

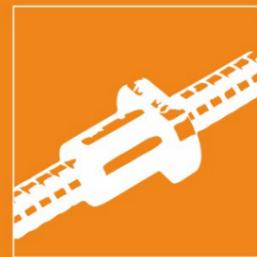
KTH Series

Standard/Ball Screw



CONTENTS

Ball Screw Driven



High Accuracy, High Payload

The screw drive actuator is easy to achieve high accuracy, long life and high stability;
 The repositioning accuracy is up to ± 0.01 – ± 0.005 mm;
 5 kg ~ 150 kg extremely wide load adaptability is offered;
 It is widely used in automation equipment and production lines in various industries.

MEDIUM

KTH10



Width: 102mm
 Max.stroke: 1050mm...137
 Max.payload: 50kg

MEDIUM

KTH14



Width: 135mm
 Max.stroke: 1050mm...169
 Max.payload: 110kg

MEDIUM

KTH12



Width: 102mm
 Max.stroke: 1050mm...147
 Max.payload: 50kg

LARGE

KTH17



Width: 170mm
 Max.stroke: 1250mm...181
 Max.payload: 120kg

MEDIUM

KTH13



Width: 135mm
 Max.stroke: 1050mm...157
 Max.payload: 70kg

Low price
 Medium load

LARGE

KTH22



Width: 220mm
 Max.stroke: 1500mm...191
 Max.payload: 150kg

High load

Standard Ball Screw Actuator

Environment	Driven Mode	Specification	Motor Output (w)	Width(mm)	Repeatability (mm)	Ball Screw Spec		Maximum Payload(kg)		Maximum Speed*1 (mm/s)	Stroke(mm) & Maximum Speed(mm/s)																	Page		
						Outer Diameter (mm)	Lead(mm)	Horizontal	Vertical		Speed																			
											Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		850	900
Standard	Ball screw	KTH14	200W	135	±0.01	16	5	95	27	250																		169		
							10	75	18	500																				
							20	35	7	1000																				
							32	15	-	1600																				
		KTH14	400W	135	±0.01	16	5	110	33	250																		175		
							10	88	22	500																				
							20	40	10	1000																				
							32	30	8	1600																				
		KTH17	400W	170	±0.01	20	5	120	40	250																		181		
							10	110	30	500																				
							20	75	14	1000																				
							40	22	7	2000																				
	KTH17	750W	170	±0.01	20	5	120	50	250																		187			
						10	120	40	500																					
						20	83	25	1000																					
						40	43	12	2000																					
	KTH22	750W	220	±0.01	25	5	150	55	250																		191			
						25	10	150	45	500																				
						25	25	105	20	1250																				
						20	40	43	12	2000																				

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

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

*2: The ETH17M、ETH22M highest speed is based on the maximum servo motor's rpm (2400)

KTH10 1-axis

Ball Screw Drive

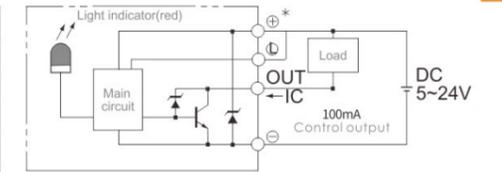
KTH10 1-axis



Specification

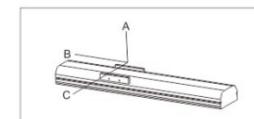
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	341	170	85	53	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W20XH18				
	Coupling (mm)	10X8				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



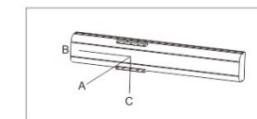
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation.

Allowable Moment



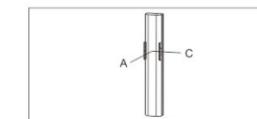
(Unit: mm)

Horizontal Installation	A	B	C
5 Lead	30kg	547	42
	40kg	391	29
	50kg	298	22
10 Lead	15kg	521	84
	25kg	298	47
	30kg	242	37
20 Lead	5kg	675	224
	10kg	330	107
	18kg	175	55
32 Lead	3kg	486	259
	5kg	288	152
	-	-	-



(Unit: mm)

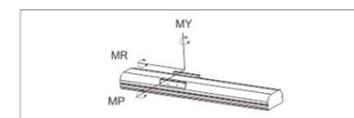
Wall Installation	A	B	C
5 Lead	25kg	52	53
	35kg	35	35
	50kg	21	22
10 Lead	10kg	124	131
	20kg	58	61
	30kg	35	37
20 Lead	6kg	160	185
	12kg	76	88
	18kg	48	55
32 Lead	2kg	300	393
	5kg	116	152
	-	-	-



(Unit: mm)

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

Static Loading Moment



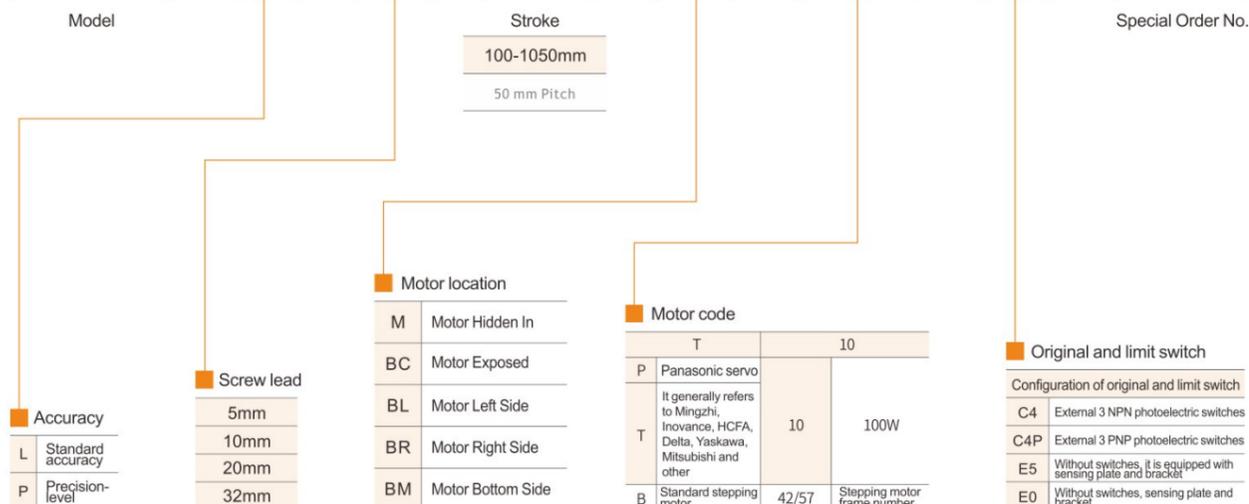
(Unit: mm)

MY	110
MP	110
MR	120

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

Ordering Method

KTH10 - L 10 - 300 - BC - P10 - C4 - D123

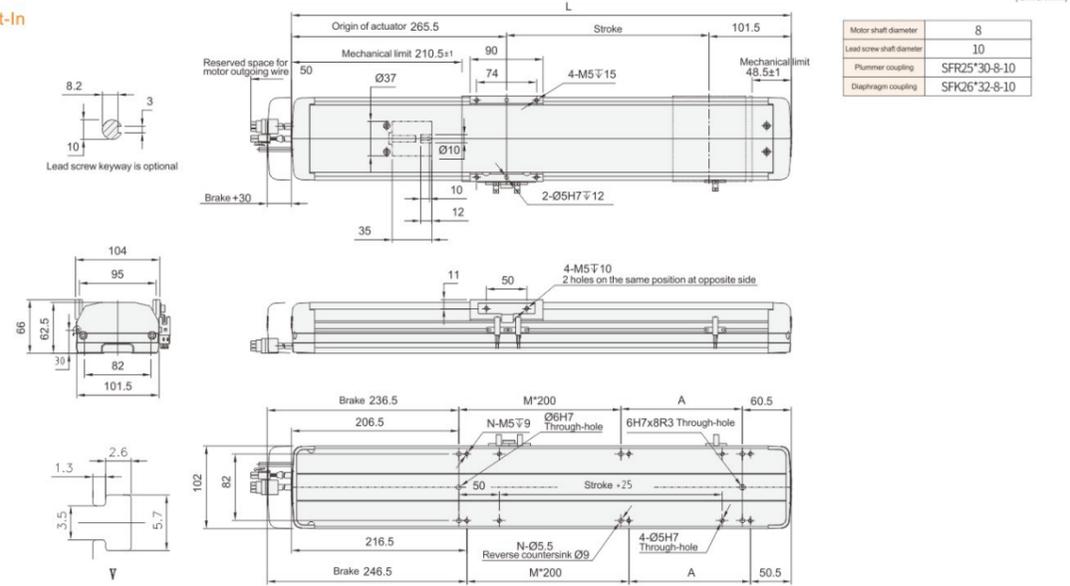


KTH10 1-axis

Ball Screw Drive

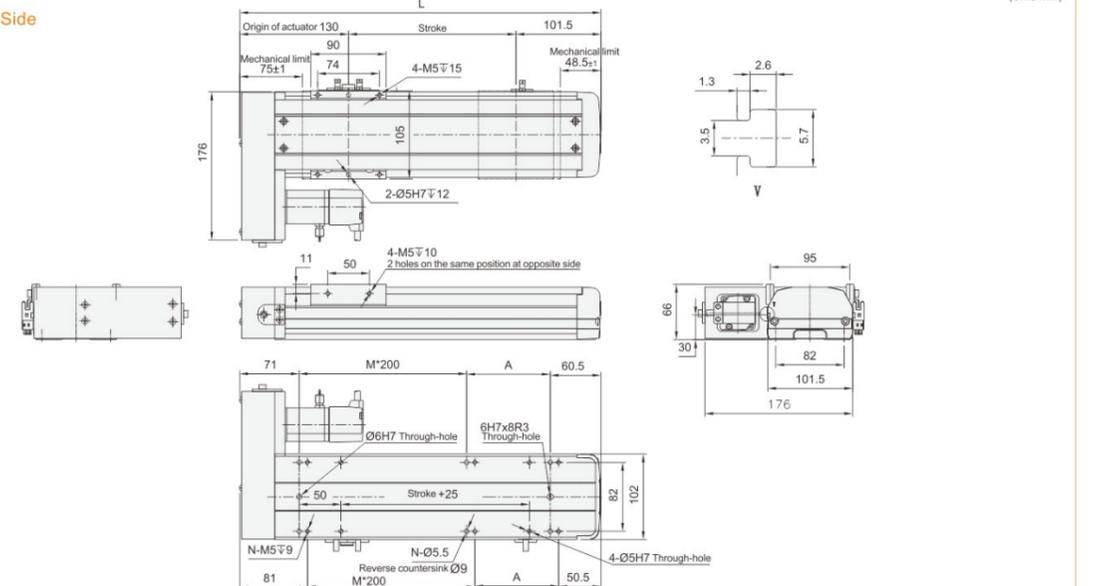
KTH10 1-axis

M Motor Built-In



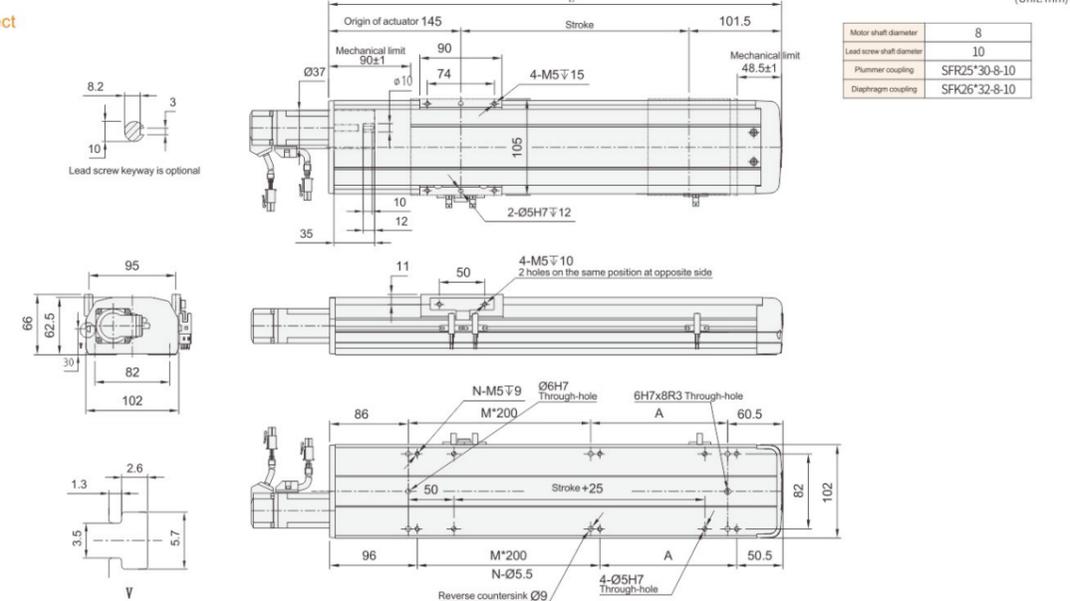
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N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

BL Motor Left Side



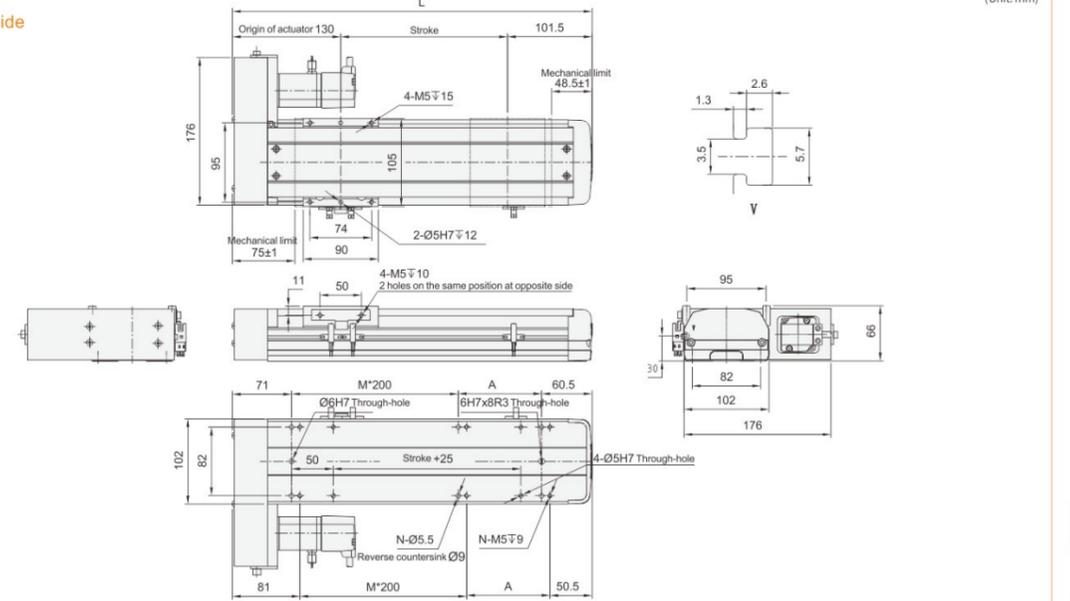
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1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

BC Motor Direct



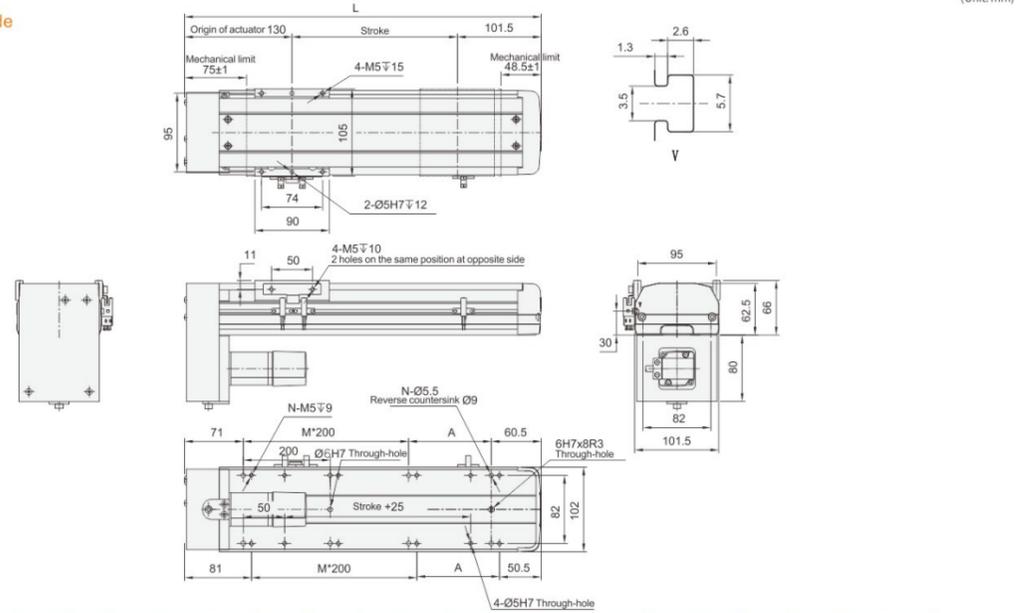
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	346.5	396.5	446.5	496.5	546.5	596.5	646.5	696.5	746.5	796.5	846.5	896.5	946.5	996.5	1046.5	1096.5	1146.5	1196.5	1246.5	1296.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	4.64	5.02	5.41	5.79	6.18	6.56	6.95	7.33	7.72	8.10	8.49	8.87	9.26	9.64	10.03	10.41	10.8	11.18	11.57	11.95

BR Motor Right Side



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

BM Motor Bottom Side



(Unit: mm)

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

MEMO

KTH10 1-axis

Ball Screw Drive

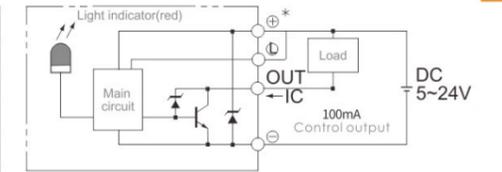
KTH10 1-axis



Specification

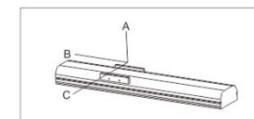
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	683	341	213	174	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W20XH18				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



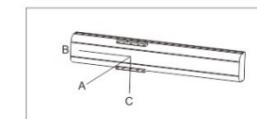
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



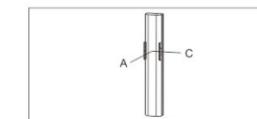
(Unit: mm)

Horizontal Installation	A	B	C
5 Lead	30kg	547	42
	40kg	391	29
	50kg	298	22
10 Lead	15kg	521	84
	25kg	298	47
	30kg	242	37
20 Lead	5kg	675	224
	10kg	330	107
	18kg	175	55
32 Lead	3kg	486	259
	5kg	288	152
	-	-	-



(Unit: mm)

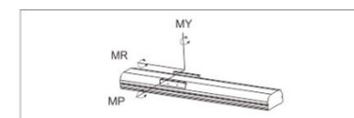
Wall Installation	A	B	C
5 Lead	25kg	52	53
	35kg	35	35
	50kg	21	22
10 Lead	10kg	124	131
	20kg	58	61
	30kg	35	37
20 Lead	6kg	160	185
	12kg	76	88
	18kg	48	55
32 Lead	2kg	300	393
	5kg	116	152
	-	-	-



(Unit: mm)

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

Static Loading Moment



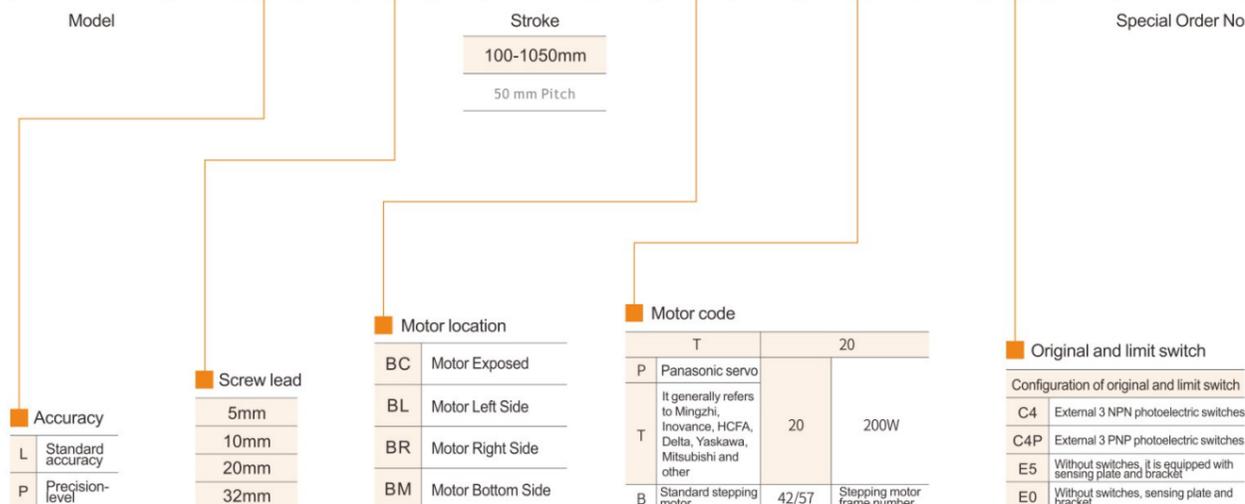
(Unit: mm)

MY	110
MP	110
MR	120

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

Ordering Method

KTH10 - L 10 - 300 - BC - P20 - C4 - D123

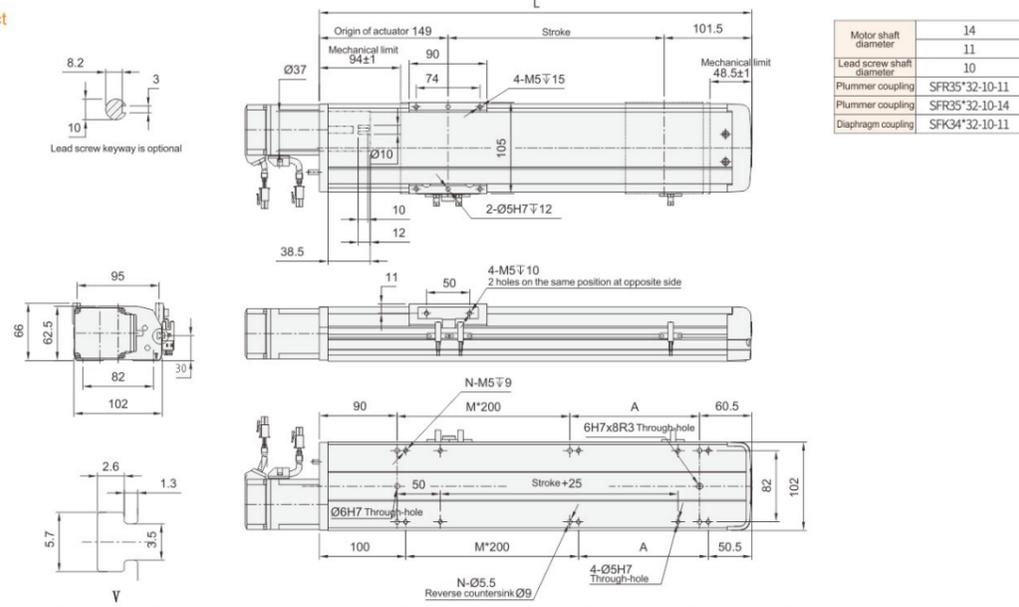


KTH10 1-axis

Ball Screw Drive

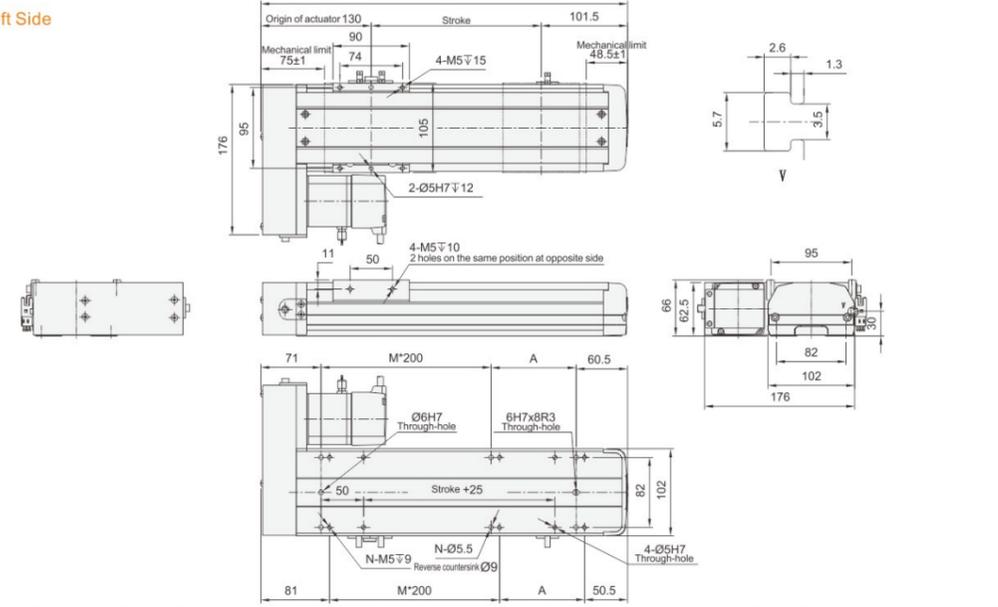
KTH10 1-axis

BC Motor Direct



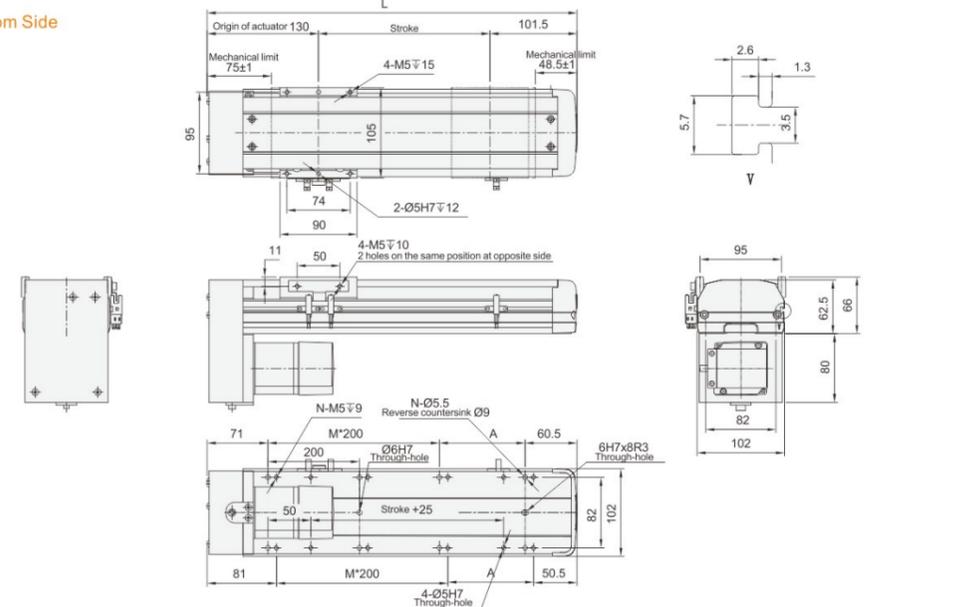
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.32	5.7	6.08	6.46	6.84	7.22	7.6	7.98	8.36	8.74	9.12	9.5	9.88	10.26	10.64	11.02	11.4	11.78	12.16	12.54

BL Motor Left Side



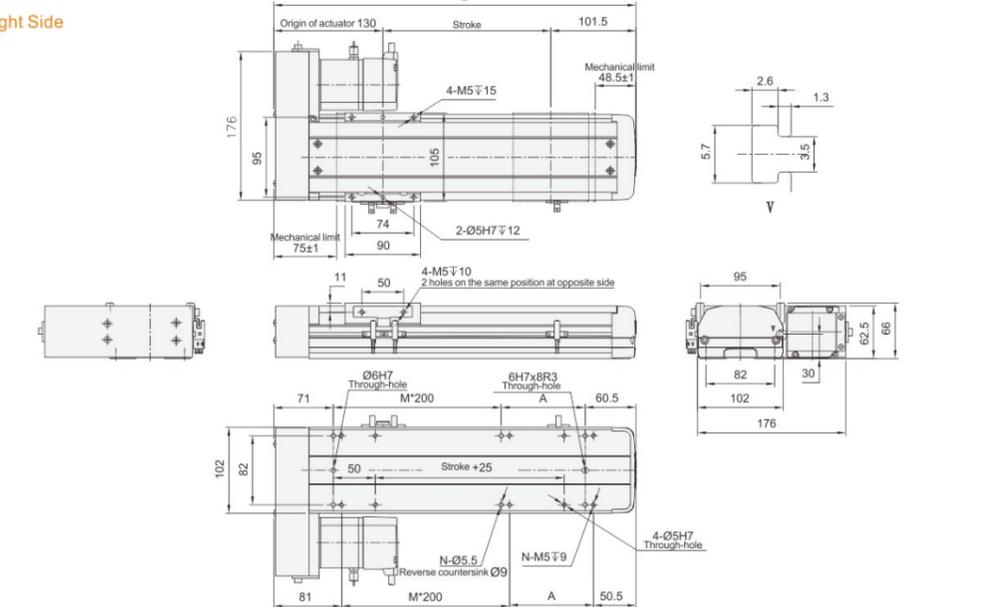
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.45	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.52	5.93	6.32	6.71	7.1	7.49	7.88	8.27	8.66	9.05	9.44	9.83	10.22	10.61	11	11.39	11.78	12.17	12.56	12.95

BM Motor Bottom Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	331.5	381.5	431.5	481.5	531.5	581.5	631.54	681.5	731.5	781.5	831.5	881.5	931.45	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.52	5.93	6.32	6.71	7.1	7.49	7.88	8.27	8.66	9.05	9.44	9.83	10.22	10.61	11	11.39	11.78	12.17	12.56	12.95

BR Motor Right Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.45	981.5	1031.5	1081.5	1131.5	1181.5	1231.5	1281.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.52	5.93	6.32	6.71	7.1	7.49	7.88	8.27	8.66	9.05	9.44	9.83	10.22	10.61	11	11.39	11.78	12.17	12.56	12.95

- KTH10
- KTH12
- KTH13
- KTH14
- KTH17
- KTH22

- KTH10
- KTH12
- KTH13
- KTH14
- KTH17
- KTH22

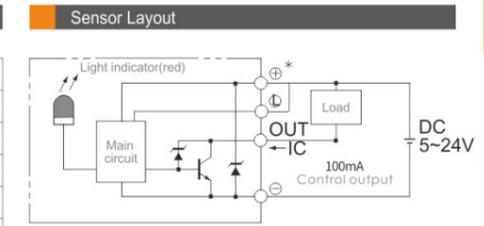
KTH12 1-axis

Ball Screw Drive

KTH12 1-axis



Specification		±0.01				
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	341	170	85	53	
Stroke Pitch (mm)		100-1050mm/50 mm Pitch				
Parts	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X8				
Home Sensor	Outside	EE-SX672(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.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment

Horizontal Installation		(Unit: mm)		
		A	B	C
5 Lead	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
10 Lead	15kg	875	138	157
	25kg	485	73	83
	30kg	386	56	64
20 Lead	5kg	1160	384	386
	10kg	561	180	181
	18kg	288	88	89
32 Lead	3kg	822	444	385
	5kg	492	255	224
	-	-	-	-

Wall Installation		(Unit: mm)		
		A	B	C
5 Lead	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
10 Lead	10kg	250	221	1311
	20kg	110	97	633
	30kg	64	56	385
20 Lead	6kg	317	316	955
	12kg	147	144	455
	18kg	89	88	288
32 Lead	2kg	591	682	1256
	5kg	224	255	488
	-	-	-	-

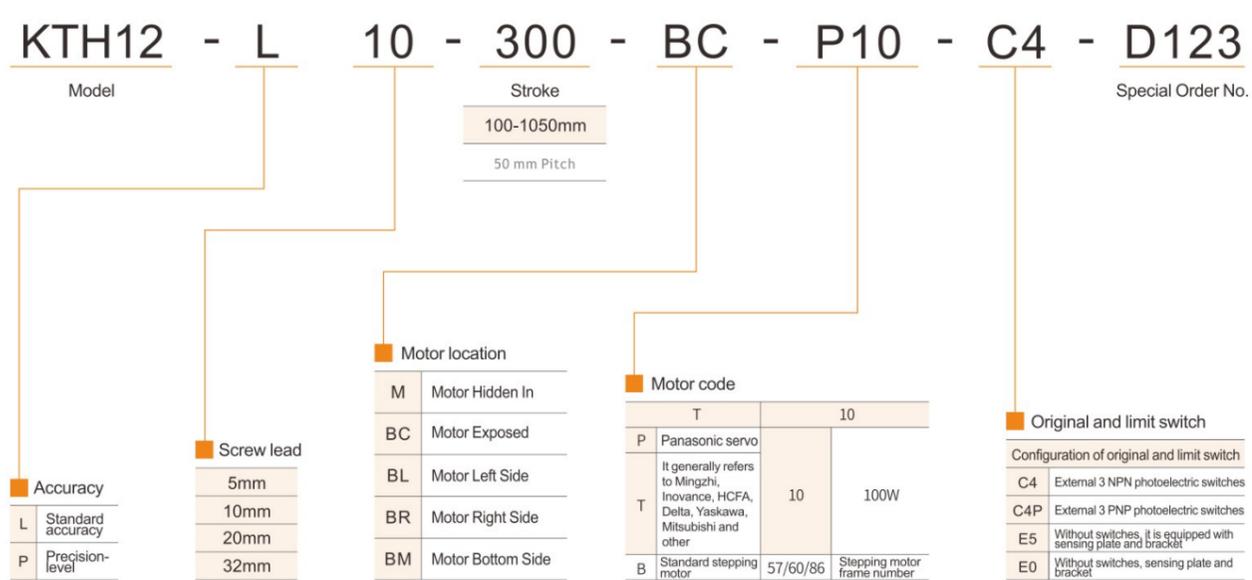
Vertical Installation		(Unit: mm)	
		A	C
5 Lead	5kg	544	544
	8kg	341	341
	12kg	227	227
10 Lead	4kg	606	606
	8kg	303	303
	-	-	-
20 Lead	2kg	961	961
	3kg	639	639
	-	-	-

Static Loading Moment

Moment	Value (Unit: mm)
MY	150
MP	150
MR	130

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

Ordering Method

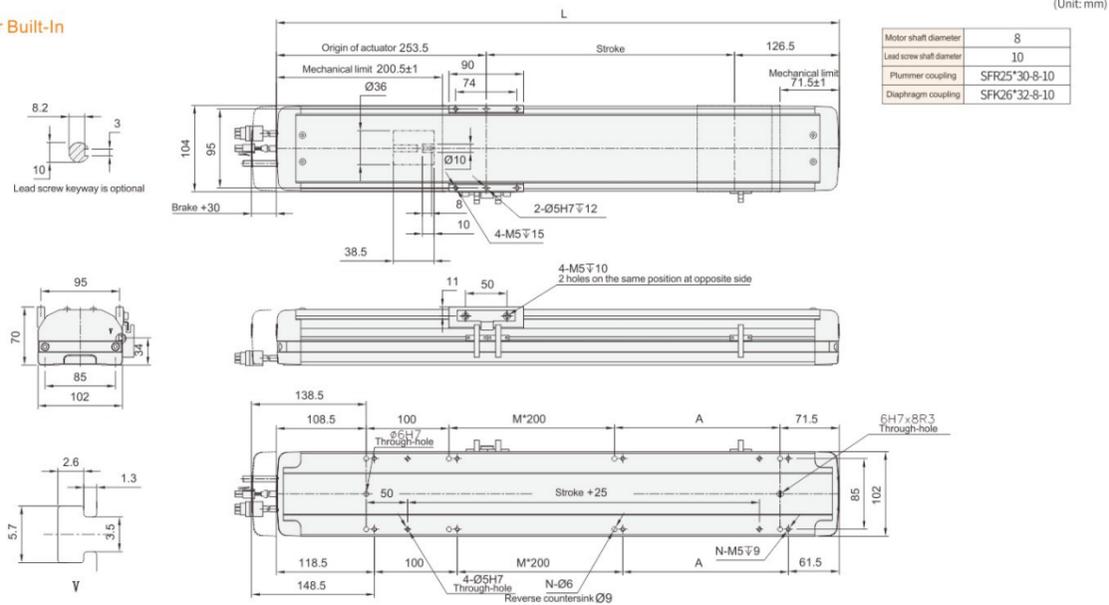


KTH12 1-axis

Ball Screw Drive

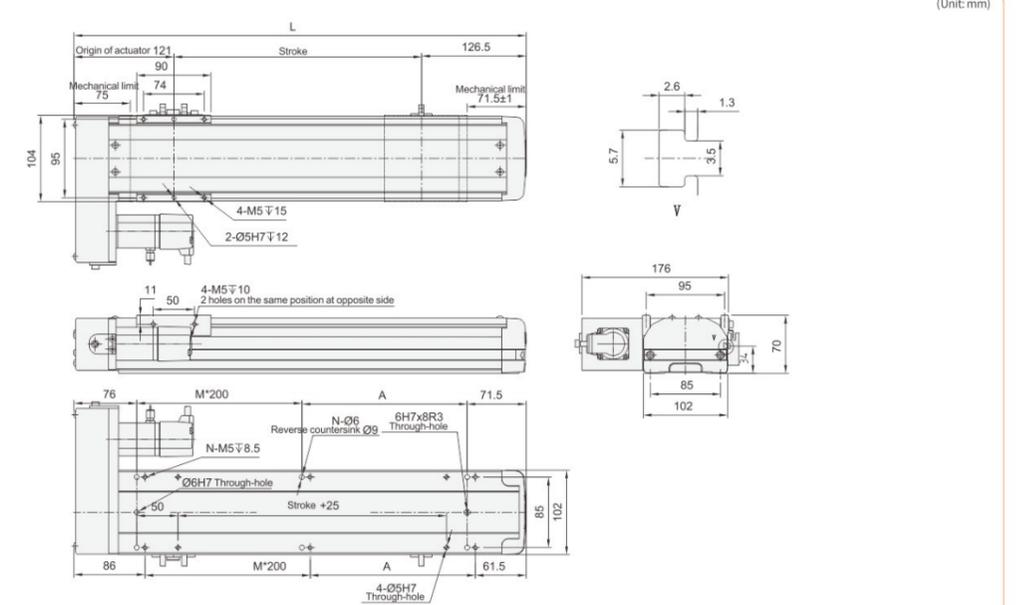
KTH12 1-axis

M Motor Built-In



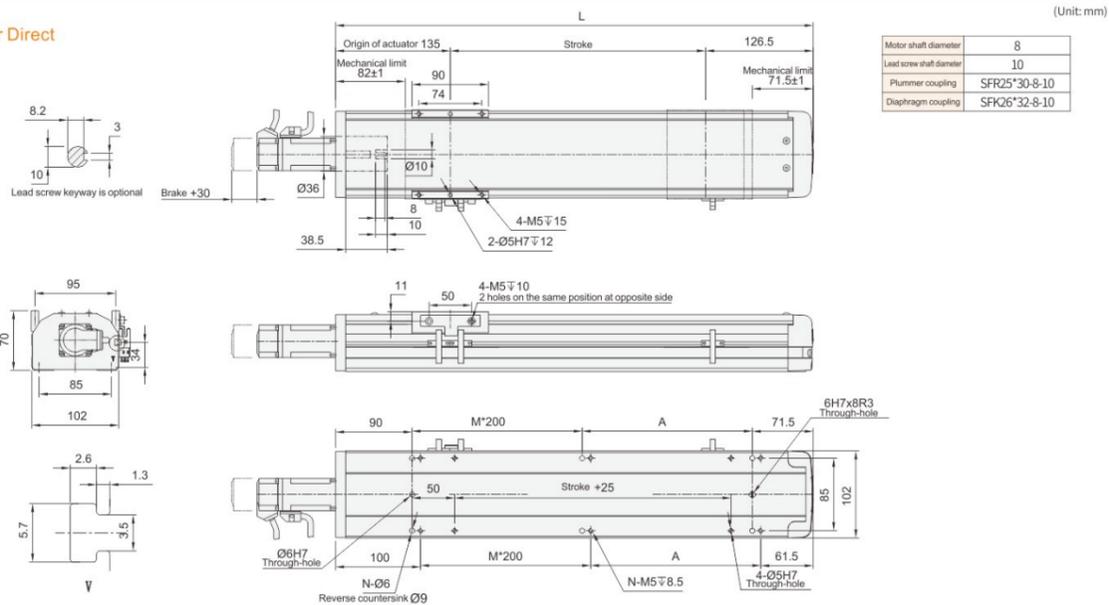
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N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

BL Motor Left Side



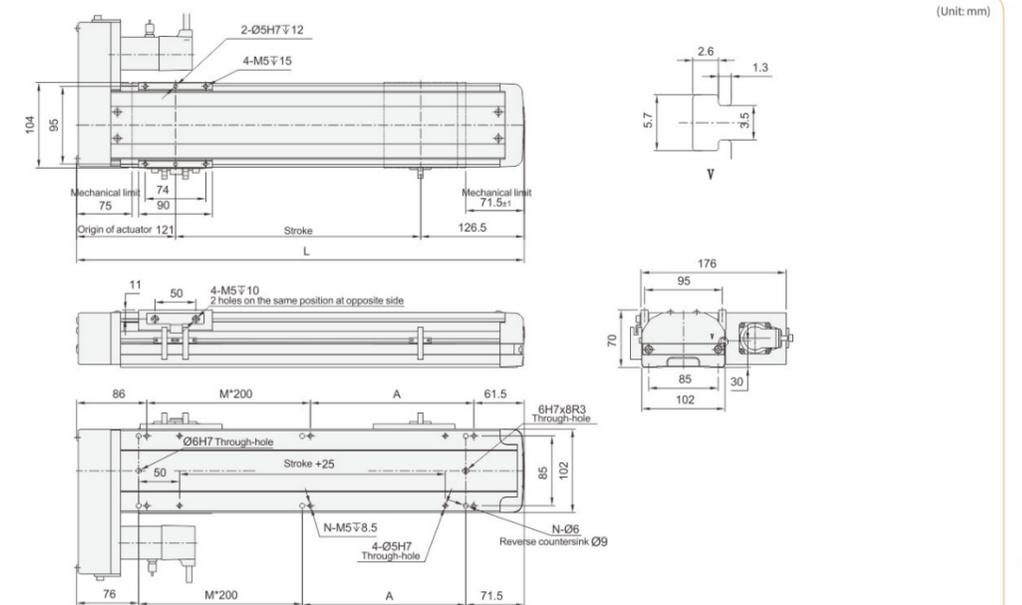
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.10	10.48	10.87	11.26	11.64	12.03	12.42	12.81

BC Motor Direct



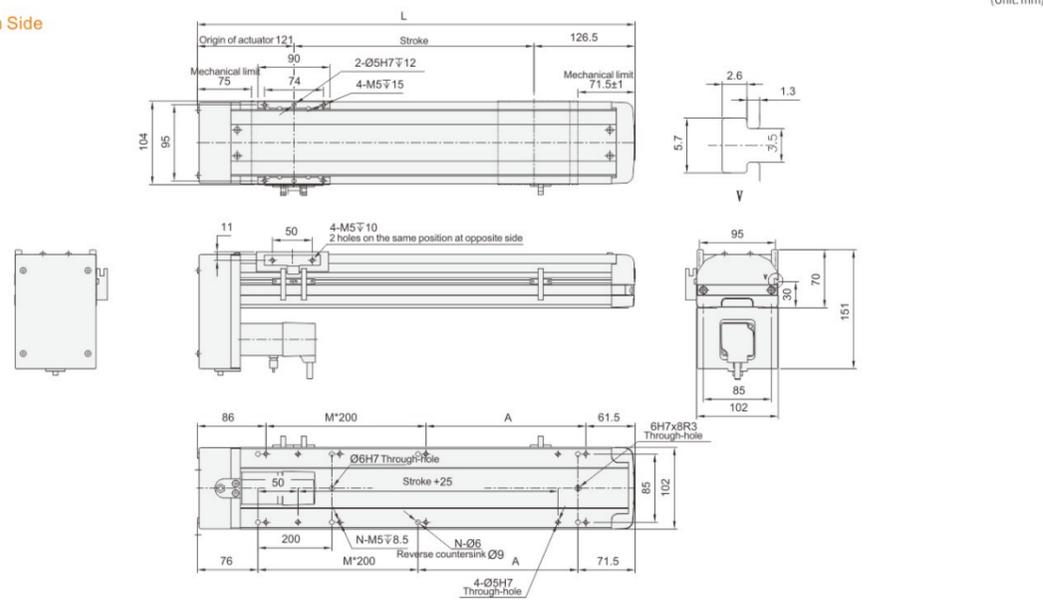
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5	1011.5	1061.5	1111.5	1161.5	1211.5	1261.5	1311.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1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

BR Motor Right Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.10	10.48	10.87	11.26	11.64	12.03	12.42	12.81

BM Motor Bottom Side



(Unit: mm)

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.45	5.84	6.23	6.61	7	7.39	7.77	8.16	8.55	8.94	9.32	9.71	10.10	10.48	10.87	11.26	11.64	12.03	12.42	12.81

MEMO

KTH12 1-axis

Ball Screw Drive

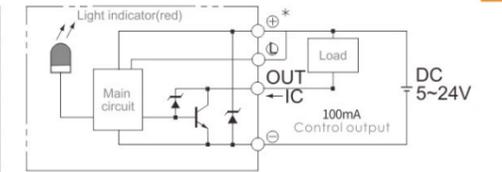
KTH12 1-axis



Specification

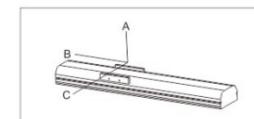
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	683	341	213	174	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



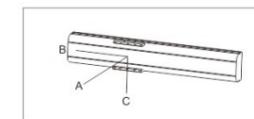
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



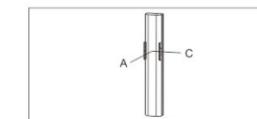
(Unit: mm)

Horizontal Installation	Load	A	B	C
		5 Lead	30kg 882	65
5 Lead	40kg	606	43	51
	50kg	437	29	35
	15kg	875	138	157
10 Lead	25kg	485	73	83
	30kg	386	56	64
	5kg	1160	384	386
20 Lead	10kg	561	180	181
	18kg	288	88	89
	3kg	822	444	385
32 Lead	5kg	492	255	224
	-	-	-	-
	-	-	-	-



(Unit: mm)

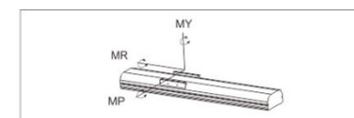
Wall Installation	Load	A	B	C
		5 Lead	25kg 100	84
5 Lead	35kg	63	52	725
	50kg	35	29	433
	10kg	250	221	1311
10 Lead	20kg	110	97	633
	30kg	64	56	385
	6kg	317	316	955
20 Lead	12kg	147	144	455
	18kg	89	88	288
	2kg	591	682	1256
32 Lead	5kg	224	255	488
	-	-	-	-
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



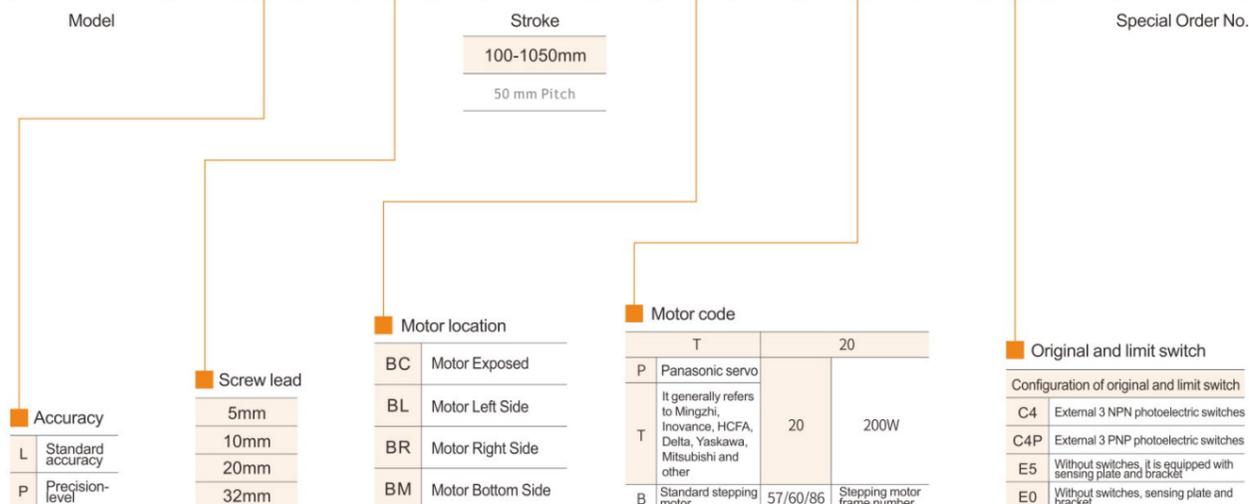
(Unit: mm)

MY	150
MP	150
MR	130

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

Ordering Method

KTH12 - L 10 - 300 - BC - P20 - C4 - D123



KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

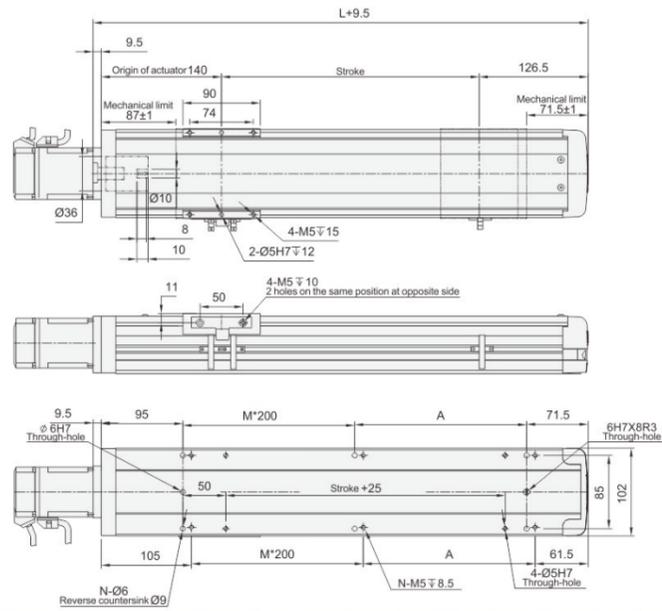
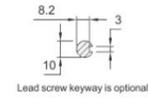
KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

KTH12 1-axis

Ball Screw Drive

KTH12 1-axis

BC Motor Direct

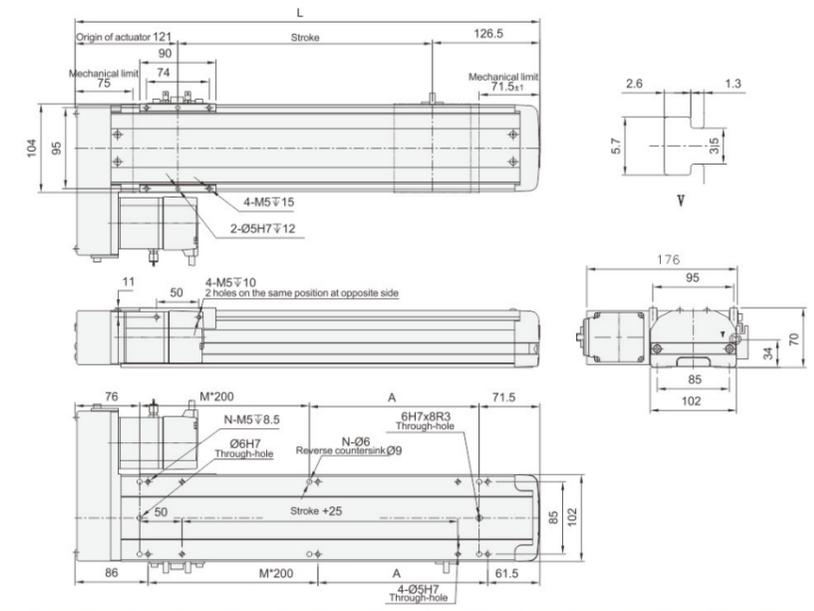


Motor shaft diameter	14
Lead screw shaft diameter	11
Plummer coupling	SFR35°32-10-11
Plummer coupling	SFR35°32-10-14
Diaphragm coupling	SFK34°32-10-11

(Unit: mm)

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

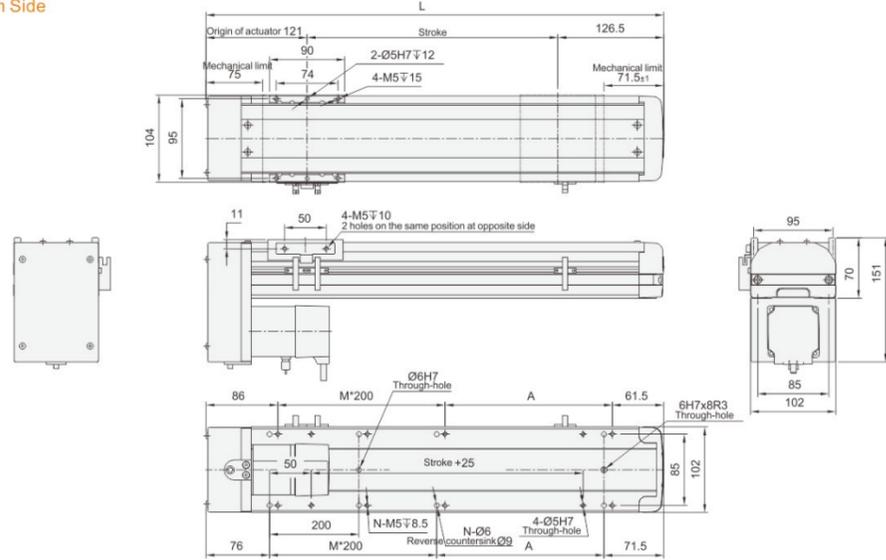
BL Motor Left Side



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

(Unit: mm)

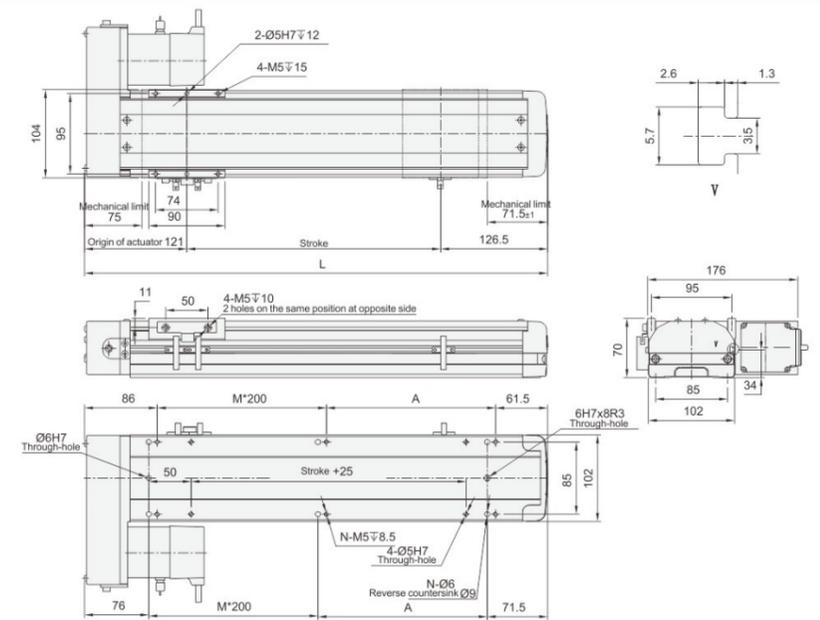
BM Motor Bottom Side



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

(Unit: mm)

BR Motor Right Side



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

(Unit: mm)

KTH13 1-axis

Ball Screw Drive

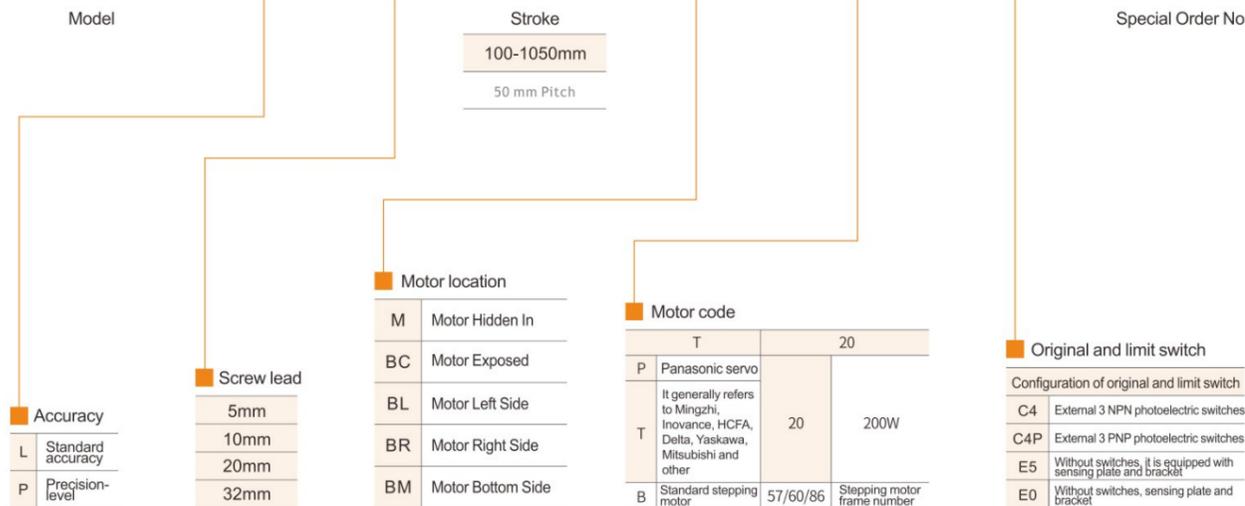
KTH13 1-axis



Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 200W Ball Screw Ø16mm Linear Guide 15x12.5-2

Ordering Method

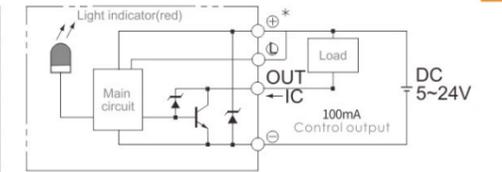
KTH13 - L 10 - 300 - BC - P20 - C4 - D123



Specification

Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	70	47	24	13
		Vertical (kg)	17	12	6	-
	Rated Thrust (N)	683	341	174	107	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



※ 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.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment

Horizontal Installation (Unit: mm)

Lead	Weight	A	B	C
5	40kg	795	63	225
	55kg	558	43	155
	70kg	422	32	115
10	25kg	588	95	276
	35kg	410	65	190
	47kg	295	46	135
20	6kg	1068	355	710
	15kg	416	136	275
	24kg	252	81	166
32	7kg	385	205	298
	13kg	204	106	156
	-	-	-	-

Wall Installation (Unit: mm)

Lead	Weight	A	B	C
5	30kg	310	88	1066
	50kg	172	49	620
	70kg	115	32	422
10	20kg	351	122	743
	30kg	225	78	484
	47kg	135	46	294
20	5kg	852	428	1227
	12kg	345	173	522
	24kg	166	81	253
32	6kg	350	240	453
	13kg	155	106	204
	-	-	-	-

Vertical Installation (Unit: mm)

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

Static Loading Moment

Point	Value (Unit: mm)
MY	174
MP	175
MR	153

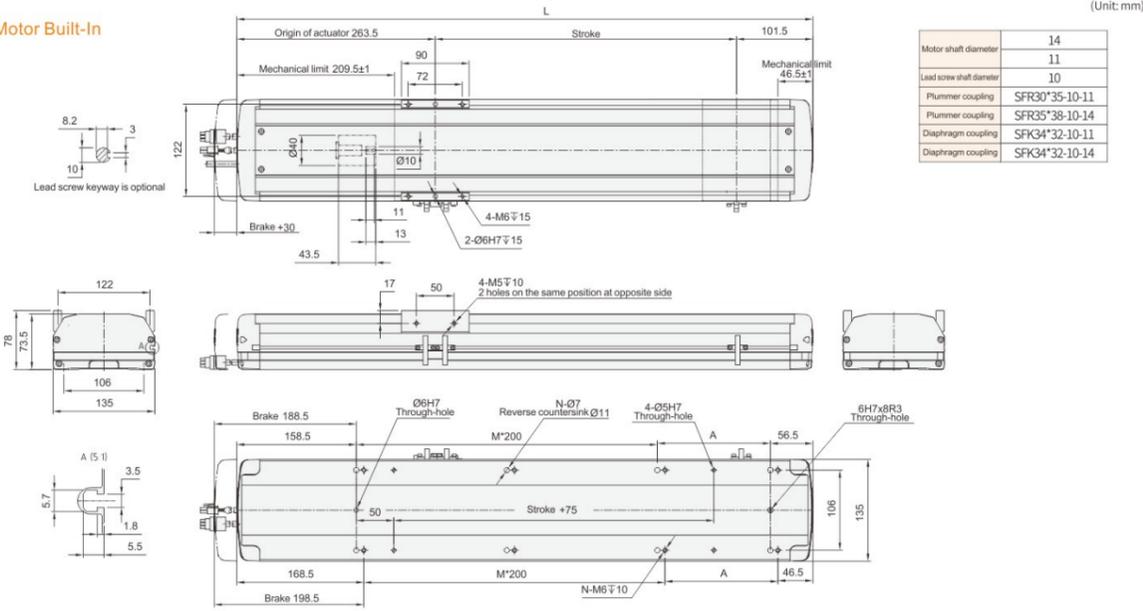
※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

KTH13 1-axis

Ball Screw Drive

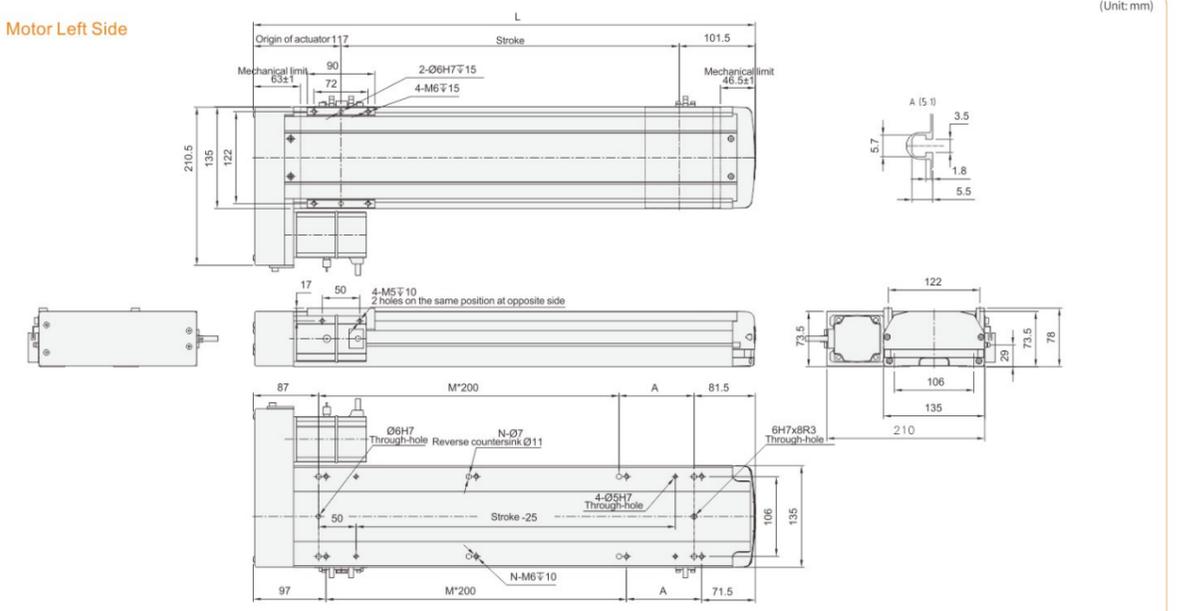
KTH13 1-axis

M Motor Built-In



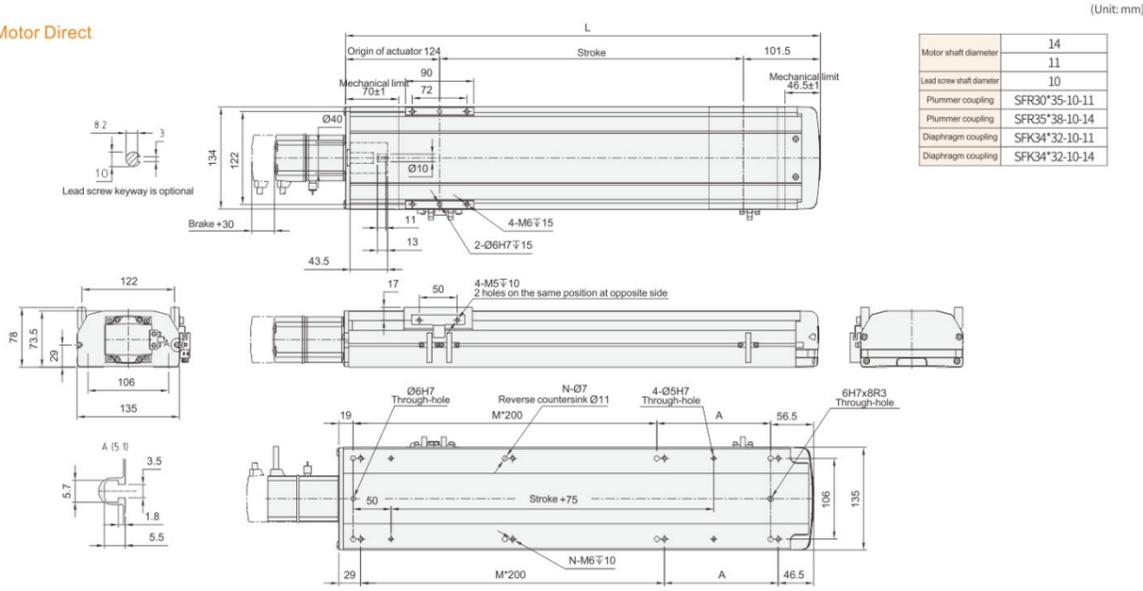
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

BL Motor Left Side



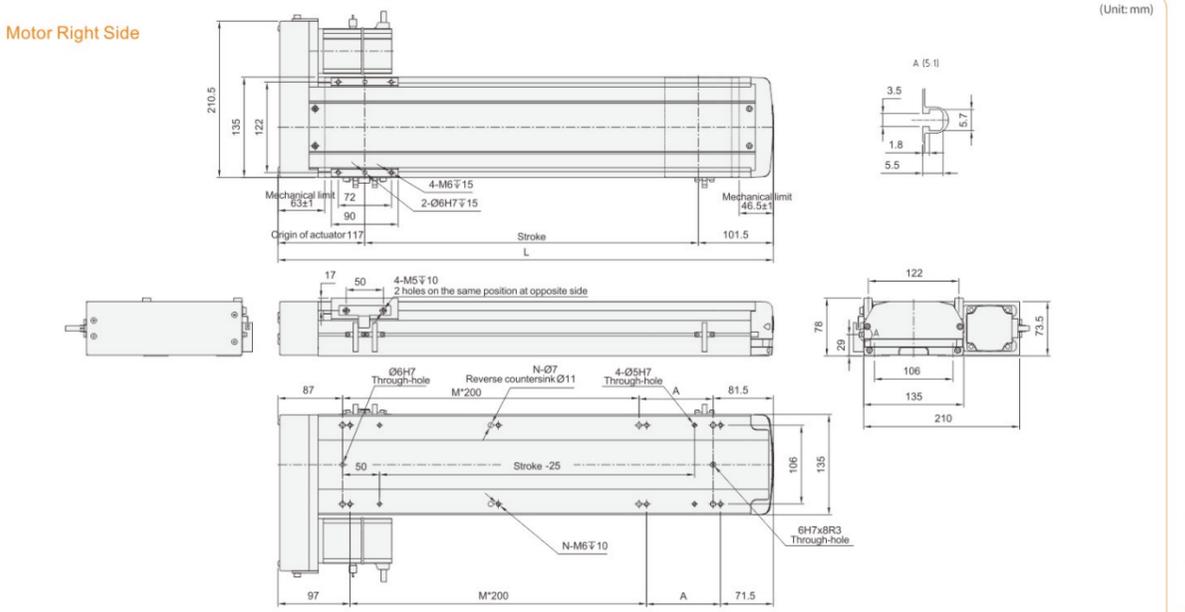
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	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

BC Motor Direct



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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	15.80	16.36	16.92	17.48	18.04	18.60

BR Motor Right Side

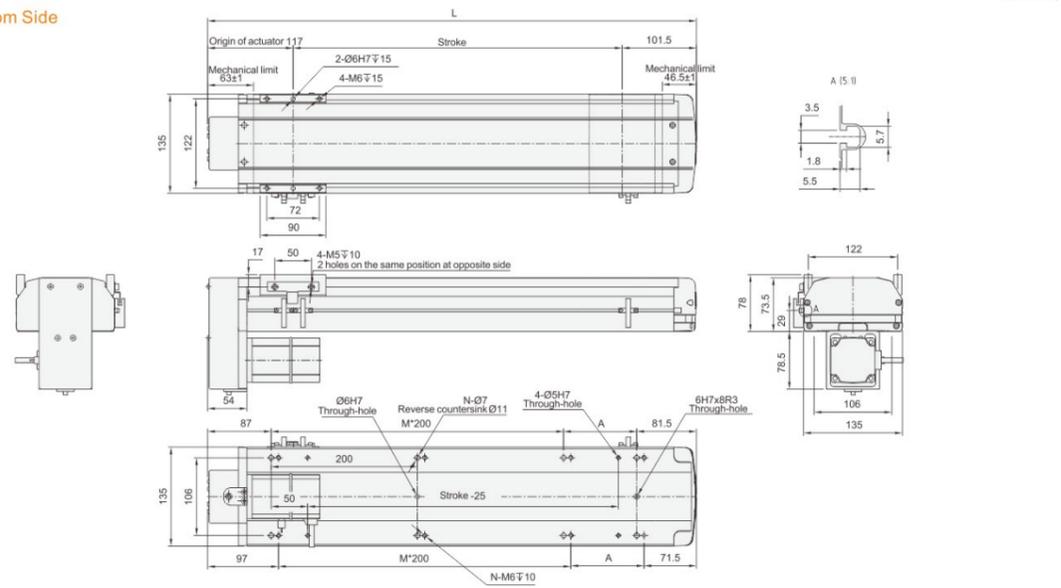


stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	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

KTH13 1-axis

Ball Screw Drive

BM Motor Bottom Side



stroke	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	
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	12	14	14
KG	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	

MEMO

KTH13 1-axis

Ball Screw Drive

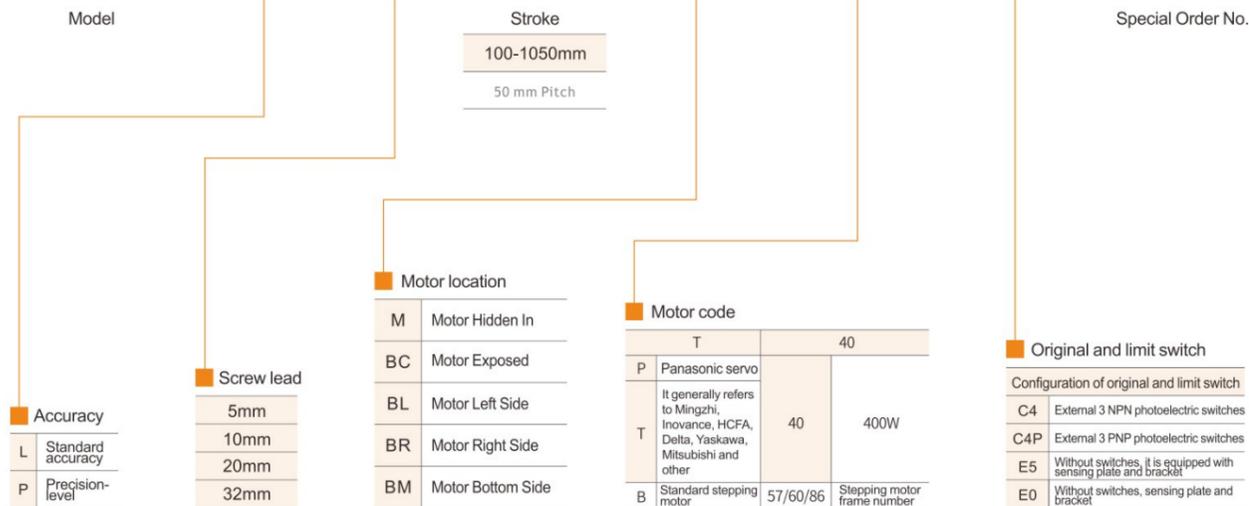
KTH13 1-axis



Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 400W Ball Screw Ø16mm Linear Guide 15x12.5-2

Ordering Method

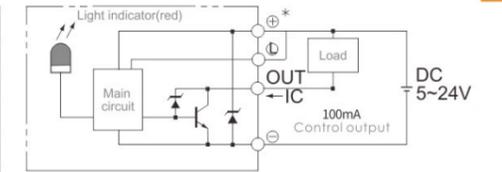
KTH13 - L 10 - 300 - BC - P40 - C4 - D123



Specification

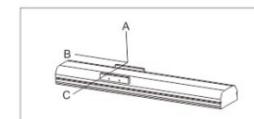
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	70	47	24	13
		Vertical (kg)	17	12	6	-
	Rated Thrust (N)	1388	694	433	347	
	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
Parts	AC Servo Motor Output (w)	400				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



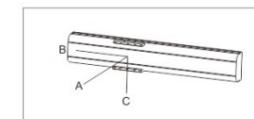
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to slow down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation.

Allowable Moment



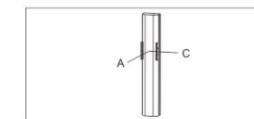
(Unit: mm)

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



(Unit: mm)

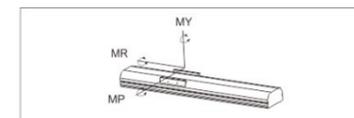
Wall Installation	A	B	C
5 Lead	30kg	310	88
	50kg	172	49
	70kg	115	32
10 Lead	20kg	351	122
	30kg	225	78
	47kg	135	46
20 Lead	5kg	852	428
	12kg	345	173
	24kg	166	81
32 Lead	6kg	350	240
	13kg	155	106
	-	-	-



(Unit: mm)

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

Static Loading Moment



(Unit: mm)

MY	174
MP	175
MR	153

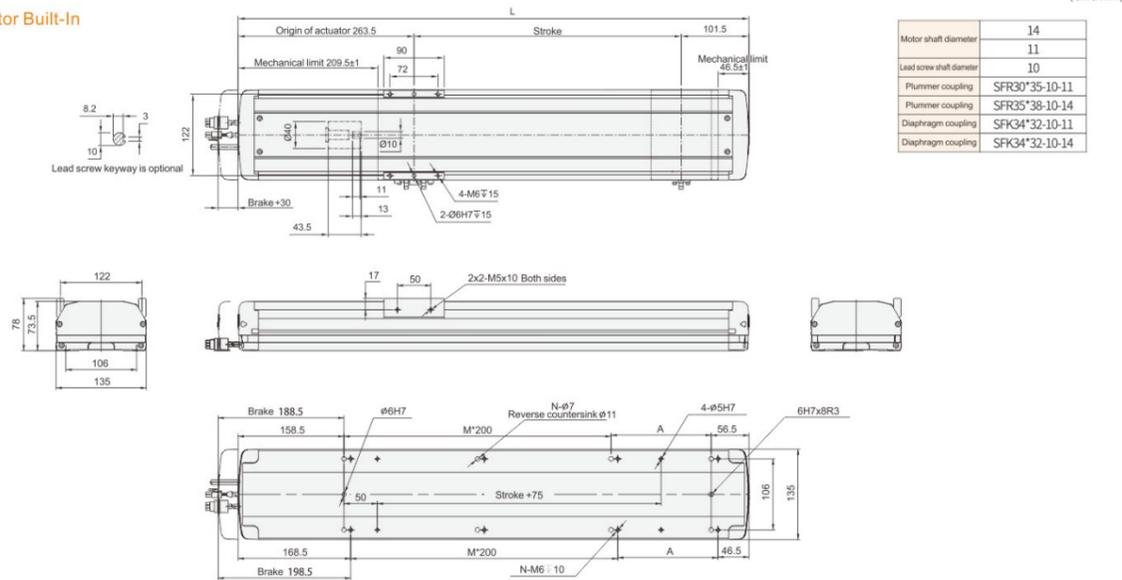
※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 10,000km when the product is using under the specified conditions.
 ※ Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

KTH13 1-axis

Ball Screw Drive

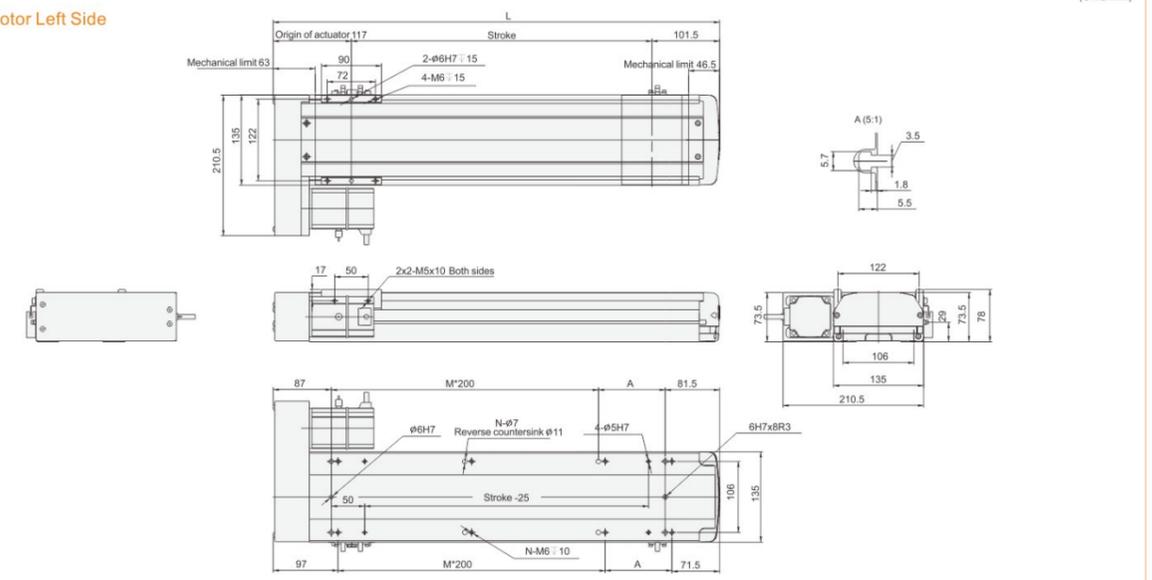
KTH13 1-axis

M Motor Built-In



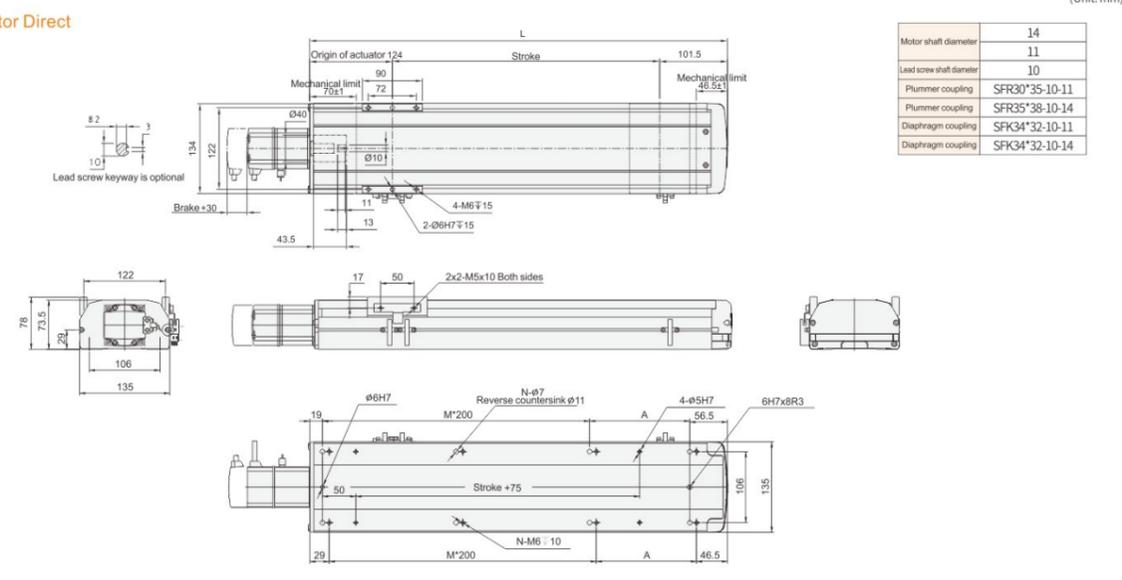
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

BL Motor Left Side



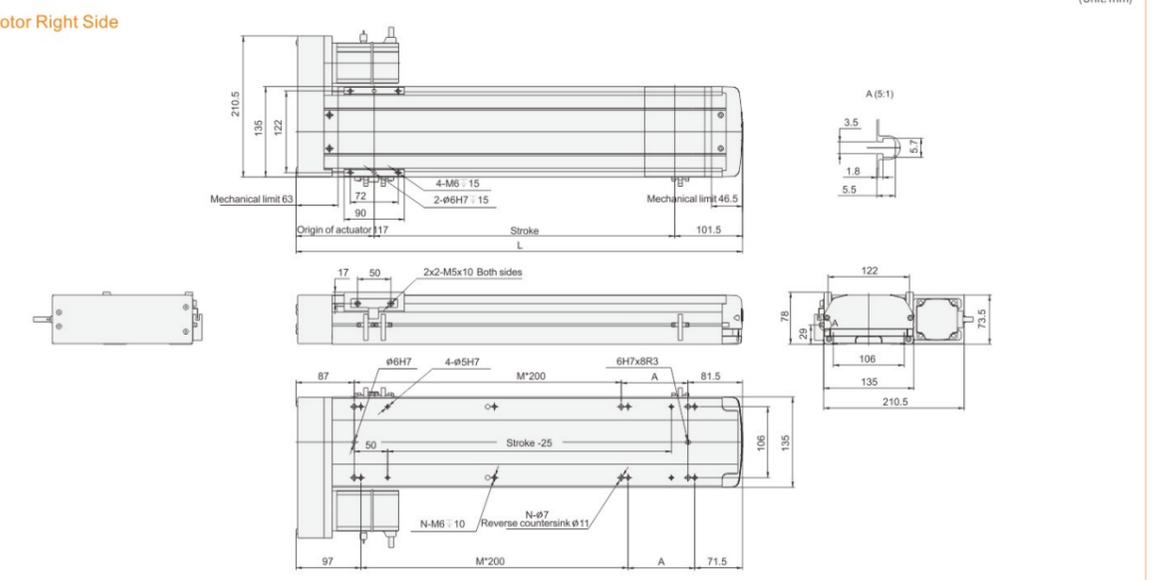
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	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

BC Motor Direct



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

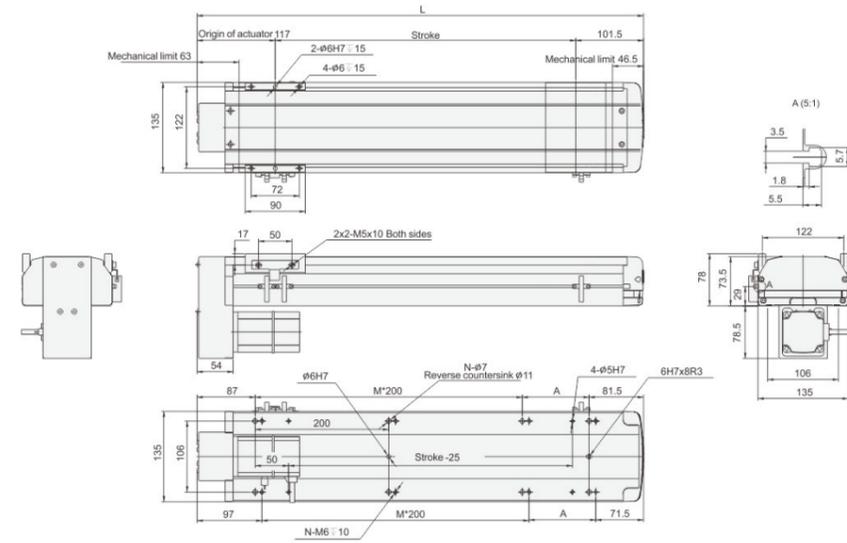
BR Motor Right Side



stroke	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
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	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

BM Motor Bottom Side

(Unit: mm)



stroke	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
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	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

MEMO

KTH14 1-axis

Ball Screw Drive

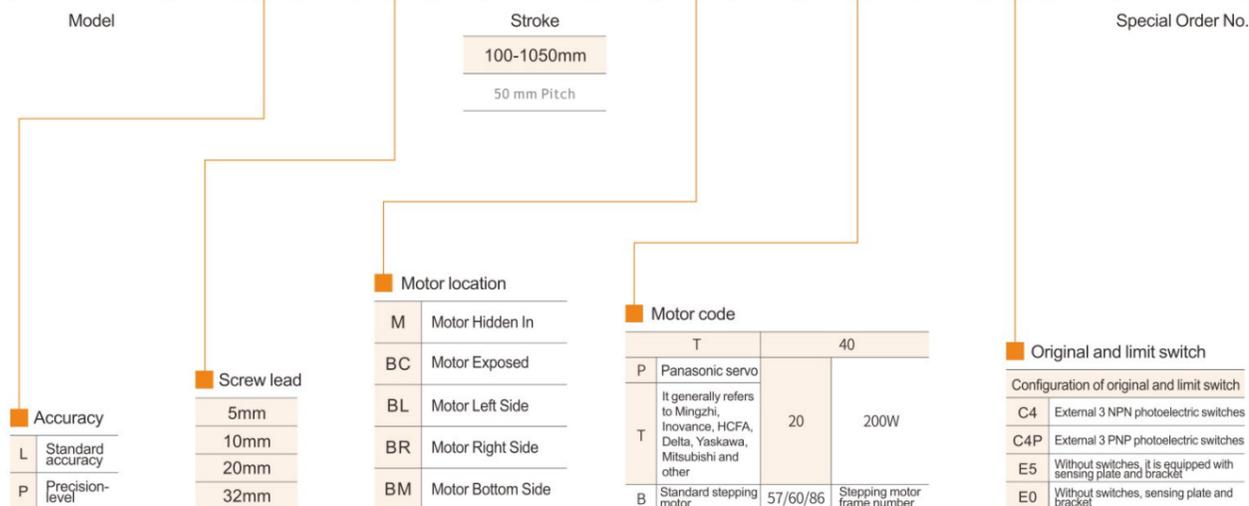
KTH14 1-axis



Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 200W Ball Screw Ø16mm Linear Guide 15x12.5-2

Ordering Method

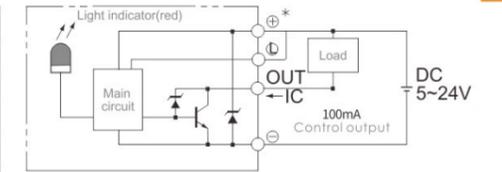
KTH14 - L 10 - 300 - BC - P20 - C4 - D123



Specification

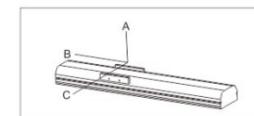
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	95	75	35	15
		Vertical (kg)	27	18	7	-
	Rated Thrust (N)	683	341	174	107	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



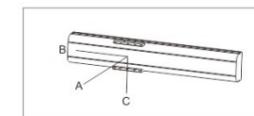
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to slow down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



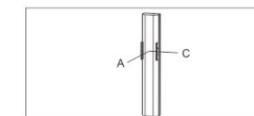
(Unit: mm)

Horizontal Installation	A	B	C
5 Lead	60kg	2512	242
	80kg	1811	172
	95kg	1537	138
10 Lead	30kg	2727	470
	50kg	1577	266
	75kg	1004	164
20 Lead	10kg	2304	1222
	22kg	1443	540
	35kg	1005	324
32 Lead	10kg	1555	840
	15kg	1033	545
	-	-	-



(Unit: mm)

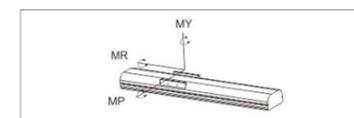
Wall Installation	A	B	C
5 Lead	55kg	257	269
	75kg	178	186
	95kg	133	138
10 Lead	35kg	363	395
	55kg	218	238
	75kg	150	164
20 Lead	12kg	854	1019
	20kg	500	596
	35kg	271	324
32 Lead	8kg	787	1060
	15kg	405	545
	-	-	-



(Unit: mm)

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

Static Loading Moment



(Unit: N.m)

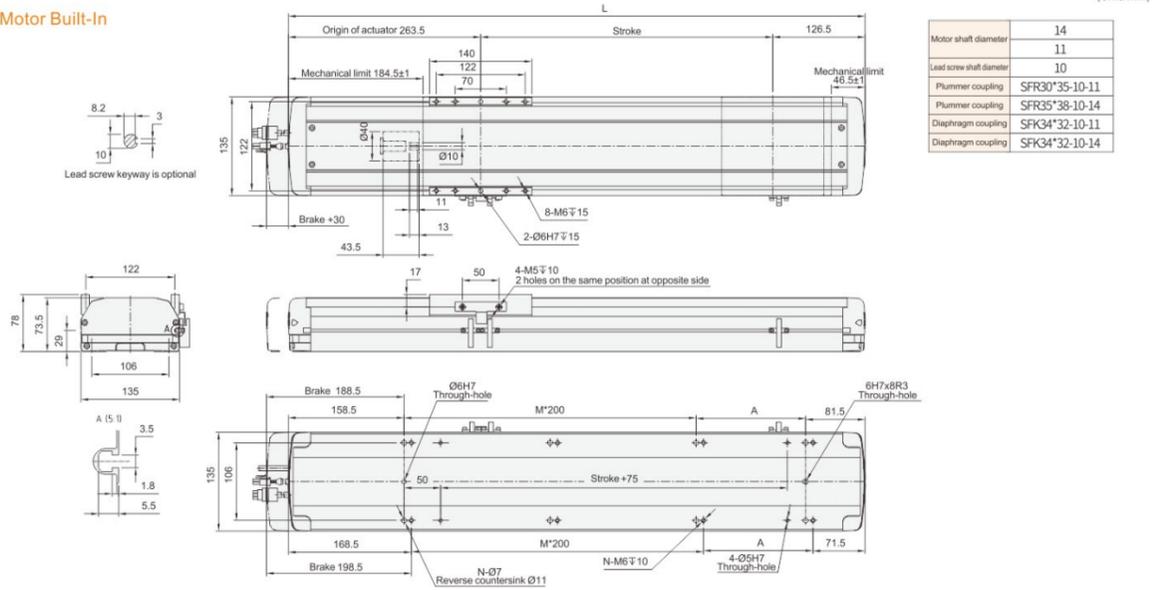
MY	551
MP	552
MR	485

KTH14 1-axis

Ball Screw Drive

KTH14 1-axis

M Motor Built-In

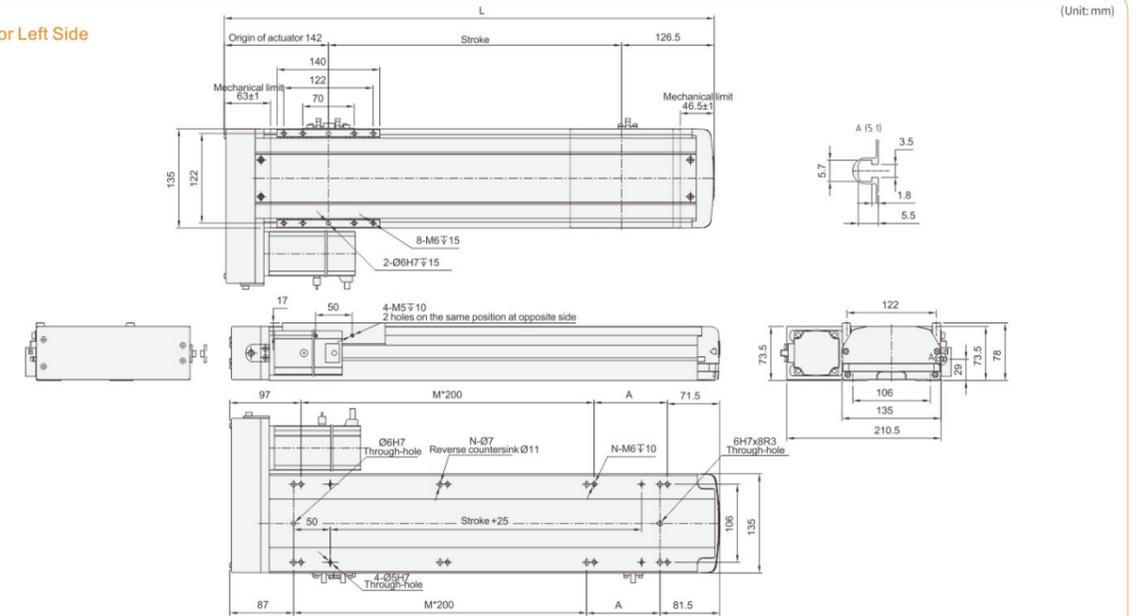


Motor shaft diameter	14
Lead screw shaft diameter	11
Plummer coupling	SFR30*35-10-11
Plummer coupling	SFR35*38-10-14
Diaphragm coupling	SFK34*32-10-11
Diaphragm coupling	SFK34*32-10-14

(Unit: mm)

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

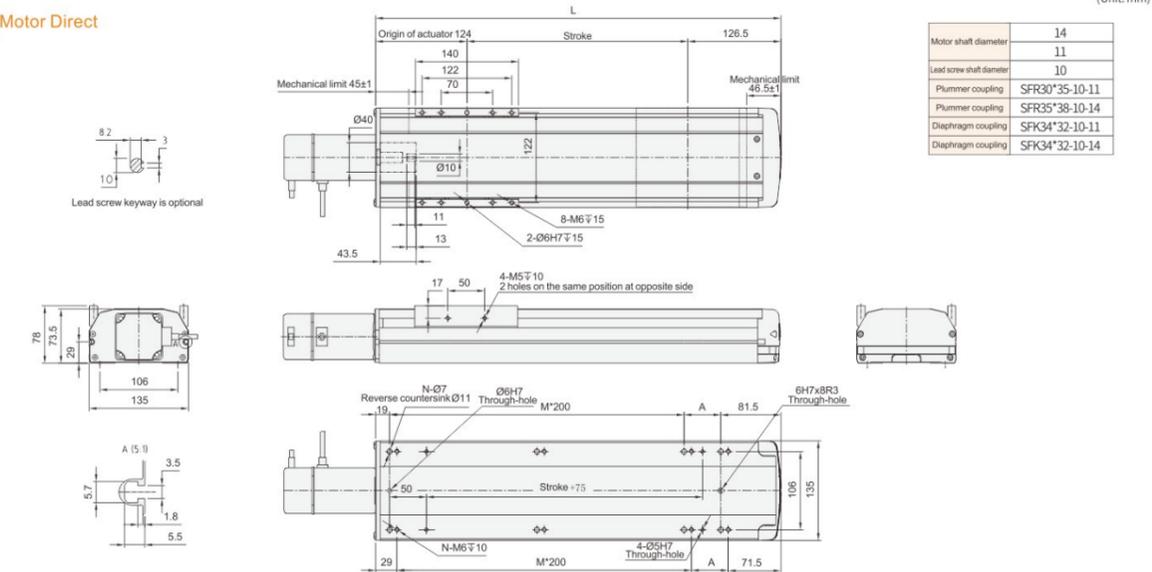
BL Motor Left Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	9.94	10.48	11.02	11.56	12.1	12.64	13.18	13.72	14.26	14.8	15.34	15.88	16.42	16.96	17.5	18.04	18.58	19.12	19.66	20.2

(Unit: mm)

BC Motor Direct

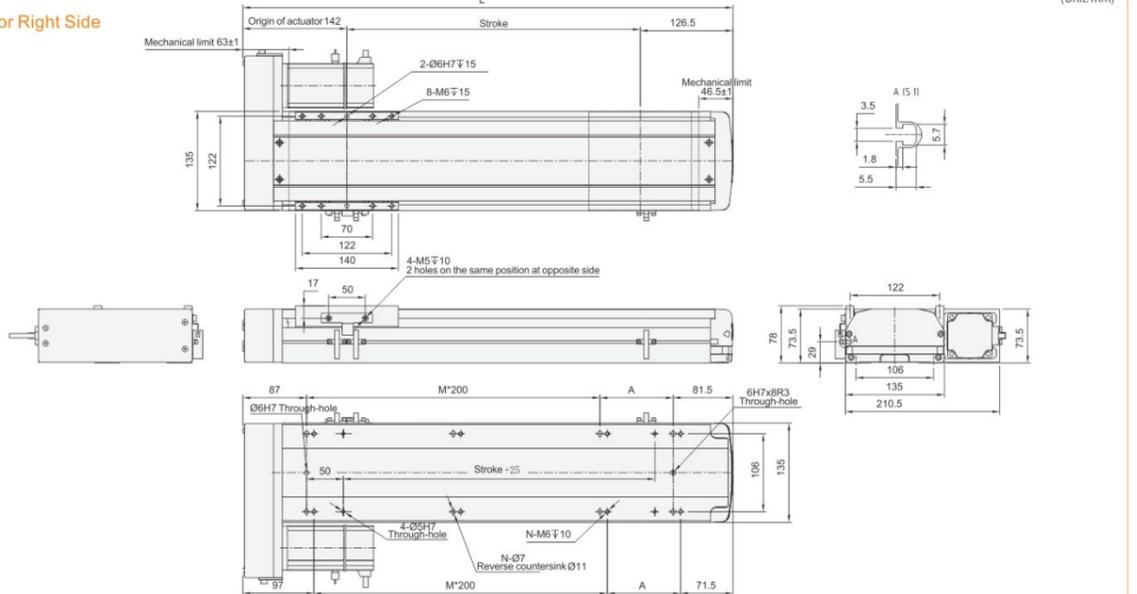


Motor shaft diameter	14
Lead screw shaft diameter	11
Plummer coupling	SFR30*35-10-11
Plummer coupling	SFR35*38-10-14
Diaphragm coupling	SFK34*32-10-11
Diaphragm coupling	SFK34*32-10-14

(Unit: mm)

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

BR Motor Right Side

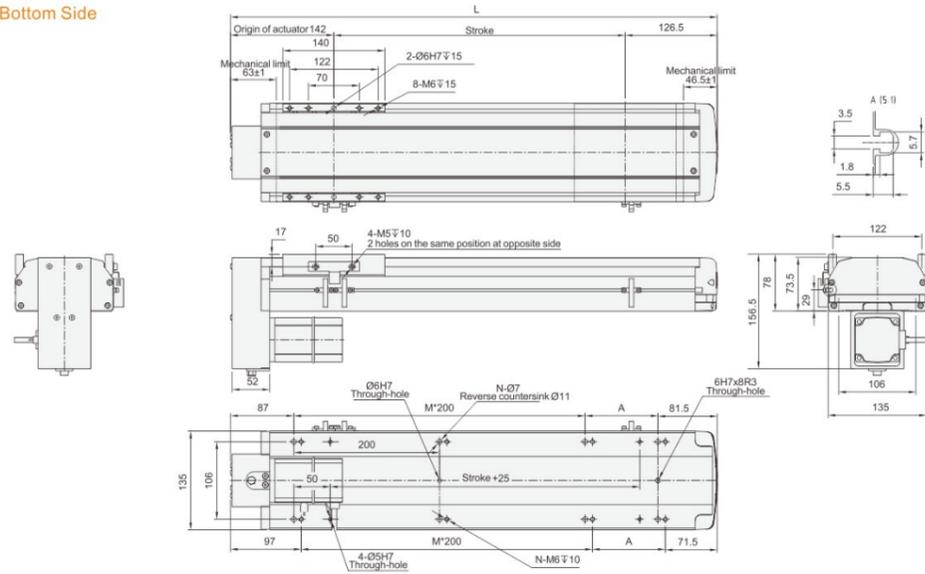


stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1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

(Unit: mm)

BM Motor Bottom Side

(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	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	19.56	20.2

MEMO

KTH14 1-axis

Ball Screw Drive

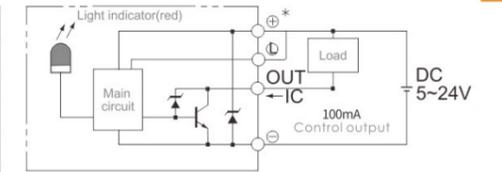
KTH14 1-axis



Specification

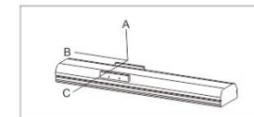
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)	1388	694	347	218	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	400				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



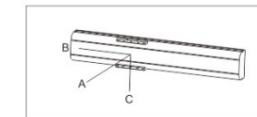
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



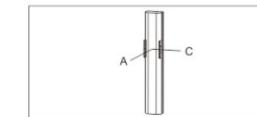
(Unit: mm)

Horizontal Installation	A	B	C
5 Lead	60kg	2512	242
	80kg	1811	172
	110kg	1284	114
10 Lead	30kg	2727	470
	50kg	1577	266
	88kg	854	134
20 Lead	10kg	2304	1222
	22kg	1443	540
	40kg	860	277
32 Lead	15kg	1033	545
	25kg	604	311
	30kg	495	251



(Unit: mm)

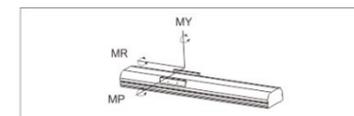
Wall Installation	A	B	C
5 Lead	55kg	257	269
	75kg	178	186
	110kg	108	114
10 Lead	35kg	363	395
	55kg	218	238
	88kg	123	134
20 Lead	12kg	854	1019
	20kg	500	596
	40kg	233	277
32 Lead	15kg	405	545
	30kg	188	251
	-	-	-



(Unit: mm)

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

Static Loading Moment



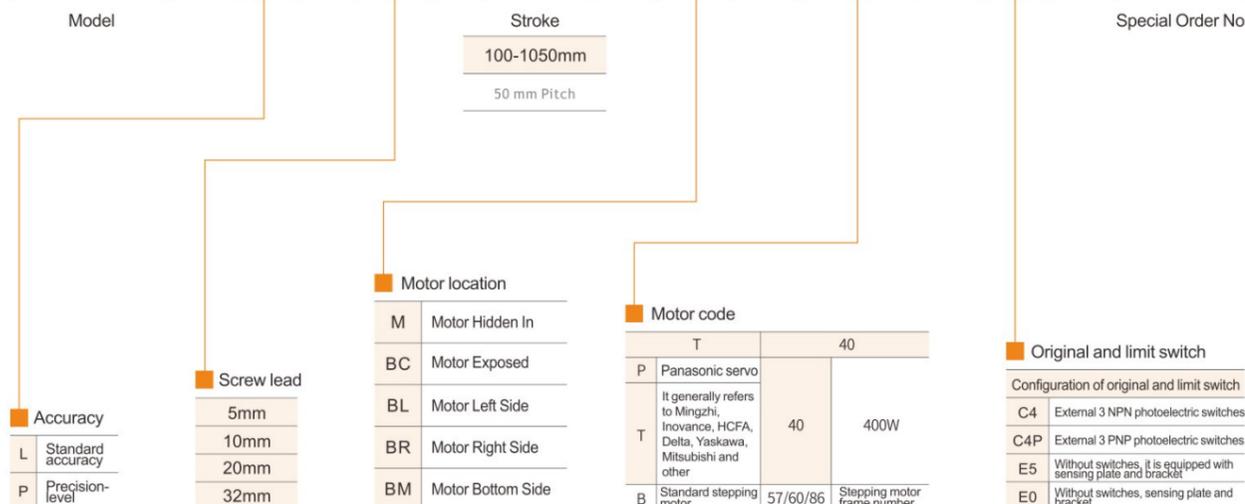
(Unit: mm)

MY	551
MP	552
MR	485

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

Ordering Method

KTH14 - L 10 - 300 - BC - P40 - C4 - D123



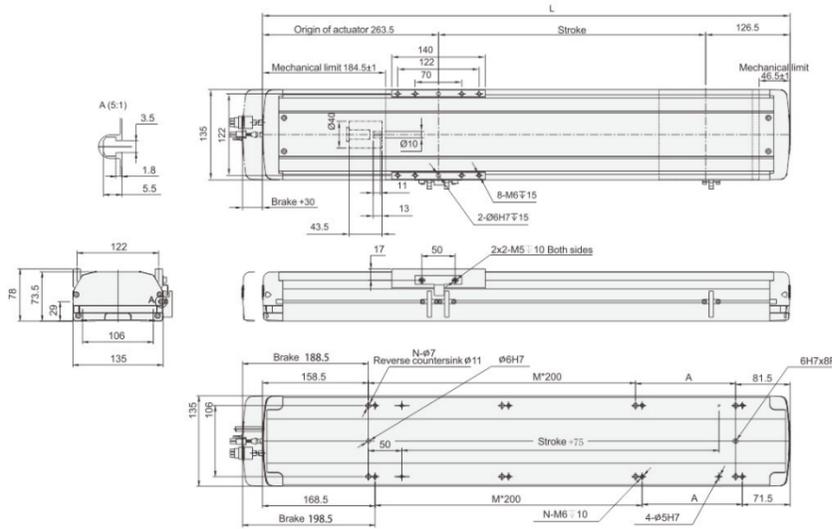
KTH14 1-axis

Ball Screw Drive

KTH14 1-axis

M Motor Built-In

(Unit: mm)

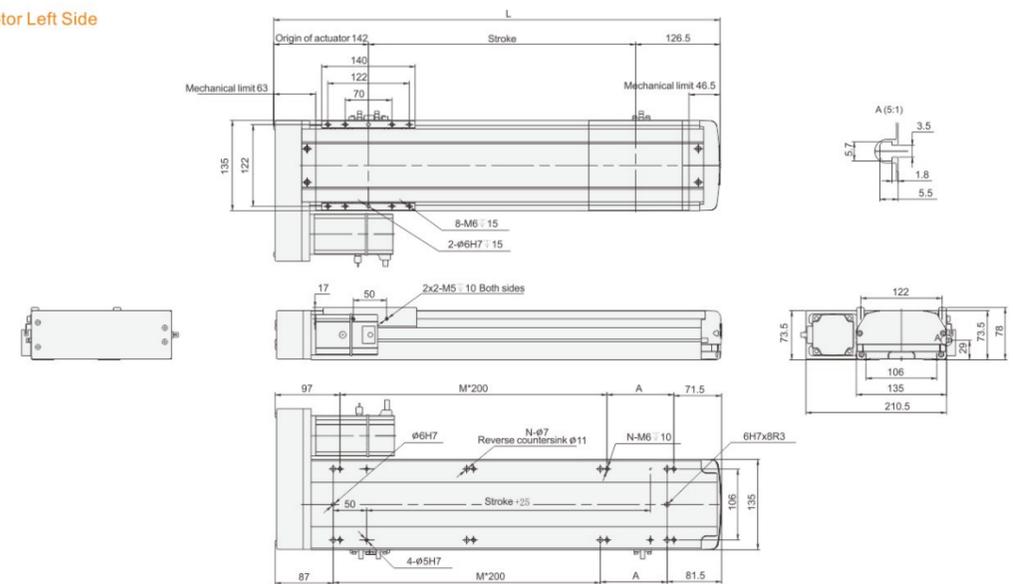


Motor shaft diameter	14
Lead screw shaft diameter	11
Plummer coupling	SFR30*35-10-11
Plummer coupling	SFR35*38-10-14
Diaphragm coupling	SFK34*32-10-11
Diaphragm coupling	SFK34*32-10-14

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

BL Motor Left Side

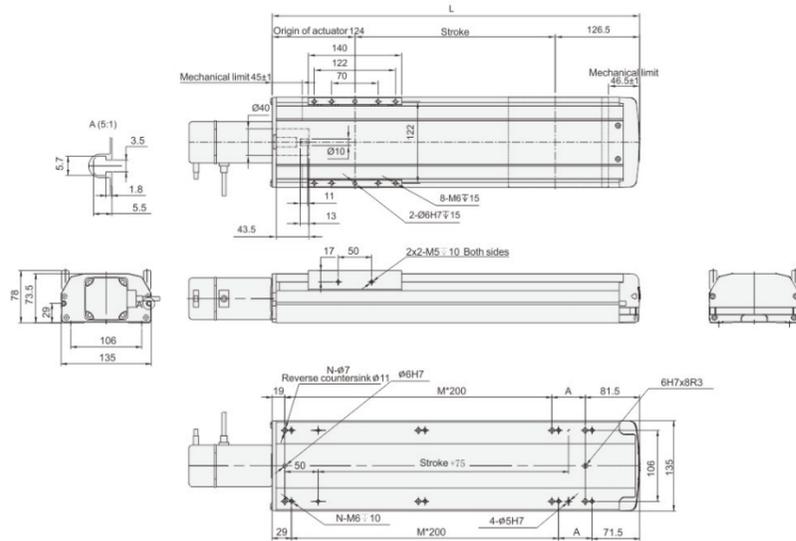
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	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

BC Motor Direct

(Unit: mm)

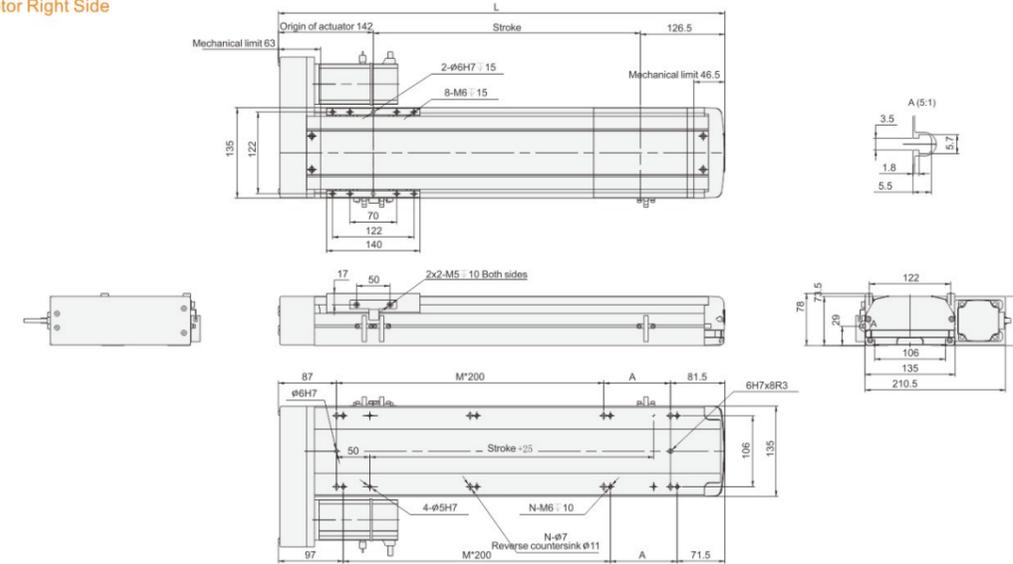


Motor shaft diameter	14
Lead screw shaft diameter	11
Plummer coupling	SFR30*35-10-11
Plummer coupling	SFR35*38-10-14
Diaphragm coupling	SFK34*32-10-11
Diaphragm coupling	SFK34*32-10-14

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	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

BR Motor Right Side

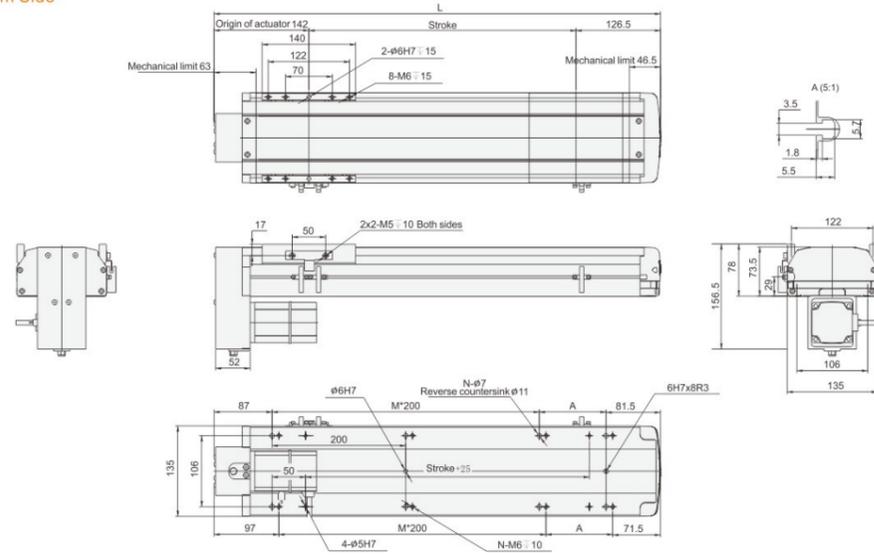
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	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

BM Motor Bottom Side

(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	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	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	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

MEMO

KTH17 1-axis

Ball Screw Drive

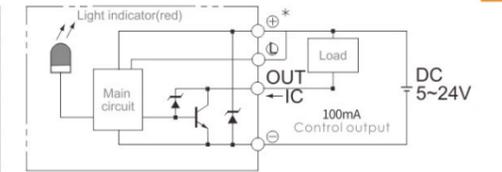
KTH17 1-axis



Specification

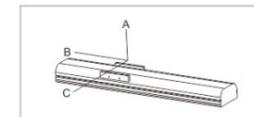
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	40	
	Maximum Speed (mm/s)	250	500	1000	2000	
	Maximum Payload	Horizontal (kg)	120	110	75	22
		Vertical (kg)	40	30	14	7
	Rated Thrust (N)	1388	694	347	174	
Parts	Stroke Pitch (mm)	100-1250mm/50 mm Pitch				
	AC Servo Motor Output (w)	400				
	Ball Screw Ø (mm)	C7 Ø 20				
	High Rigidity Linear Guide (mm)	W20XH15				
	Coupling (mm)	12X14				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



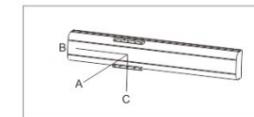
※ When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



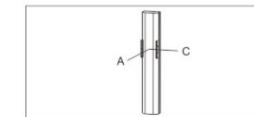
(Unit: mm)

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



(Unit: mm)

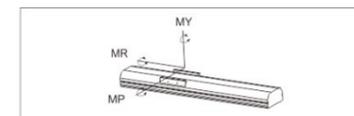
Wall Installation	Weight	A	B	C
		5 Lead	75kg	377
5 Lead	95kg	288	246	2333
	120kg	218	187	1850
	60kg	408	368	2092
10 Lead	80kg	296	266	1554
	110kg	202	182	1102
	30kg	633	644	1961
20 Lead	50kg	365	369	1143
	75kg	230	231	733
	12kg	729	936	1417
40 Lead	22kg	384	491	755
	-	-	-	-
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



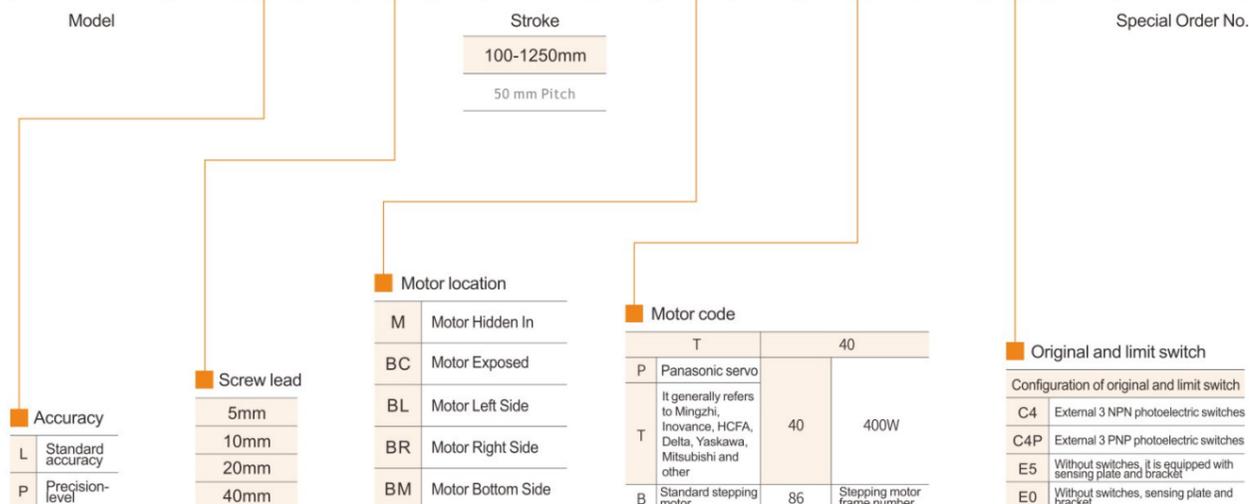
(Unit: mm)

MY	1032
MP	1034
MR	908

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

Ordering Method

KTH17 - L 10 - 300 - BC - P40 - C4 - D123



KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

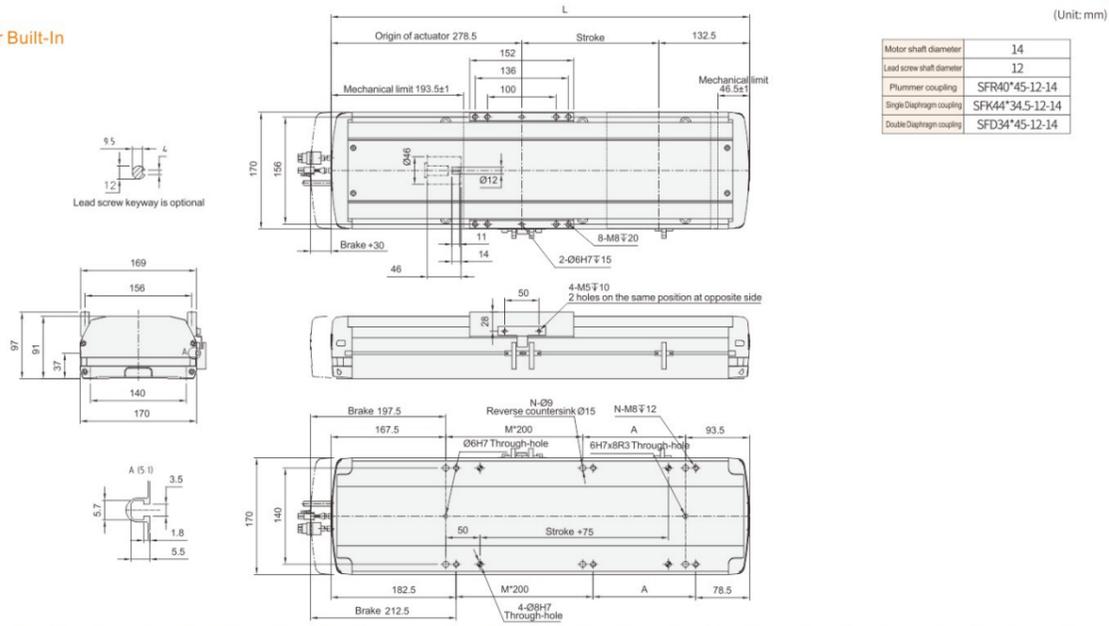
KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

KTH17 1-axis

Ball Screw Drive

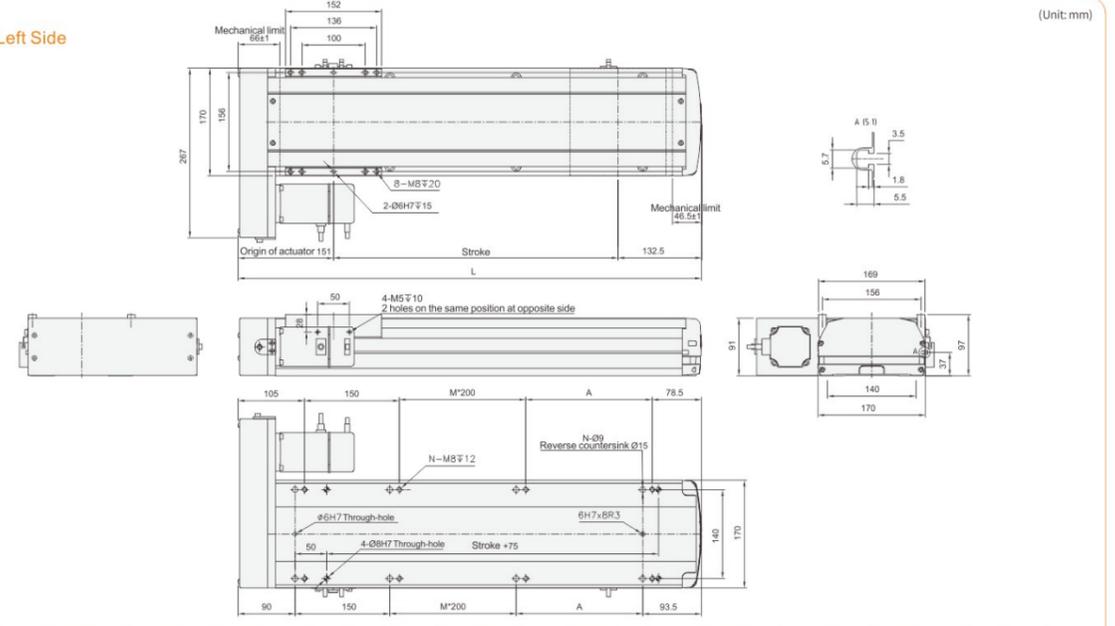
KTH17 1-axis

M Motor Built-In



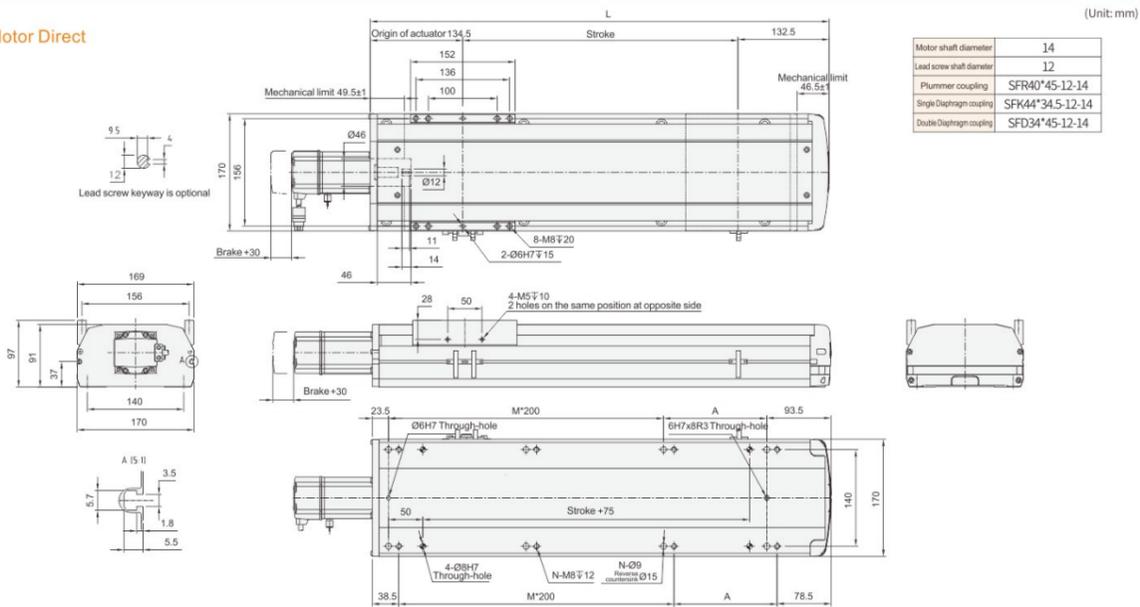
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50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

BL Motor Left Side



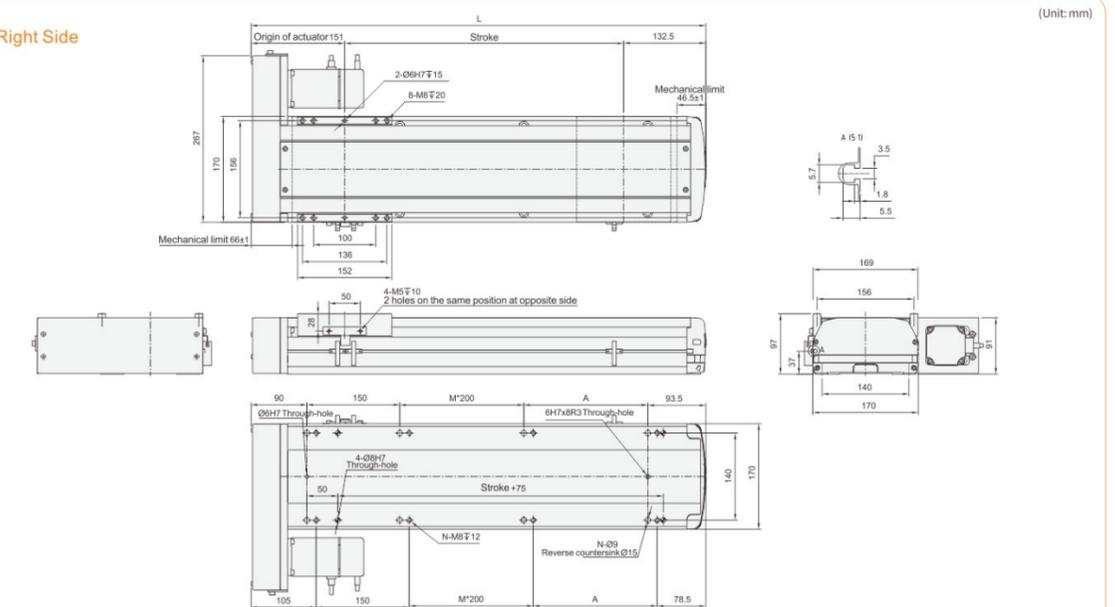
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
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
KG	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

BC Motor Direct



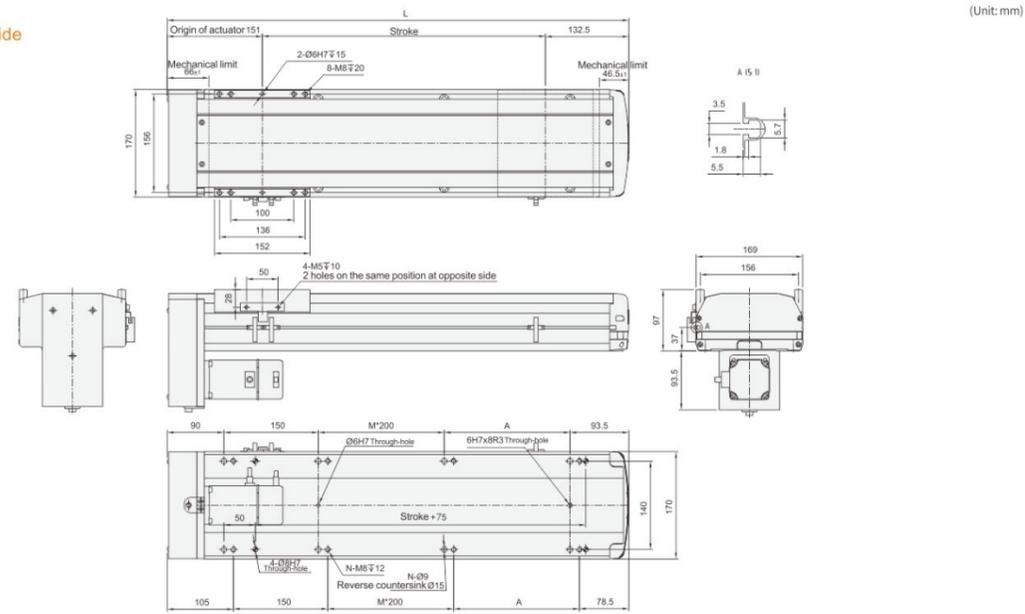
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100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

BR Motor Right Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	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	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	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
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
KG	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

BM Motor Bottom Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	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	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	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5
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
KG	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

MEMO

KTH17 1-axis

Ball Screw Drive

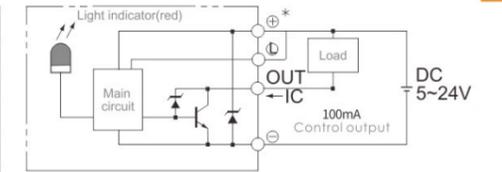
KTH17 1-axis



Specification

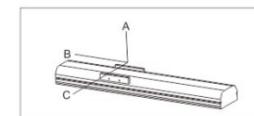
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	40	
	Maximum Speed (mm/s)	250	500	1000	2000	
	Maximum Payload	Horizontal (kg)	120	120	83	43
		Vertical (kg)	50	40	25	12
	Rated Thrust (N)	2563	1281	640	320	
Parts	Stroke Pitch (mm)	100-1250mm/50 mm Pitch				
	AC Servo Motor Output (w)	750				
	Ball Screw Ø (mm)	C7 Ø 20				
	High Rigidity Linear Guide (mm)	W20XH15				
	Coupling (mm)	12X19				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



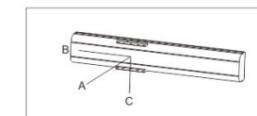
※ When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to slow down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



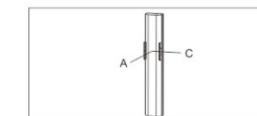
(Unit: mm)

Horizontal Installation	Weight	A	B	C
		5 Lead	70kg	3235
5 Lead	90kg	2482	263	306
	120kg	1861	187	218
	65kg	1911	338	373
10 Lead	85kg	1445	248	276
	120kg	1000	164	182
	35kg	1666	547	538
20 Lead	55kg	1030	331	328
	83kg	654	206	204
	15kg	1126	740	577
40 Lead	22kg	755	491	384
	43kg	366	231	183



(Unit: mm)

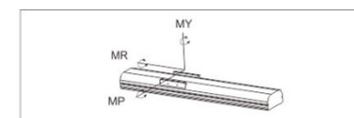
Wall Installation	Weight	A	B	C
		5 Lead	75kg	377
5 Lead	95kg	288	246	2333
	120kg	218	187	1850
	60kg	408	368	2092
10 Lead	80kg	296	266	1554
	120kg	182	164	1002
	30kg	633	644	1002
20 Lead	50kg	365	369	1143
	83kg	204	206	656
	12kg	729	936	1417
40 Lead	22kg	384	491	755
	43kg	183	231	366



(Unit: mm)

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

Static Loading Moment



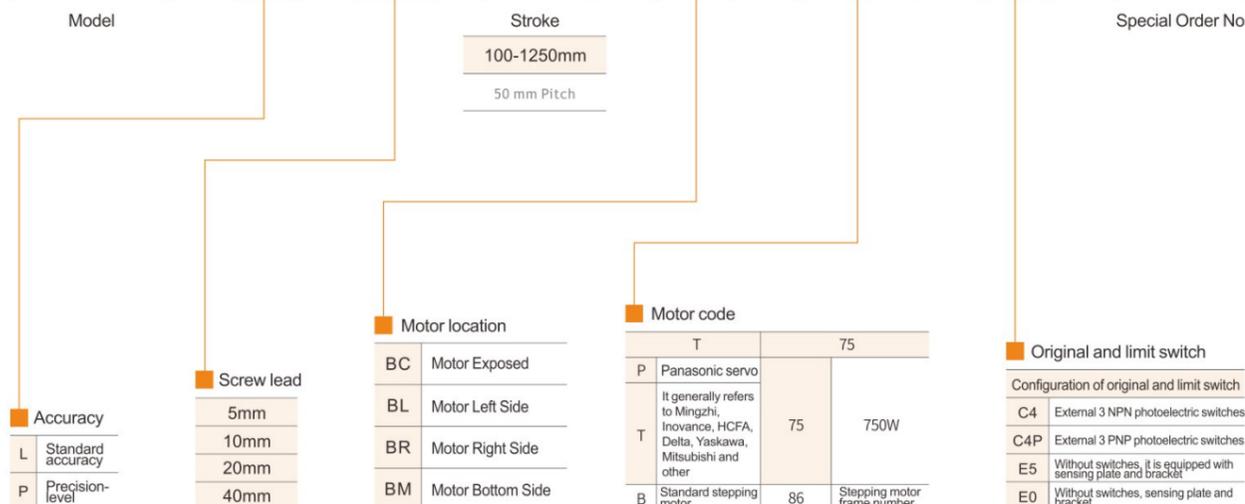
(Unit: mm)

MY	1032
MP	1034
MR	908

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

Ordering Method

KTH17 - L 10 - 300 - BC - P75 - C4 - D123

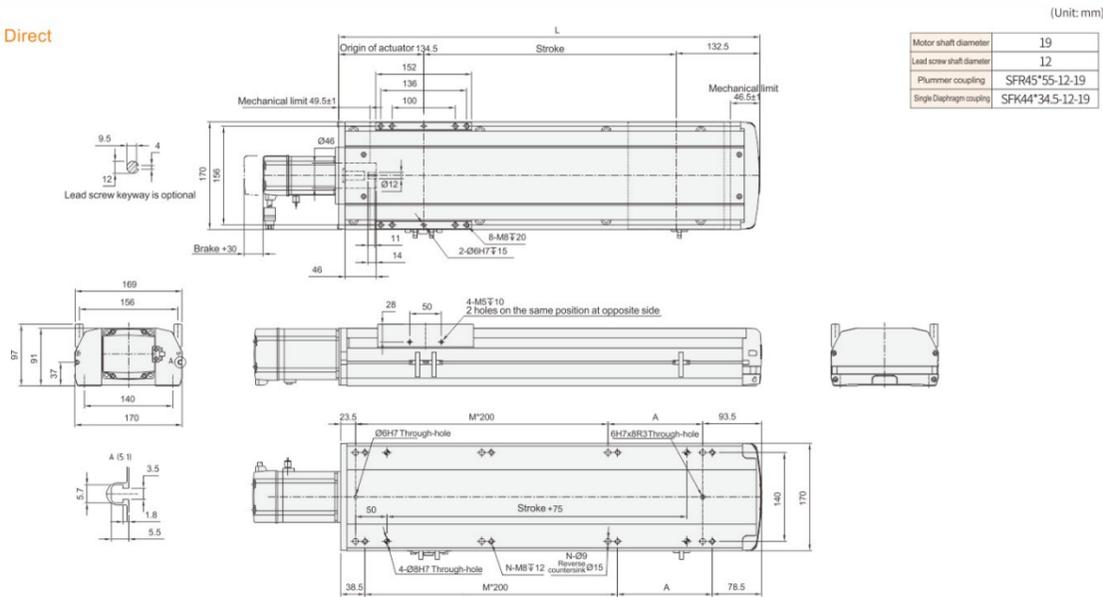


KTH17 1-axis

Ball Screw Drive

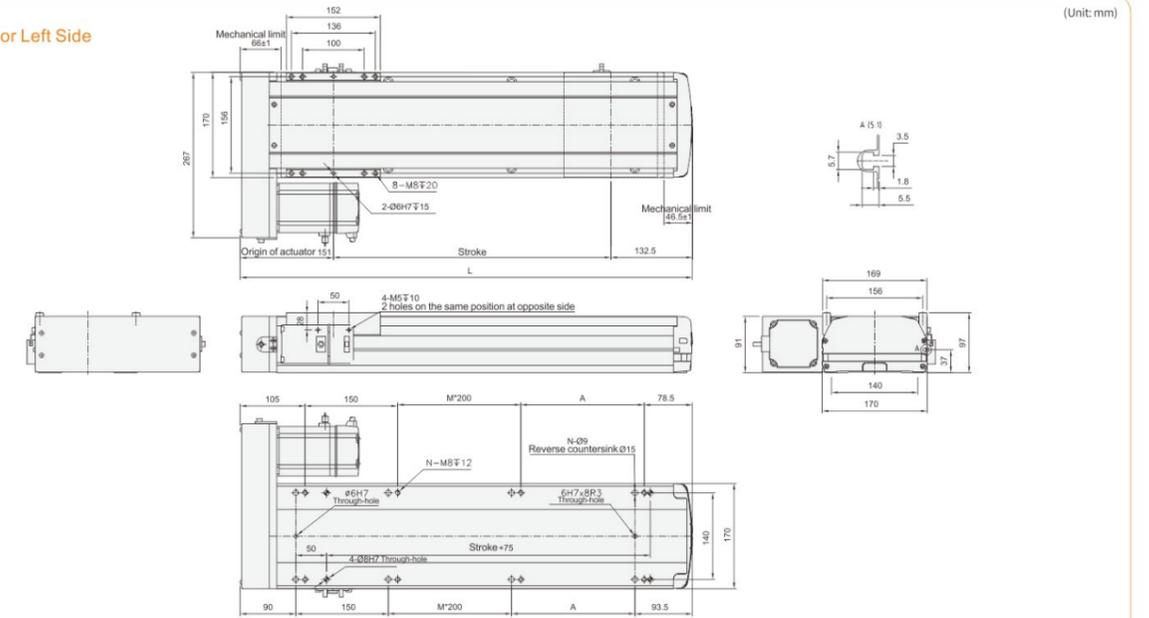
KTH17 1-axis

BC Motor Direct



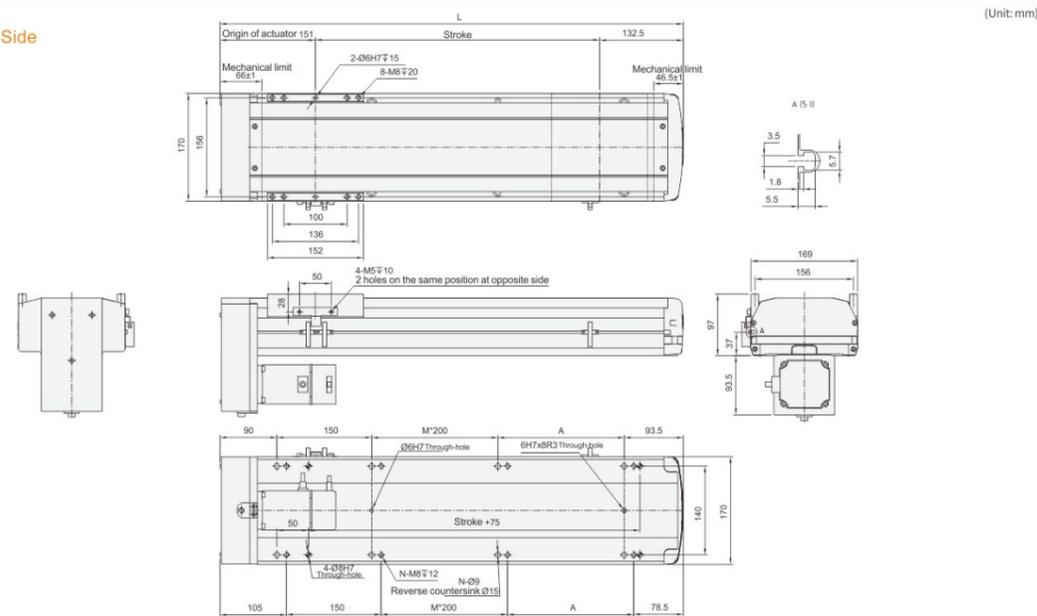
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100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

BL Motor Left Side



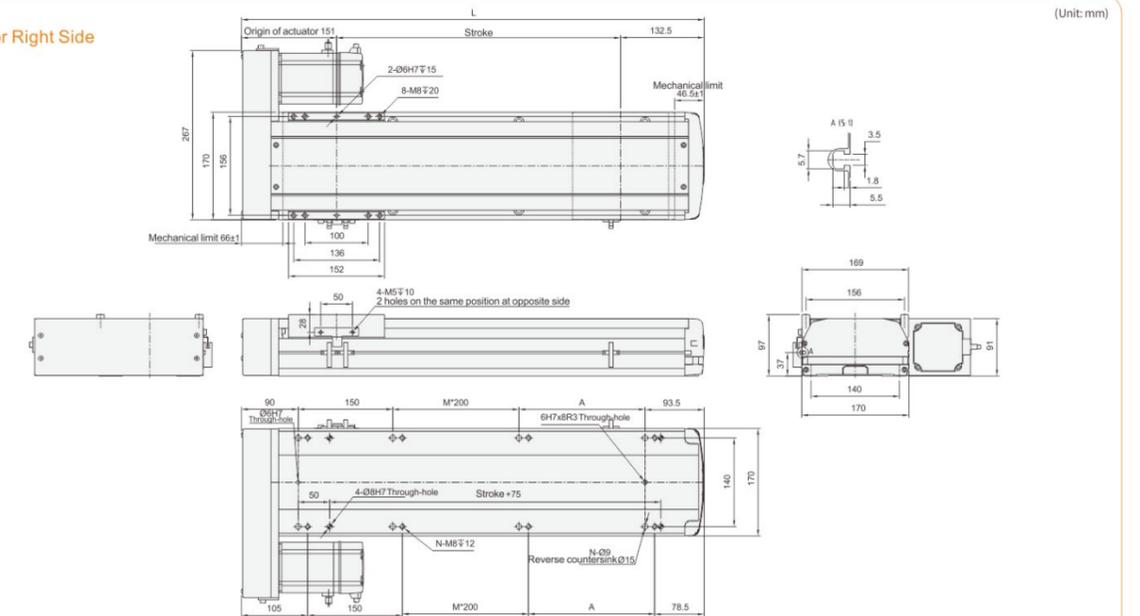
stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
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
KG	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

BM Motor Bottom Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	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	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	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
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
KG	10.3	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.4	24.18	24.95	25.72	26.49	27.26	28.03

BR Motor Right Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	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	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	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
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
KG	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

KTH22 1-axis

Ball Screw Drive

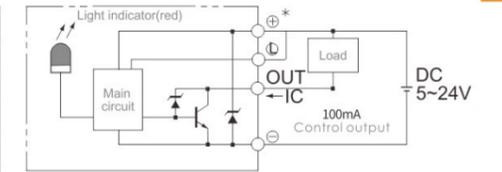
KTH22 1-axis



Specification

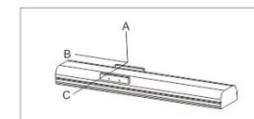
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	25	40	
	Maximum Speed (mm/s)	250	500	1250	2000	
	Maximum Payload	Horizontal (kg)	150	150	105	43
		Vertical (kg)	55	45	20	12
	Rated Thrust (N)	2563	1281	640	320	
Parts	Stroke Pitch (mm)	100-1500mm/50 mm Pitch				
	AC Servo Motor Output (w)	750				
	Ball Screw Ø (mm)	C7 Ø 25		C7 Ø 20		
	High Rigidity Linear Guide (mm)	W23XH18				
	Coupling (mm)	17X19		12X19		
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



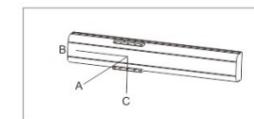
※ When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



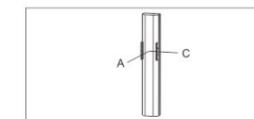
(Unit: mm)

Horizontal Installation	A	B	C
5 Lead	100kg	5000	633
	125kg	3880	491
	150kg	3357	396
10 Lead	100kg	3220	563
	125kg	2554	434
	150kg	2113	349
25 Lead	65kg	1522	614
	85kg	1136	451
	105kg	893	350
40 Lead	18kg	2445	1616
	30kg	1436	938
	43kg	978	630



(Unit: mm)

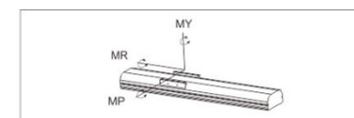
Wall Installation	A	B	C
5 Lead	110kg	500	569
	130kg	412	469
	150kg	347	396
10 Lead	110kg	427	503
	130kg	351	414
	150kg	295	349
25 Lead	70kg	420	564
	90kg	315	420
	105kg	262	350
40 Lead	15kg	1272	1955
	24kg	778	1190
	43kg	412	630



(Unit: mm)

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

Static Loading Moment



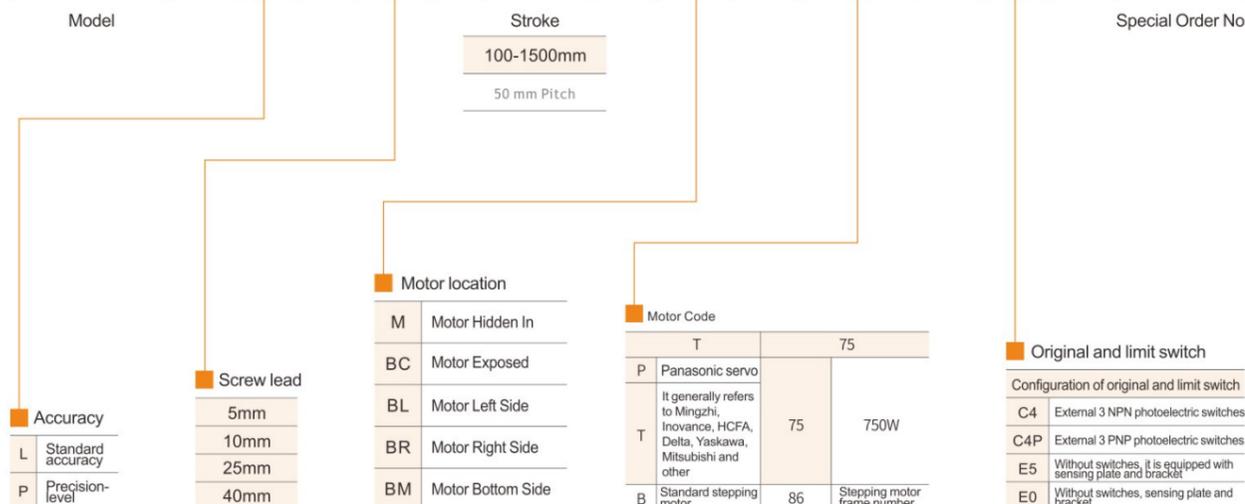
(Unit: mm)

MY	2052
MP	2052
MR	1810

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

Ordering Method

KTH22 - L 10 - 300 - BC - P75 - C4 - D123



KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

KTH10
KTH12
KTH13
KTH14
KTH17
KTH22

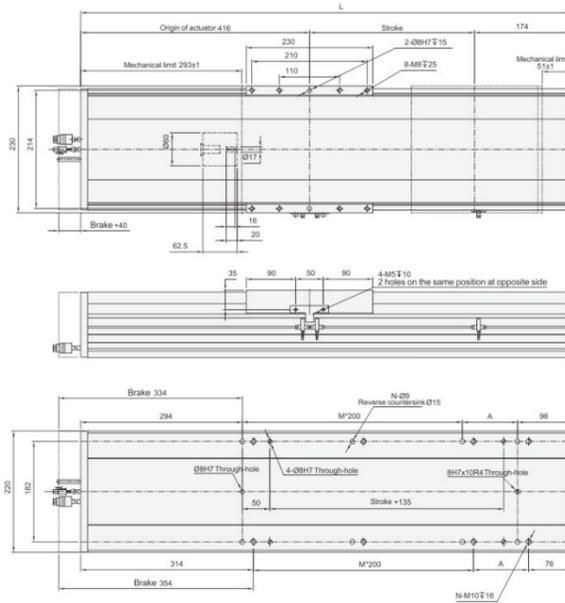
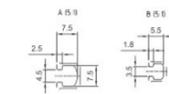
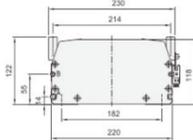
KTH22 1-axis

Ball Screw Drive

KTH22 1-axis

M Motor Built-In

Lead screw keyway is optional

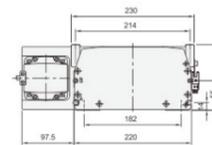
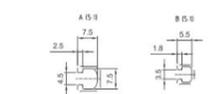
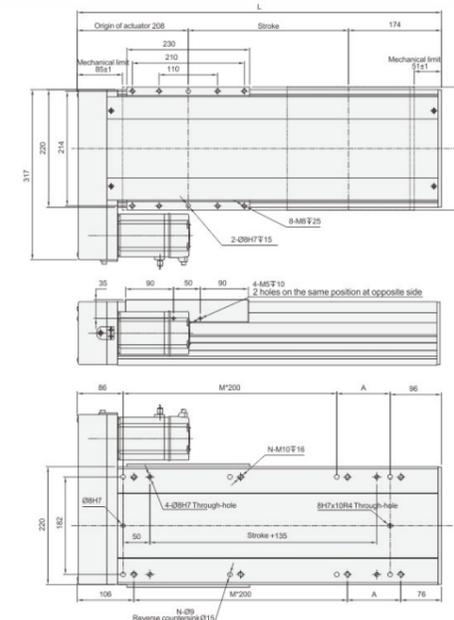


(Unit: mm)

Motor shaft diameter	19
Lead screw shaft diameter	17
Plummer coupling	SFR45°55-17-19
Single Diaphragm coupling	SFD56°57-17-19

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

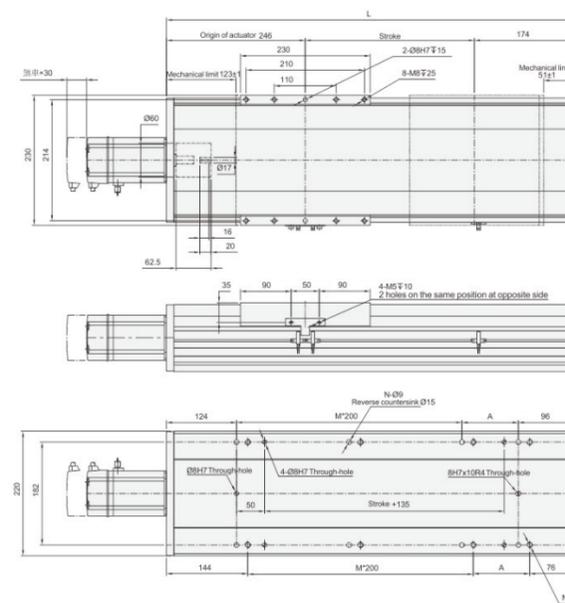
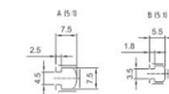
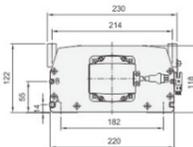
BL Motor Left Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	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	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	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.66	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

BC Motor Direct

丝杆键槽为选配

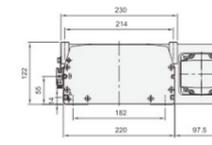
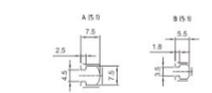
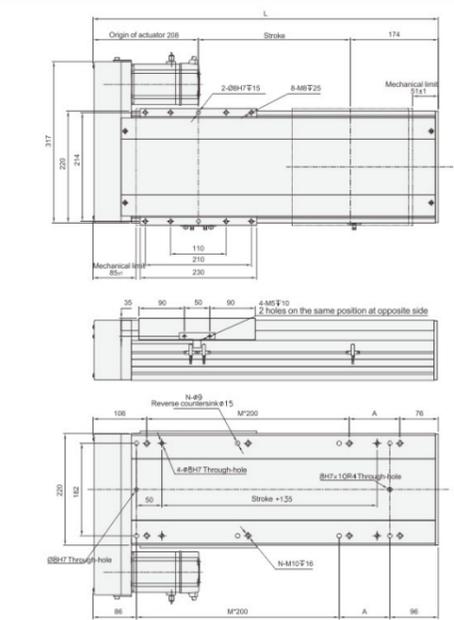


(Unit: mm)

Motor shaft diameter	19
Lead screw shaft diameter	17
Plummer coupling	SFR45°55-17-19
Single Diaphragm coupling	SFD56°57-17-19

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

BR Motor Right Side



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	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	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	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.66	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

