/250/500	250/500/1000	250/500/1000	250/500/1000/1600	250/500/1000/2000	
Maximum payload (kg)	Horizontal	25/20/12	30/15/10	50/30/18	110/88/40/30	120/110/75/22 120/120/83/43
	Vertical	8/8/3.5	10/5/2.5	15/8/3	33/22/10/8	40/30/14/7 50/40/25/12
Stroke (mm)	50-800	50-800	50-1050	50-1250	50-1250	

Model Specification	RCH4	RCH5	RCH8	RCH12
Motor Output ( W )	100	100	200/400	400
Repeatability (mm)	±0.005	±0.005	±0.005	±0.005
Ball Screw Lead (mm)	2/5/10	5/10/20	5/10/20	5/10/20/32
Maximum speed (mm/s)	100/250/500	250/500/1000	250/500/1000	250/500/1000/1600
Maximum payload (kg)	Horizontal	25/20/12	30/15/10	50/30/18 110/88/40/30
	Vertical	8/8/3.5	10/5/2.5	15/8/3 33/22/10/8
Stroke (mm)	50-850	50-850	50-1100	50-1300



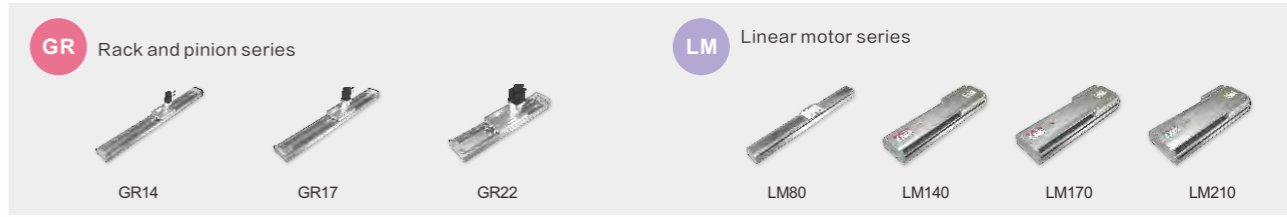
Model Specification	KCH14		KCH17		KCH22	
Motor Output ( W )	200	400	400	750	750	
Repeatability (mm)	±0.005		±0.005		±0.005	
Ball Screw Lead (mm)	5/10/20/32		5/10/20/40		5/10/25/32	
Maximum speed (mm/s)	250/500/1000/1600		250/500/1000/2000		250/500/1250/1600	
Maximum payload (kg)	Horizontal	95/75/35/15	110/88/40/30	120/110/75/22	120/120/83/43	150/150/105/60
	Vertical	27/18/7/-	33/22/10/8	40/30/14/7	50/40/25/12	55/45/20/20
Stroke (mm)	50-1050		50-1250		50-1500	

Model Specification	RCB5	RCB8	RCB12	RCB15	
Motor Output ( W )	100	200	200	400	
Repeatability (mm)	±0.04	±0.04	±0.04	±0.04	
Ball Screw Lead (mm)	30/60	33/66	36/72	42/84	
Maximum speed (mm/s)	1500/3000	1650/3300	1800/3600	2100/4200	
Maximum payload (kg)	Horizontal	5	15	25	45
	Vertical	-	-	-	-
Stroke (mm)	50-850	50-1750	50-1750	50-1750	



Model Specification	KCB14	KCB17	KCB22	
Motor Output ( W )	200	400	750	
Repeatability (mm)	±0.04	±0.04	±0.04	
Ball Screw Lead (mm)	40	40	40	
Maximum speed (mm/s)	2000	2000	2000	
Maximum payload (kg)	Horizontal	25	45	85
	Vertical	-	-	-
Stroke (mm)	50-3050	50-3050	50-3400	

Model Specification	KKT50	KKT60	KKT86	
Motor Output ( W )	100	100	100/200	
Repeatability (mm)	±0.01	±0.01	±0.01	
Ball Screw Lead (mm)	2	5/10	10/20	
Maximum speed (mm/s)	270	390/790	520/1050	
load	Dynamic load rating(N)	1813	3377/2107	6429/4175
	Rated static load(N)	2910	5625/3234	11387/6889
Lehgth (mm)	150/200/250/300	150/200/300/400/500/600	340/440/540/640/740/940	



Model Specification	GR14	GR17	GR22	
Motor Output ( W )	400	750	750	
Repeatability (mm)	±0.04	±0.04	±0.04	
Gearbox Ratio	3:1/5:1/7:1/10:1	3:1/5:1/7:1/10:1	3:1/5:1/7:1/10:1	
Gear lead (mm)	33.32/19.99/14.28/10.00	48.87/29.32/20.94/14.66	48.87/29.32/20.94/14.66	
Maximum speed (mm/s)	1665/1000/715/500	2443/1466/1047/733	1633/966/700/486	
Maximum payload (kg)	Horizontal	30/40/64/88	31/63/83/102	43/105/128/150
	Vertical	8/10/18/22	9/18/25/33	12/20/33/45
Stroke (mm)	1000-3500	1000-3500	1000-3500	

Model Specification	LM80	LM140			LM170			LM210			
Standard thrust	82	81	152	218	122	230	330	161	302	435	
Repeatability (mm)	MG ± 0.005 / RG ± 0.003	MG ± 0.005 / RG ± 0.003			MG ± 0.005 / RG ± 0.003			MG ± 0.005 / RG ± 0.003			
Maximum speed (mm/s)	4000	3000			3000			3000			
Thrust	Continuous thrust (N)	82	81	152	218	233	230	330	161	302	435
	Peak thrust (N)	256.7	265	534	791	417	840	1241	568	1146	1700
Stroke (mm)	100-1900	72-3816	82-3730	96-3648	72-5832	85-5746	96-5664	72-3816	82-3730	96-3648	

**Lim-Tec**<sup>®</sup>

Feb.25,2016 Lim-tec successfully landed on NEEQ with the code 836388, leading the new height of linear motion development in China.

Ever since 2005, Joint Venture Enterprise Lim-tec (Beijing) Transmission Equipment Co.,Ltd was set up by Limtec Group and Beijing Reloh International Trade Co., Ltd to introduce European most advanced linear motion technology and the concept of modular combination design, guide the new direction of development for domestic screw jack, electric actuator and slide industry.

Based in Beijing China, we have more than 10 offices distributed throughout the country to provide high-quality products, full range of technical support and prompt after-sales service at home and abroad.Up to now, there were more than 100000 sets of products successful used in automobile equipment, automation assembly, metallurgical industry,aerospace industry,port machinery and other industries.

Established automation assembly department in the year of 2008,Lim-tec has researched and developed six-DOF platform,servo pressure system, simulator and some other non-standard automation equipment.

With the gradual popularization of industry strategy 4.0 and the development of industry 5.0,green and sustainable products lead the tread in society.As the essential components supplier for industry automation robot,Lim-tec products will get considerable development.It's just a starting for Lim-tec second take-off on NEEQ,80 millions RMB have been re-invested to bring in advanced processing equipment and expand production capacity to more than 50 thousand sets per year,to build Lim-tec the world's most competitive and professional linear actuator/screw jack/servo actuator /electric slide manufacturing base.

