

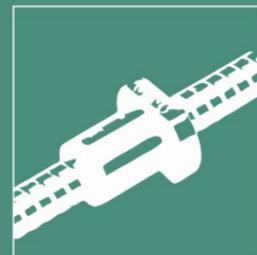
KCH Series

Clean Room/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.

SMALL

KCH5

Low price
Medium load



Width: 51mm
 Max.stroke: 800mm...201
 Max.payload: 10kg

MEDIUM

KCH14

Low price
Medium load



Width: 135mm
 Max.stroke: 1050mm...235
 Max.payload: 110kg

SMALL

KCH6

Low price
Medium load



Width: 65mm
 Max.stroke: 800mm...207
 Max.payload: 30kg

LARGE

KCH17

High load



Width: 170mm
 Max.stroke: 1250mm...247
 Max.payload: 120kg

MEDIUM

KCH10



Width: 102mm
 Max.stroke: 1050mm...215
 Max.payload: 50kg

LARGE

KCH22

High load



Width: 220mm
 Max.stroke: 1500mm...257
 Max.payload: 150kg

MEDIUM

KCH12



Width: 102mm
 Max.stroke: 1050mm...225
 Max.payload: 50kg

Spec Inde

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		Stroke	Speed																												
												50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950		1000	1050	1100	1150	1200	1250	1300	1350	1400
Clean Room	Ball screw	KCH5	42M (Stepping Motor)	51	±0.01	12	2	10	7	16																					201									
							5	10	3	41																														
							10	5	1.5	83																														
							20	3	1.5	166																														
		KCH5	100W	51	±0.01	12	2	10	7	100																90	80	70	60											
							5	10	3	250																225	200	175	150											
							10	5	1.5	500																450	400	350	300											
							20	3	1.5	1000																900	500	700	600											
		KCH6	57M (Stepping Motor)	65	±0.01	12	2	30	15	16																					207									
							5	30	10	41																														
							10	15	5	83																														
							20	10	2	166																														
		KCH6	100W	65	±0.01	12	2	30	15	100																90	80	70	60											
							5	30	10	250																225	200	175	150											
							10	15	5	500																450	400	350	300											
							20	10	2	1000																900	800	700	600											
		KCH10	100W	102	±0.01	16	5	50	12	250																225	200	175	150	125	100									
							10	30	8	500																450	400	350	300	250	200									
							20	18	3	1000																900	800	700	600	500	400									
							32	5	-	1600																1440	1280	1120	960	800	640									
KCH10	200W	102	0±.01	16	5	50	12	250																225	200	175	150	125	100											
					10	30	8	500																450	400	350	300	250	200											
					20	18	3	1000																900	800	700	600	500	400											
					32	5	-	1600																1440	1280	1120	960	800	640											
KCH12	100W	102	0±.01	16	5	50	12	250																225	200	175	150	125	100											
					10	30	8	500																450	400	350	300	250	200											
					20	18	3	1000																900	800	700	600	500	400											
					32	5	-	1600																1440	1280	1120	960	800	640											
KCH12	200W	102	0±.01	16	5	50	12	250																225	200	175	150	125	100											
					10	30	8	500																450	400	350	300	250	200											
					20	18	3	1000																900	800	700	600	500	400											
					32	5	-	1600																1440	1280	1120	960	800	640											
KCH14	200W	135	±0.01	16	5	95	27	250																225	200	175	150	125	100											
					10	75	18	500																450	400	350	300	250	200											
					20	35	7	1000																900	800	700	600	500	400											
					32	15	-	1600																1440	1280	1120	960	800	640											
KCH14	400W	135	±0.01	16	5	110	33	250																225	200	175	150	125	100											
					10	88	22	500																450	400	350	300	250	200											
					20	40	10	1000																900	800	700	600	500	400											
					32	30	8	1600																1440	1280	1120	960	800	640											
KCH17	400W	170	±0.01	20	5	120	40	250																250						225	200	175	150							
					10	110	30	500																500						450	400	350	300							
					20	75	14	1000																1000						900	800	700	600							
					40	22	7	2000																2000						1800	1600	1400	1200							
KCH17	750W	170	±0.01	20	5	120	50	250																250						225	200	175	150							
					10	120	40	500																500						450	400	350	300							
					20	83	25	1000																1000						900	800	700	600							
					40	43	12	2000																2000						1800	1600	1400	1200							
KCH22	750W	220	±0.01	25	5	150	55	250																250						225	200	175	150	125	100					
					10	150	45	500																500						450	400	350	300	250	200					
					25	105	20	1250																1250						1125	1000	875	750	625	500					
					20	40	43	12	2000																2000						1800	1600	1400	1200	1000	800	600			

*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 stork's maximum safe speed. If over this speed, it may casue serious vibration.

KCH5 1-axis Clean Room Ball Screw Drive

KCH5 1-axis



Ordering Method

KCH5 - L 10 - 300 - BC - P10 - C4 - D123

Model Stroke Special Order No.

Stroke: 50-800mm (50 mm Pitch)

Accuracy

L	Standard accuracy	2mm
		5mm
		10mm
P	Precision-level	20mm

Screw lead

	2mm
	5mm
	10mm
	20mm

Motor location

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

Motor code

T	10	100W
P	Panasonic servo	
T	It generally refers to Mingzhi, Inovance, HCFA, Delta, Yaskawa, Mitsubishi and other	
B	Standard stepping motor	42/57/60 Stepping motor frame number

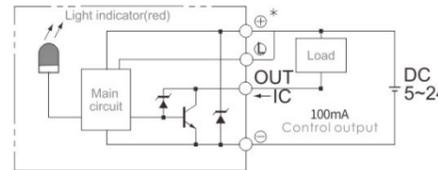
Original and limit switch

C4	External 3 NPN photoelectric switches
C4P	External 3 PNP photoelectric switches
E5	Without switches, it is equipped with sensing plate and bracket
E0	Without switches, sensing plate and bracket

When choosing the stroke 50, there are following limits:
 1. The origin and limit switches need to be placed on different sides.
 2. The sensing plates shall be mounted at both sides of actuator base.

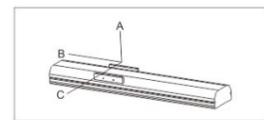
Specification **Sensor Layout**

Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	2	5	10	20	
	Maximum Speed (mm/s)	100	250	500	1000	
	Maximum Payload	Horizontal (kg)	10	10	5	3
		Vertical (kg)	7	3	1.5	1.5
Rated Thrust (N)	854	341	170	85		
Stroke Pitch (mm)	50-800mm/50 mm Pitch					
Parts	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7Ø12				
	High Rigidity Linear Guide (mm)	Embedded				
	Coupling (mm)	8X8				
Home Sensor	Outside	EE-SX672(NPN)				



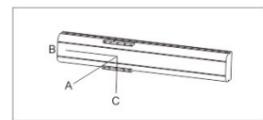
※ When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



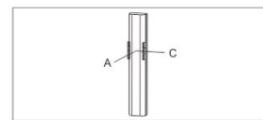
(Unit: mm)

Horizontal Installation	A	B	C
2 Lead	5kg	750	32
	10kg	350	13
5 Lead	5kg	280	24
	10kg	120	10
10 Lead	3kg	245	40
	5kg	140	22
20 Lead	2kg	153	50
	3kg	99	32



(Unit: mm)

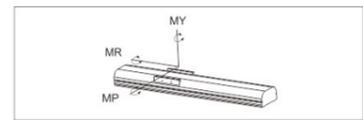
Wall Installation	A	B	C
2 Lead	5kg	71	30
	10kg	30	12
5 Lead	5kg	51	30
	10kg	20	15
10 Lead	3kg	74	37
	5kg	40	20
20 Lead	2kg	75	48
	3kg	48	30



(Unit: mm)

Vertical Installation	A	C
2 Lead	3kg	59
	7kg	25
5 Lead	1kg	140
	3kg	47
10 Lead	1kg	125
	1.5kg	83
20 Lead	1kg	100
	1.5kg	66

Static Loading Moment



(Unit: mm)

MY	16
MP	20
MR	19

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 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.

KCH5 1-axis Clean Room Ball Screw Drive

BC Motor Exposed (Standard motor) (Unit: mm)

Motor Model	Motor code	S	D	F	d	h	B	B1	B2
Delta 50W	M05	M4	46	30	16	51	47.5	25	
Delta 100W	M10	M4	46	30	16	51	47.5	25	
Panasonic 50W	P05	M3	45	30	16	51	47.5	25	
Panasonic 100W	P10	M3	45	30	16	51	47.5	25	
42 Standard sleeping motor	42	φ3.5	31	22	2	60	47.5	25	
57 Standard sleeping motor	57	M4	47.14	39.1	3	57	57	28.5	
60 Standard sleeping motor	60	M5	50	36	3	60	60	30	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
kg	1.18	1.31	1.45	1.58	1.72	1.85	1.99	2.12	2.56	2.39	2.53	2.66	2.80	2.93	3.07	3.20

BC Motor Exposed (Enlarged motor) (Unit: mm)

Motor Model	Motor code	S
Delta 200W	M20	M5
Delta 400W	M40	M5
Panasonic 200W	P20	M4
Panasonic 400W	P40	M4

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
kg	1.18	1.31	1.45	1.58	1.72	1.85	1.99	2.12	2.56	2.39	2.53	2.66	2.80	2.93	3.07	3.20

KCH5 1-axis

BL Motor Left Side (Unit: mm)

Motor Model	Motor code	S	D	d	F
Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Panasonic 50W	P05	M3	45	8	
Panasonic 100W	P10	M3	45	8	
42 Standard sleeping motor	42	φ3.5	31	5	31

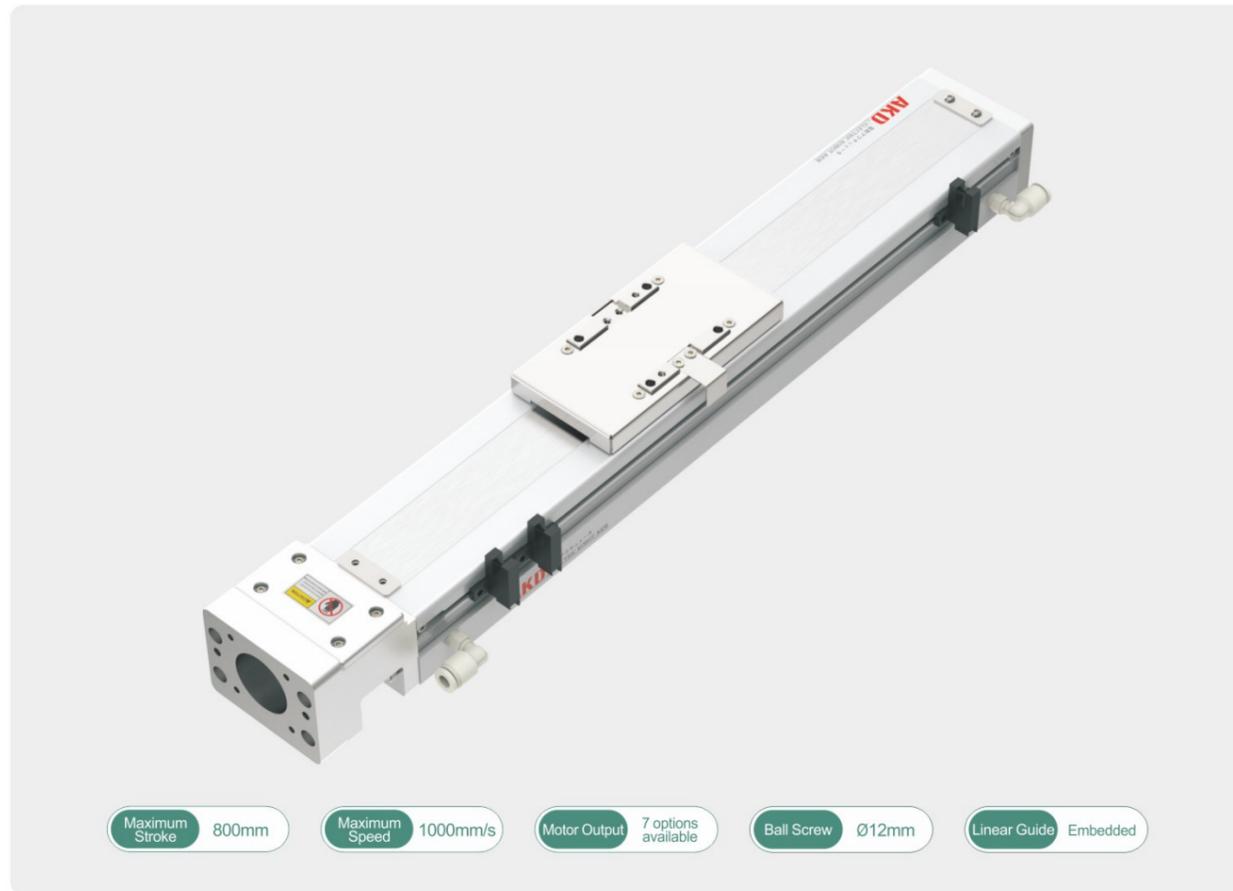
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	204	254	304	354	404	454	504	554	604	654	704	754	804	854	904	954
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
kg	1.3	1.43	1.56	1.7	1.83	1.97	2.1	2.24	2.37	2.5	2.64	2.78	2.91	3.05	3.18	3.32

BR Motor Right Side (Unit: mm)

Motor Model	Motor code	S	D	d	F
Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Panasonic 50W	P05	M3	45	8	
Panasonic 100W	P10	M3	45	8	
42 Standard sleeping motor	42	φ3.5	31	5	31

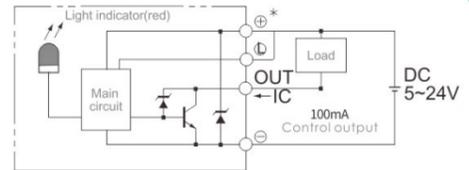
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	204	254	304	354	404	454	504	554	604	654	704	754	804	854	904	954
A	60	30	40	50	60	30	40	50	60	30	40	50	60	30	40	50
M	2	4	5	6	7	9	10	11	12	14	15	16	17	19	20	21
N	3	5	6	7	8	10	11	12	13	15	16	17	18	20	21	22
kg	1.3	1.43	1.56	1.7	1.83	1.97	2.1	2.24	2.37	2.5	2.64	2.78	2.91	3.05	3.18	3.32

KCH6 1-axis Clean Room Ball Screw Drive **KCH6** 1-axis



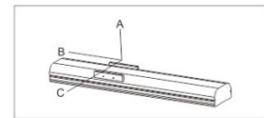
Specification **Sensor Layout**

Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	2	5	10	20	
	Maximum Speed (mm/s)	100	250	500	1000	
	Maximum Payload	Horizontal (kg)	30	30	15	10
		Vertical (kg)	15	10	5	2
	Rated Thrust (N)	1225	490	245	85	
Parts	Stroke Pitch (mm)	50-800mm/50 mm Pitch				
	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7Ø12				
	High Rigidity Linear Guide (mm)	Embedded				
	Coupling (mm)	8X8				
Home Sensor	Outside	EE-SX672(NPN)				



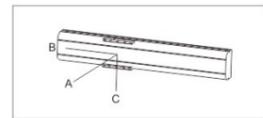
※ When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to slow down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation.

Allowable Moment



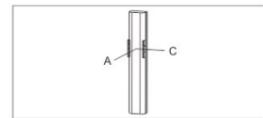
(Unit: mm)

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



(Unit: mm)

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

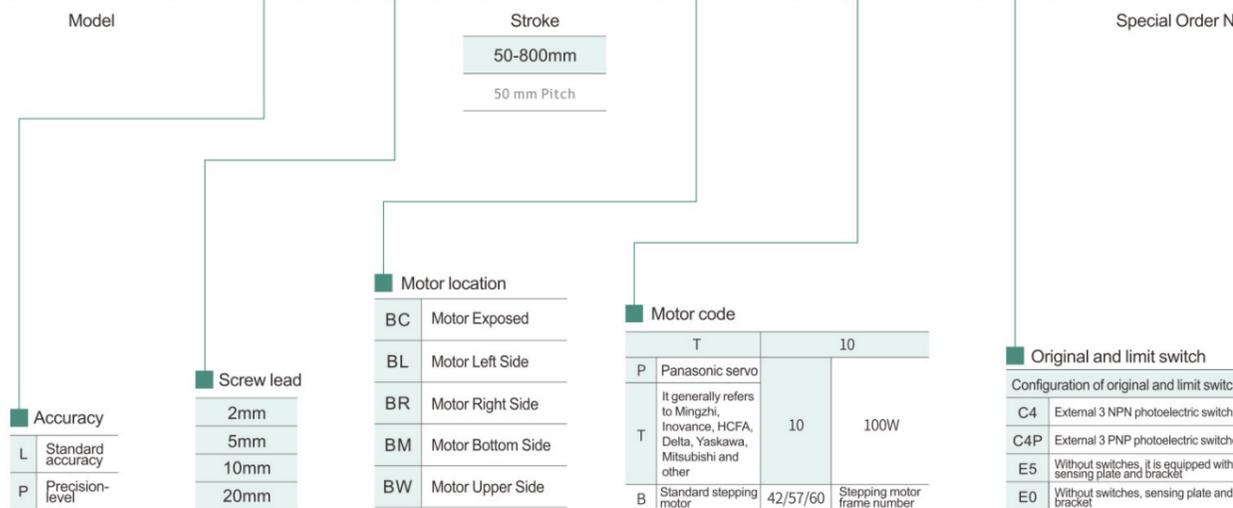


(Unit: mm)

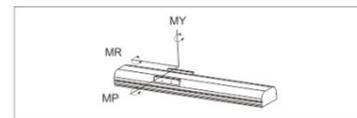
Vertical Installation		A	C
2 Lead	5kg	125	125
	15kg	42	42
5 Lead	2kg	250	250
	4kg	125	125
10 Lead	1kg	446	446
	2kg	223	223
20 Lead	1kg	353	353
	2kg	177	177
	-	-	-

Ordering Method

KCH6 - L 10 - 300 - BC - P10 - C4 - D123



Static Loading Moment



(Unit: mm)

MY	70
MP	80
MR	75

※ The torque value in the chart indicate the center of gravity.
 ※ Operation life is 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.

KCH6 1-axis Clean Room Ball Screw Drive

BC Motor Exposed (Standard motor) (Unit: mm)

Technical drawing showing side, front, and detail views of the BC Motor Exposed (Standard motor). Dimensions include stroke (L), actuator origin (A), motor length (M), and various diameters (φd, φ35, φ8h7, φ4H7, φD, φ70). Callouts include R2H7X6:12, 2-φ6 Air fitting (Optional), 2*M-M5-6H:14 (Max. rotation depth) Ø4.5 through-hole, reverse φ6:5, 4-M5:12, 2-φ3H7:6, and Mechanical limit 1. The origin of actuator is 57.

Motor Model	Motor code Mx	S	D	d	F	B	B2
Delta 50W	M05	M4	46	30	6	51	27.5
Delta 100W	M10	M4	46	30	6	51	27.5
Parasiro 50W	P05	M3	45	30	6	51	27.5
Parasiro 100W	P10	M3	45	30	6	51	27.5
57 Standard Mapping motor	42	φ3.5	31	22	2	51	28.5
57 Standard Mapping motor	57	M4	47.14	38.1	3	57	28.5
60 Standard Mapping motor	60	M5	50	36	1.6	60	30

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.57	1.72	1.87	2.02	2.17	2.32	2.47	2.62	2.77	2.92	3.07	3.22	3.37	3.52	3.67	3.82

BC Motor Exposed (Enlarged motor) (Unit: mm)

Technical drawing showing side, front, and detail views of the BC Motor Exposed (Enlarged motor). Dimensions include stroke (L), actuator origin (A), motor length (M), and various diameters (φd, φ50, φ35, φ8h7, φ4H7, φD, φ70). Callouts include R2H7X6:12, 2-φ6 Air fitting (Optional), 2*M-M5-6H:14 (Max. rotation depth) Ø4.5 through-hole, reverse φ6:5, 4-M5:12, 2-φ3H7:6, and Mechanical limit 1. The origin of actuator is 127.

Motor Model	Motor code Mx	S
Delta 200W	M20	M5
Delta 400W	M40	M5
Parasiro 200W	P20	M4
Parasiro 400W	P40	M4

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	253	303	353	403	453	503	553	603	653	703	753	803	853	903	953	1003
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.57	1.72	1.87	2.02	2.17	2.32	2.47	2.62	2.77	2.92	3.07	3.22	3.37	3.52	3.67	3.82

KCH6 1-axis

BL Motor Left Side (Standard motor) (Unit: mm)

Technical drawing showing side, front, and detail views of the BL Motor Left Side (Standard motor). Dimensions include stroke (L), actuator origin (A), motor length (M), and various diameters (φd, φ4H7, φD, φ70). Callouts include R2H7X6:12, 2-φ6 Air fitting (Optional), 2*M-M5-6H:14 (Max. rotation depth) Ø4.5 through-hole, reverse φ6:5, 4-M5:12, 2-φ3H7:6, and Mechanical limit 1. The origin of actuator is 46.

Motor Model	Motor code Mx	S	D	d	F
Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Parasiro 50W	P05	M3	45	8	
Parasiro 100W	P10	M3	45	8	
42 Standard Mapping motor	42	φ3.5	31	5	31

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938	988
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.94	2.09	2.24	2.39	2.54	2.69	2.84	2.99	3.14	3.29	3.44	3.59	3.74	3.89	4.04	4.19

BL Motor Left Side (Enlarged motor) (Unit: mm)

Technical drawing showing side, front, and detail views of the BL Motor Left Side (Enlarged motor). Dimensions include stroke (L), actuator origin (A), motor length (M), and various diameters (φd, φ4H7, φD, φ70). Callouts include R2H7X6:12, 2-φ6 Air fitting (Optional), 2*M-M5-6H:14 (Max. rotation depth) Ø4.5 through-hole, reverse φ6:5, 4-M5:12, 2-φ3H7:6, and Mechanical limit 1. The origin of actuator is 123.

Motor Model	Motor code Mx	S	D	d	F	B
Delta 200W	M20	M5	70	14	50	
Delta 400W	M40	M5	70	14	50	
Parasiro 200W	P20	M4	70	11	50	
Parasiro 400W	P40	M4	70	14	50	
57 Standard Mapping motor	57	M4	8	47.14	38.1	
60 Standard Mapping motor	60	M5	8	50	36	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20

KCH6 1-axis

Clean Room Ball Screw Drive

KCH6 1-axis

BR Motor Right Side (Standard motor) (Unit: mm)

Motor Model: Motor Max S D d F

Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Panasonic 50W	P05	M3	45	8	
Panasonic 100W	P10	M3	45	8	
42 Standard (supply) motor	42	φ3.5	5	5	31

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938	988
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.94	2.09	2.24	2.39	2.54	2.69	2.84	2.99	3.14	3.29	3.44	3.59	3.74	3.89	4.04	4.19

BM Motor Bottom Side (Standard motor) (Unit: mm)

Motor Model: Motor Max S D d F

Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Panasonic 50W	P05	M3	45	8	
Panasonic 100W	P10	M3	45	8	
42 Standard (supply) motor	42	φ3.5	5	5	31

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938	988
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.94	2.09	2.24	2.39	2.54	2.69	2.84	2.99	3.14	3.29	3.44	3.59	3.74	3.89	4.04	4.19

BR Motor Right Side (Enlarged motor) (Unit: mm)

Motor Model: Motor Max S D d F B

Delta 200W	M20	M5	70	14	50	
Delta 400W	M40	M5	70	14	50	
Panasonic 200W	P20	M4	70	11	50	
Panasonic 400W	P40	M4	70	14	50	
57 Standard (supply) motor	57	M4	8	47.14	38.1	
60 Standard (supply) motor	60	M5	8	50	36	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20

BM Motor Bottom Side (Enlarged motor) (Unit: mm)

Motor Model: Motor Max S D d F B

Delta 200W	M20	M5	70	14	50	
Delta 400W	M40	M5	70	14	50	
Panasonic 200W	P20	M4	70	11	50	
Panasonic 400W	P40	M4	70	14	50	
57 Standard (supply) motor	57	M4	8	47.14	38.1	
60 Standard (supply) motor	60	M5	8	50	36	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

BW Motor Upper Side (Standard motor) (Unit: mm)

Technical drawing showing front, side, and detail views of the KCH6 standard motor. Dimensions include stroke (L), total length (L), distance from origin to actuator (A), and motor width (M). Callouts include: $\phi 4H7/12$, $R2H7X6/12$, 2- $\phi 6$ Air fitting (Optional), 2" \times M5-6H \pm 14 (Max. rotation depth) $\phi 4.5$ through-hole, reverse $\phi 6 \pm 5$, 4-M5 \pm 12, 2- $\phi 3H7/6$, Mechanical limit 46, Origin of actuator 112, Mechanical limit 1, and Stroke.

Motor Model	Motor Size	S	D	d	F
Delta 50W	M05	M4	46	8	
Delta 100W	M10	M4	46	8	
Parasac 50W	P05	M3	45	8	
Parasac 100W	P10	M3	45	8	
42 Standard (Supply) motor	42	$\phi 3.5$	5	31	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938	988
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.94	2.09	2.24	2.39	2.54	2.69	2.84	2.99	3.14	3.29	3.44	3.59	3.74	3.89	4.04	4.19

BW Motor Upper Side (Enlarged motor) (Unit: mm)

Technical drawing showing front, side, and detail views of the KCH6 enlarged motor. Dimensions include stroke (L), total length (L), distance from origin to actuator (A), and motor width (M). Callouts include: $\phi 4H7/12$, $R2H7X6/12$, 2- $\phi 6$ Air fitting (Optional), 2" \times M5-6H \pm 14 (Max. rotation depth) $\phi 4.5$ through-hole, reverse $\phi 8 \pm 5$, 4-M5 \pm 12, 2- $\phi 3H7/6$, Mechanical limit 57, Origin of actuator 123, Mechanical limit 1, and Stroke.

Motor Model	Motor Size	S	D	d	F	B
Delta 200W	M20	M5	70	14	50	
Delta 400W	M40	M5	70	14	50	
Parasac 200W	P20	M4	70	11	50	
Parasac 400W	P40	M4	70	14	50	
57 Standard (Supply) motor	57	M4	8	47.14	38.1	
60 Standard (Supply) motor	60	M5	8	50	36	

stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
A	56	26	36	46	56	26	36	46	56	26	36	46	56	26	36	46
M	4	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23
kg	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20

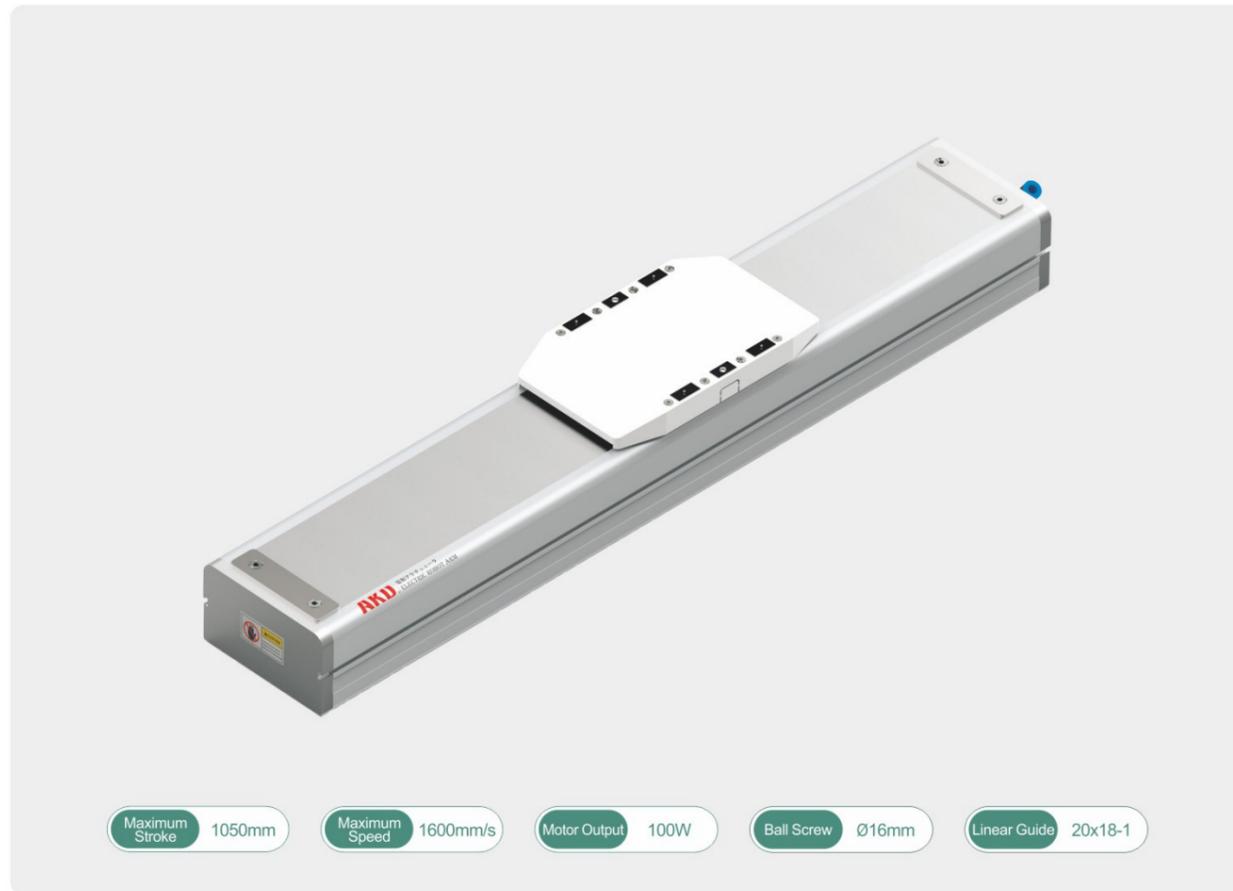
MEMO

KCH10 1-axis

Clean Room

Ball Screw Drive

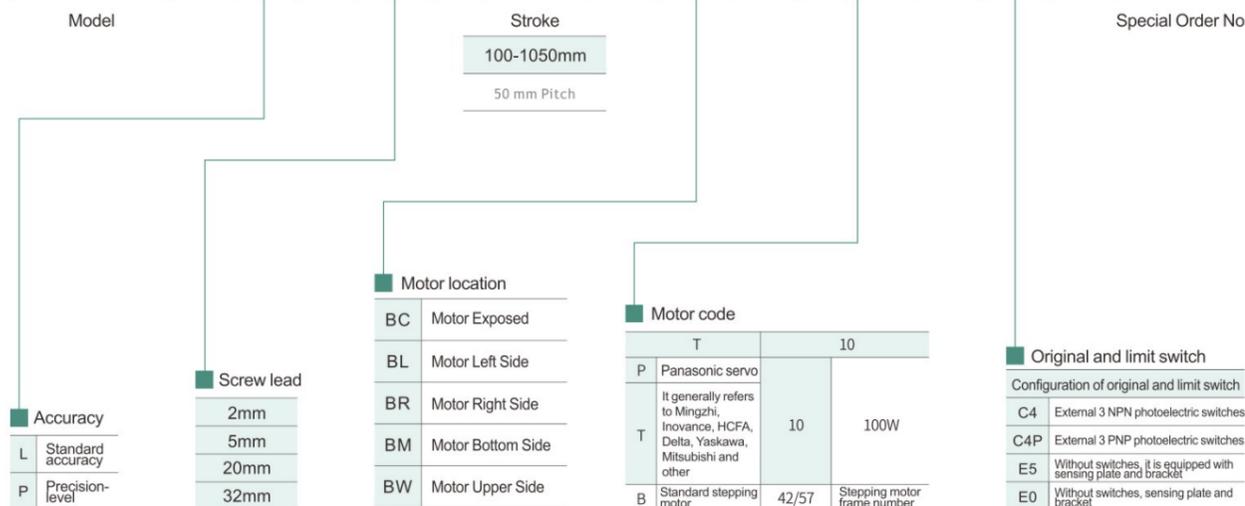
KCH10 1-axis



Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 100W Ball Screw Ø16mm Linear Guide 20x18-1

Ordering Method

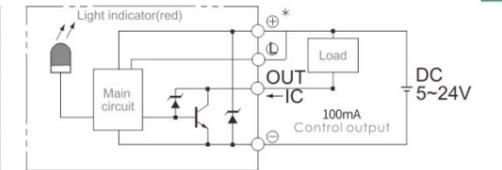
KCH10 - L 10 - 300 - BC - P10 - C4 - D123



Specification

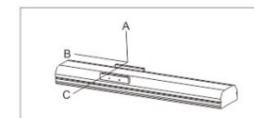
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	341	170	85	53	
Parts	Stroke Pitch (mm)	50-800mm/50 mm Pitch				
	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W20XH18				
	Coupling (mm)	10X8				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



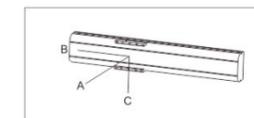
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



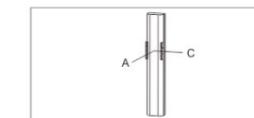
(Unit: mm)

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



(Unit: mm)

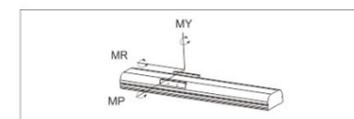
Wall Installation		A	B	C
2 Lead	25kg	52	53	670
	35kg	35	35	455
	50kg	21	22	298
5 Lead	10kg	124	131	770
	20kg	58	61	382
	30kg	35	37	242
20 Lead	6kg	160	185	562
	12kg	76	88	272
	18kg	48	55	175
32 Lead	2kg	300	393	733
	5kg	116	152	288
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



(Unit: mm)

MY	110
MP	110
MR	120

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

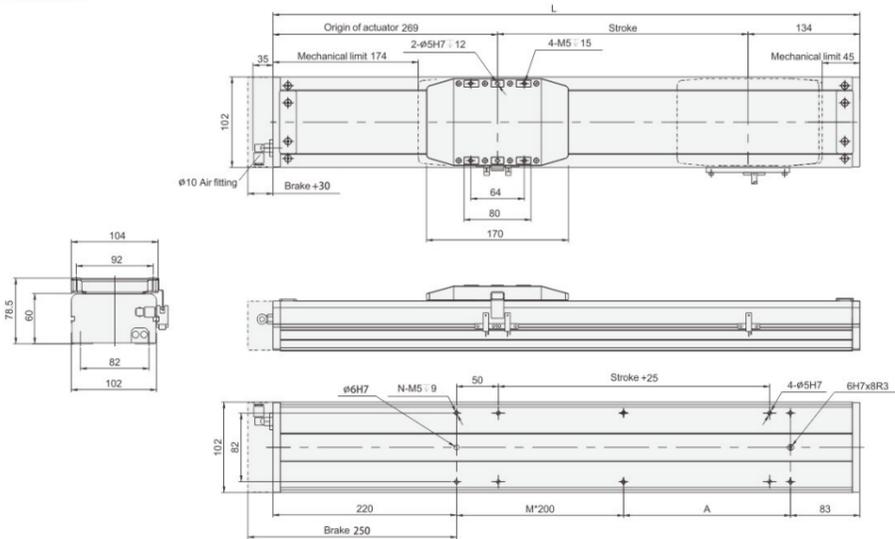
KCH10 1-axis

Clean Room Ball Screw Drive

KCH10 1-axis

M Motor Hidden In

(Unit: mm)

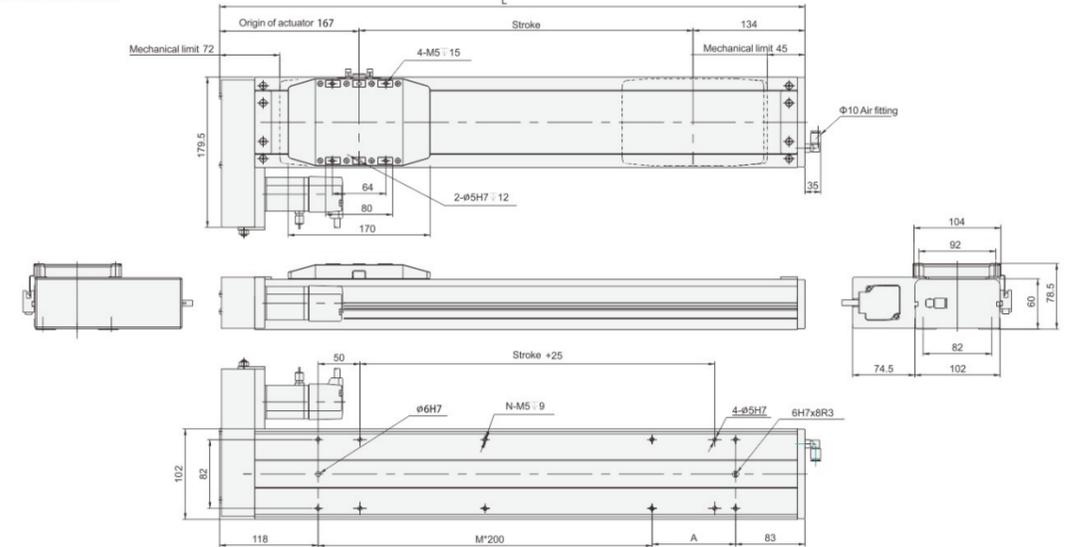


Length will be added 40mm while using Delta 400w motor

stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453
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	5.98	6.39	6.81	7.22	7.63	8.05	8.46	8.87	9.28	9.7	10.11	10.52	10.94	11.35	11.76	12.17	12.58	13	13.41	13.82

BL Motor Left Side

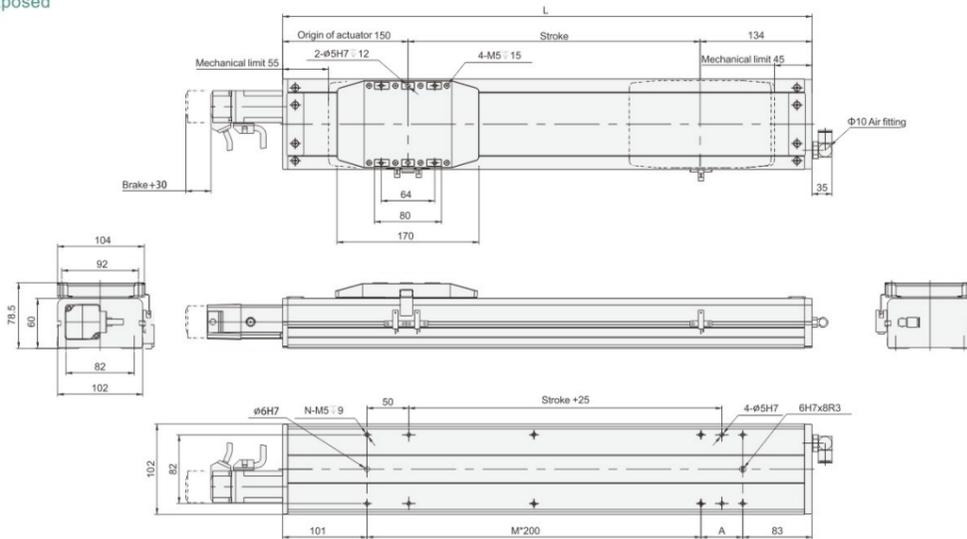
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
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	5.9	6.31	6.72	7.13	7.55	7.96	8.37	8.78	9.19	9.61	10.02	10.43	10.84	11.25	11.67	12.08	12.49	12.91	13.32	13.73

BC Motor Exposed

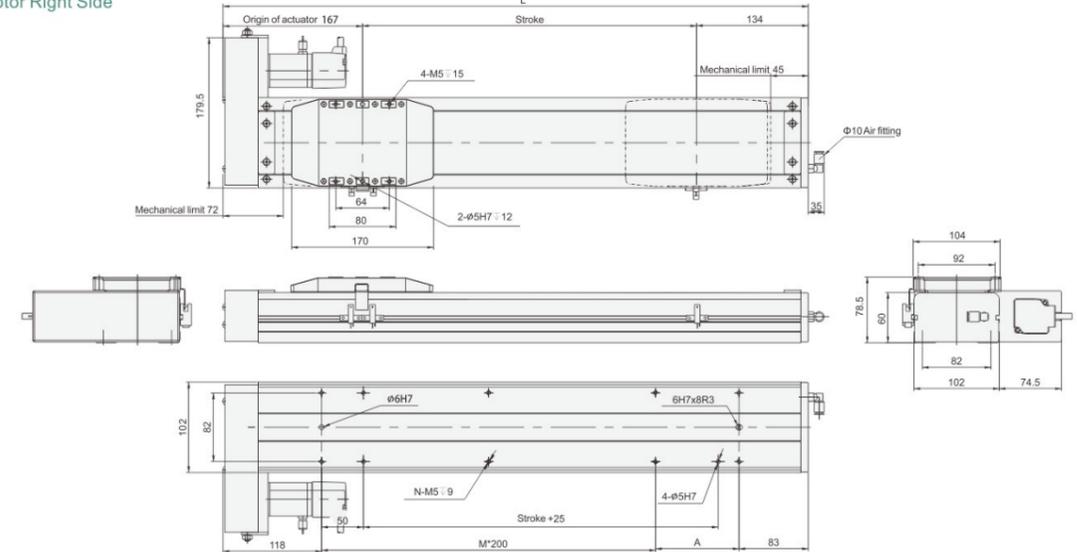
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334
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	5.49	5.91	6.33	6.75	7.17	7.59	8.02	8.44	8.86	9.28	9.7	10.12	10.54	10.96	11.38	11.8	12.22	12.64	13.06	13.48

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	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
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	5.9	6.31	6.72	7.13	7.55	7.96	8.37	8.78	9.19	9.61	10.02	10.43	10.84	11.25	11.67	12.08	12.49	12.91	13.32	13.73

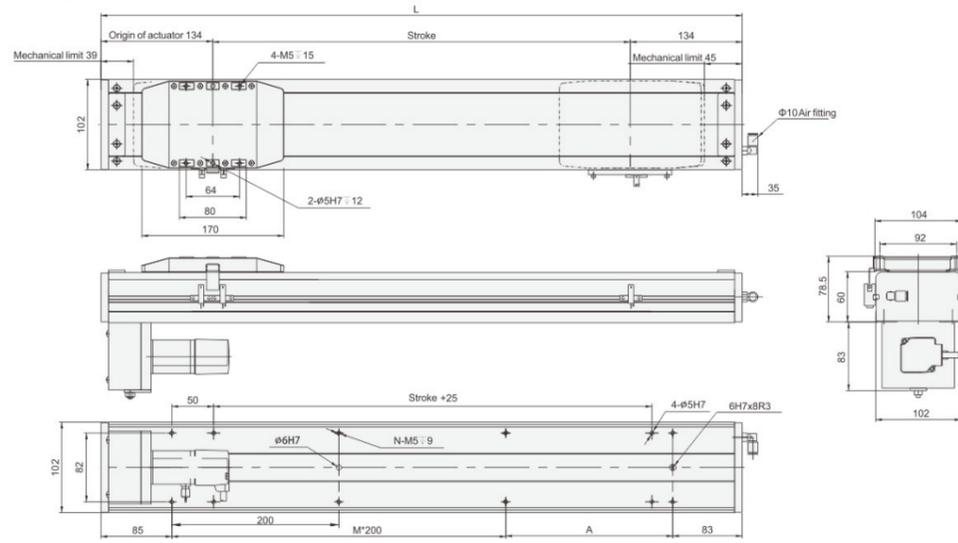
KCH10 1-axis

Clean Room

Ball Screw Drive

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	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
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	5.9	6.31	6.72	7.13	7.55	7.96	8.37	8.78	9.19	9.61	10.02	10.43	10.84	11.25	11.67	12.08	12.49	12.91	13.32	13.73

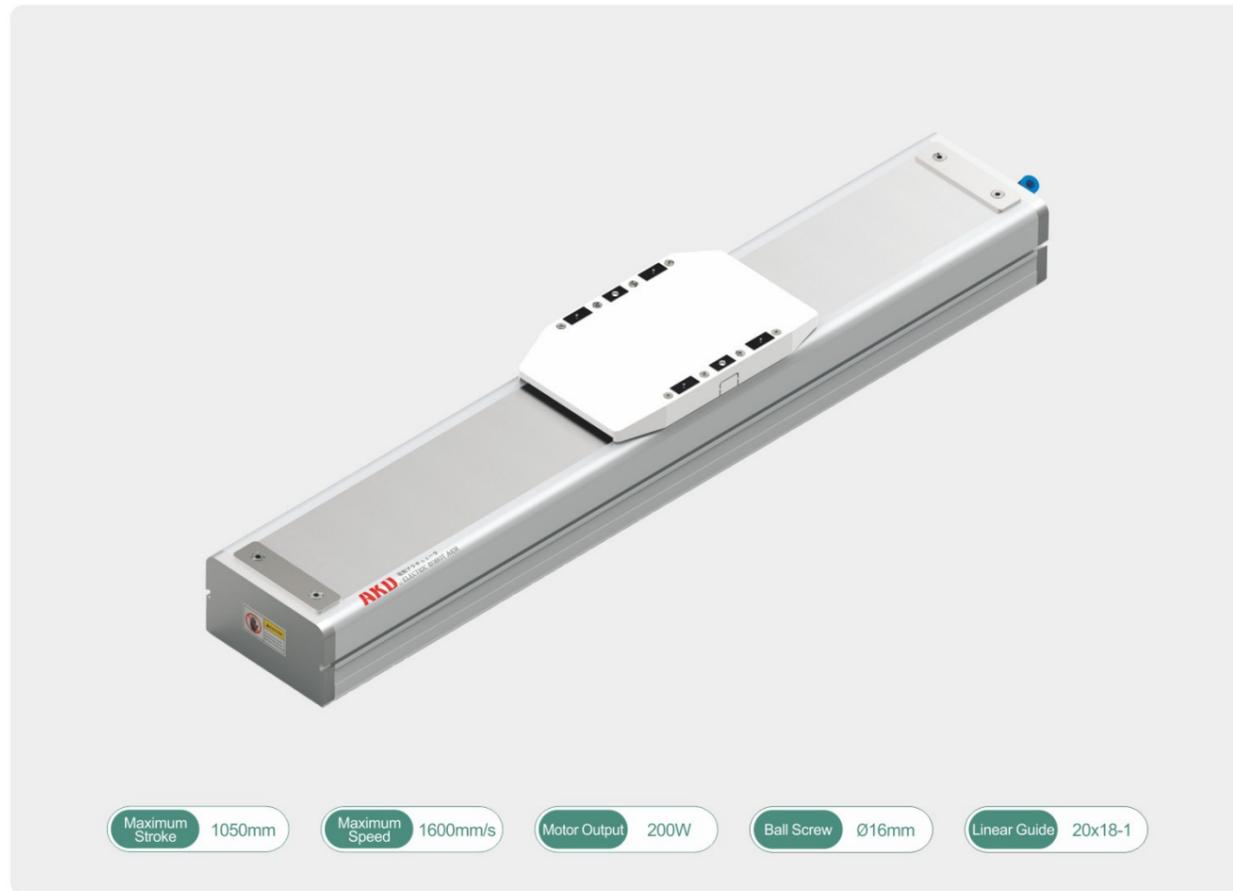
MEMO

KCH10 1-axis

Clean Room

Ball Screw Drive

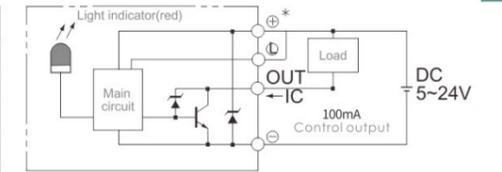
KCH10 1-axis



Specification

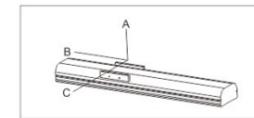
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	683	341	213	174	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball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

Sensor Layout



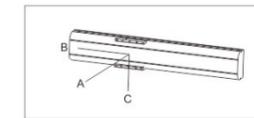
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



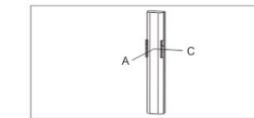
(Unit: mm)

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



(Unit: mm)

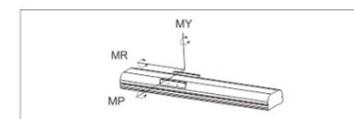
Wall Installation	A B C		
	5 Lead	25kg 52	53 455
10 Lead	10kg 124	131 770	20kg 58 61 382
	6kg 160	185 562	30kg 35 37 242
20 Lead	12kg 76	88 272	18kg 48 55 175
	2kg 300	393 733	5kg 116 152 288
32 Lead	-	-	-



(Unit: mm)

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

Static Loading Moment



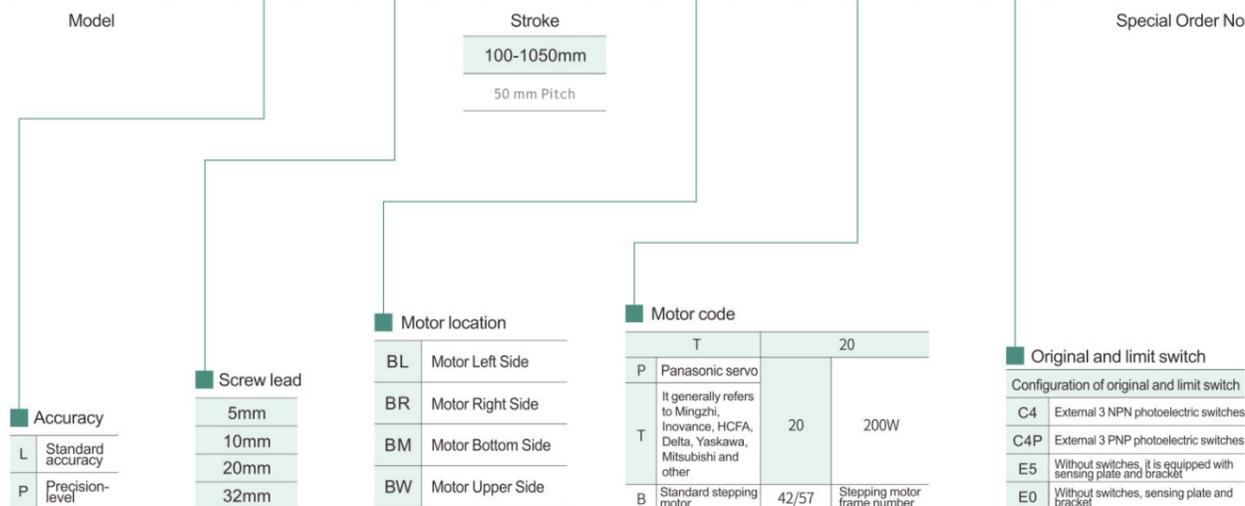
(Unit: mm)

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

KCH10 - L 10 - 300 - BC - P20 - C4 - D123



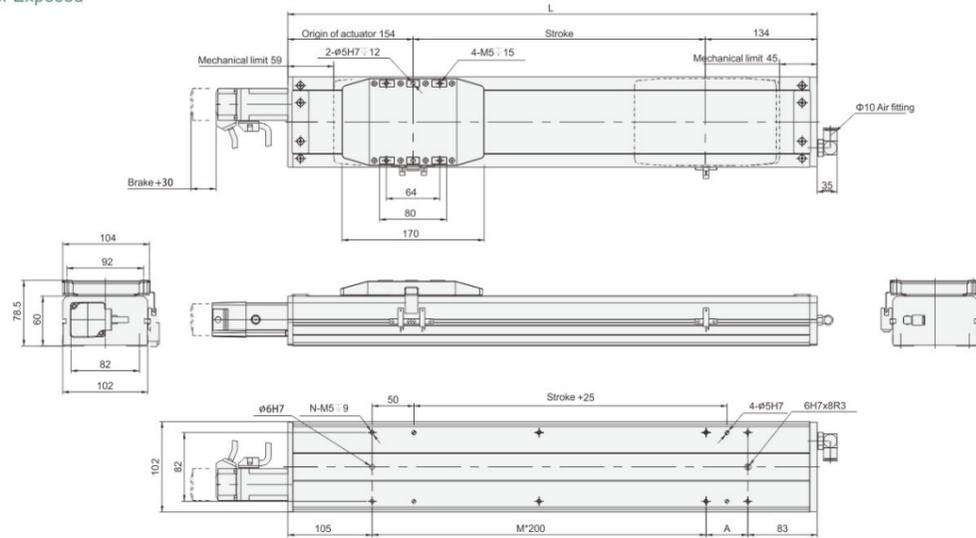
KCH10 1-axis

Clean Room Ball Screw Drive

KCH10 1-axis

BC Motor Exposed

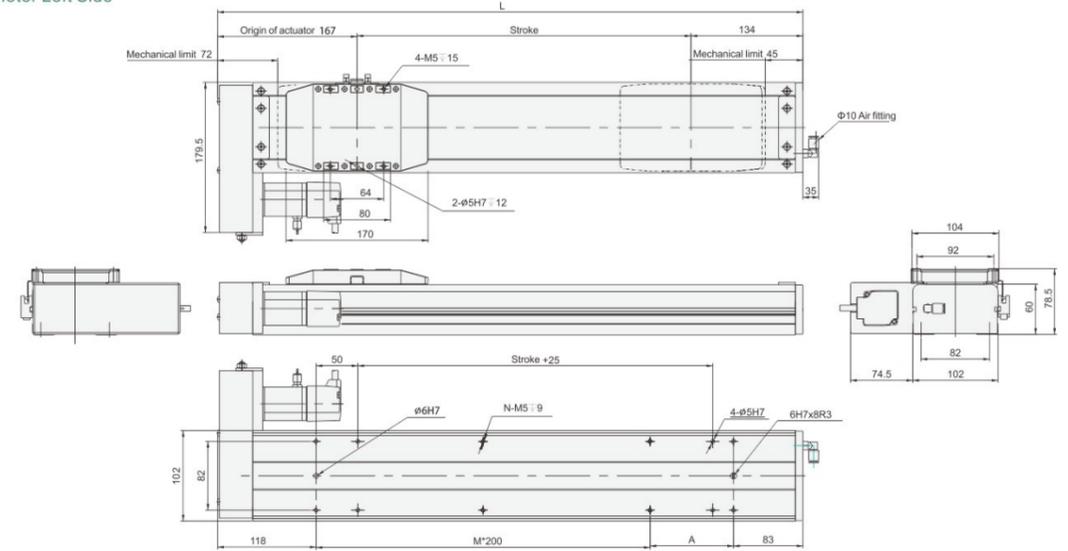
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338
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	6.09	6.51	6.93	7.35	7.77	8.19	8.61	9.03	9.45	9.87	10.29	10.71	11.13	11.55	11.97	12.39	12.81	13.23	13.65	14.07

BL Motor Left Side

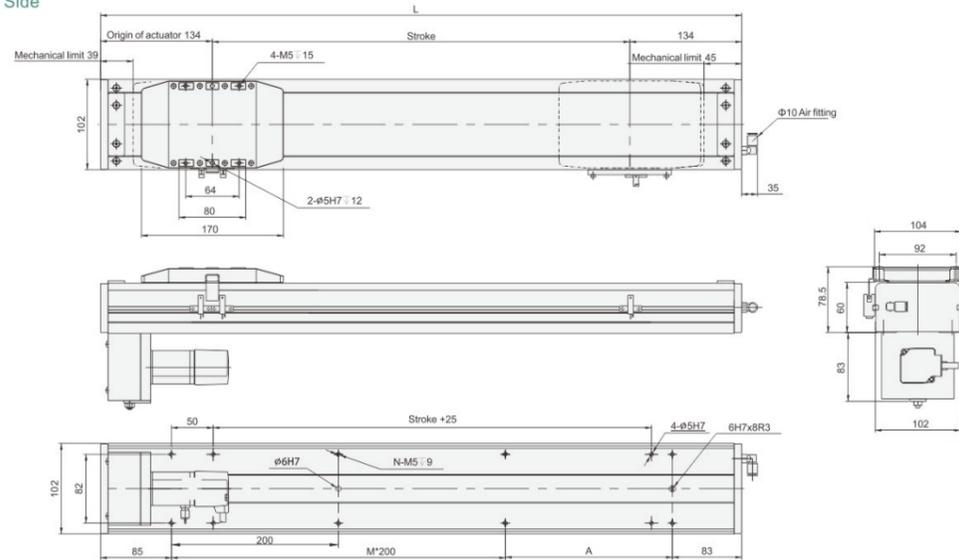
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
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	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.91	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19

BM Motor Bottom Side

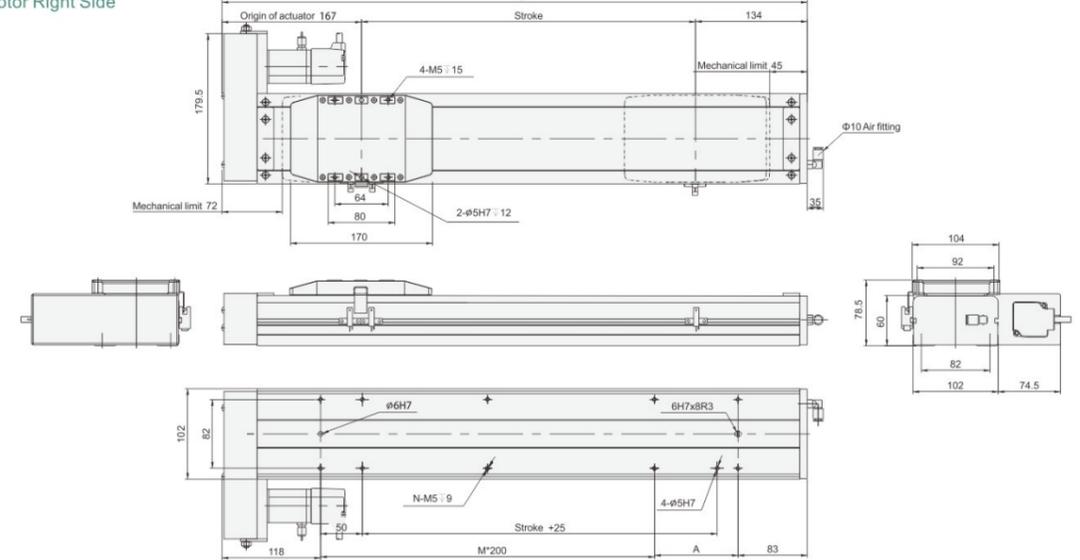
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
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	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.91	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19

BR Motor Right Side

(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351
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	6.4	6.81	7.22	7.63	8.04	8.45	8.86	9.27	9.68	10.09	10.5	10.91	11.32	11.73	12.14	12.55	12.96	13.37	13.78	14.19

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

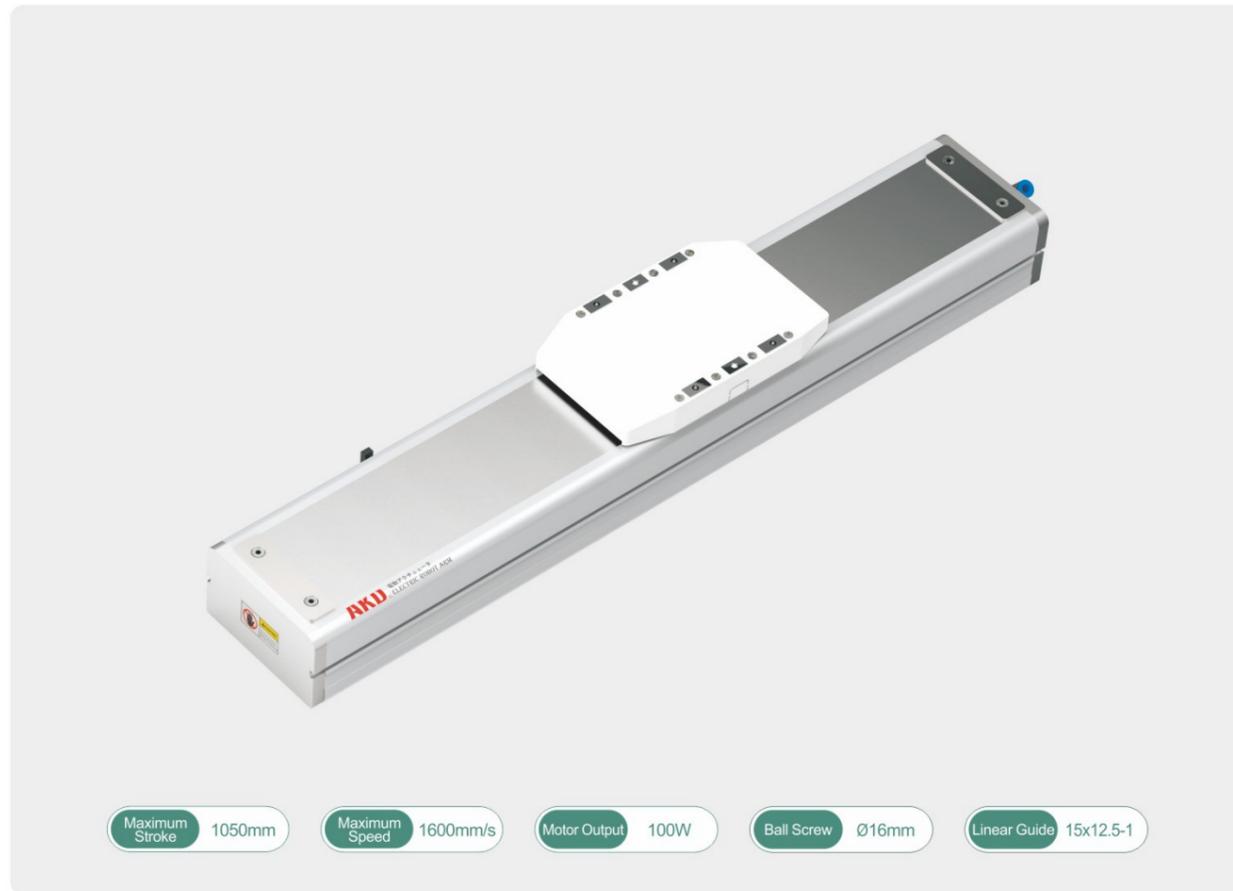
- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

KCH12 1-axis

Clean Room

Ball Screw Drive

KCH12 1-axis

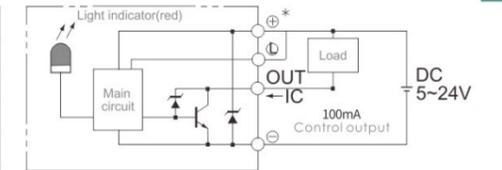


Maximum Stroke 1050mm | Maximum Speed 1600mm/s | Motor Output 100W | Ball Screw Ø16mm | Linear Guide 15x12.5-1

Specification

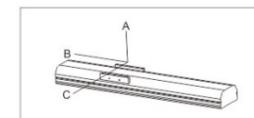
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	341	170	85	53	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	100				
	Ball Screw Ø (mm)	C7 Ø 16				
	High Rigidity Linear Guide (mm)	W15XH12.5				
	Coupling (mm)	10X8				
Home Sensor	Outside	EE-SX672(NPN)				

Sensor Layout



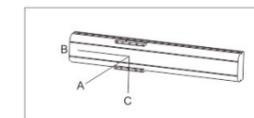
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



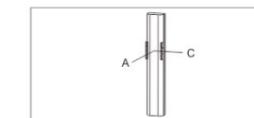
(Unit: mm)

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



(Unit: mm)

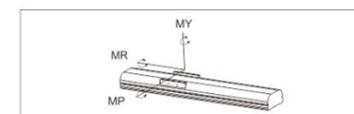
Wall Installation		A	B	C
5 Lead	25kg	100	84	1102
	35kg	63	52	725
	50kg	35	29	433
10 Lead	10kg	250	221	1311
	20kg	110	97	633
	30kg	64	56	385
20 Lead	6kg	317	316	955
	12kg	147	144	455
	18kg	89	88	288
32 Lead	2kg	591	682	1256
	5kg	224	255	488
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



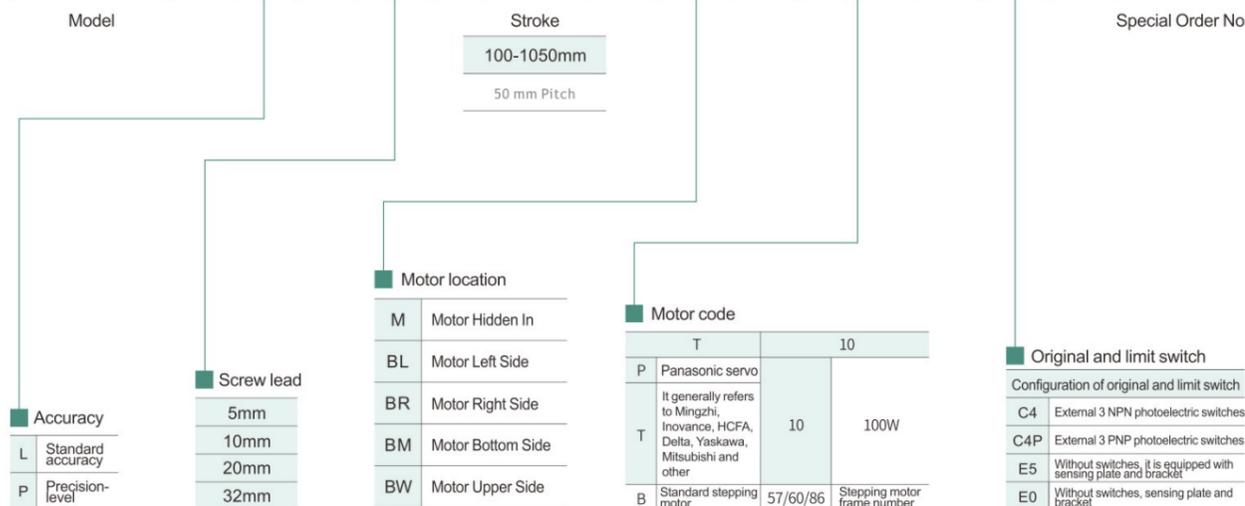
(Unit: mm)

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

KCH12 - L 10 - 300 - BC - P10 - C4 - D123



- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

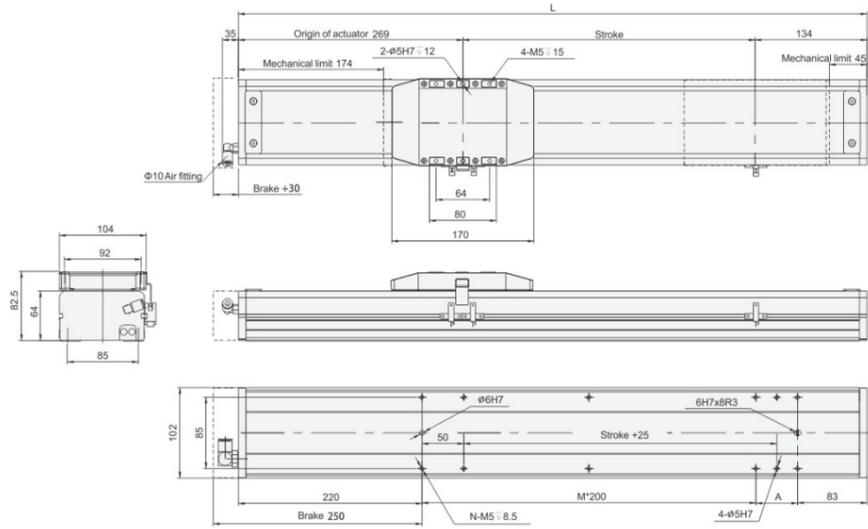
KCH12 1-axis

Clean Room Ball Screw Drive

KCH12 1-axis

M Motor Hidden In

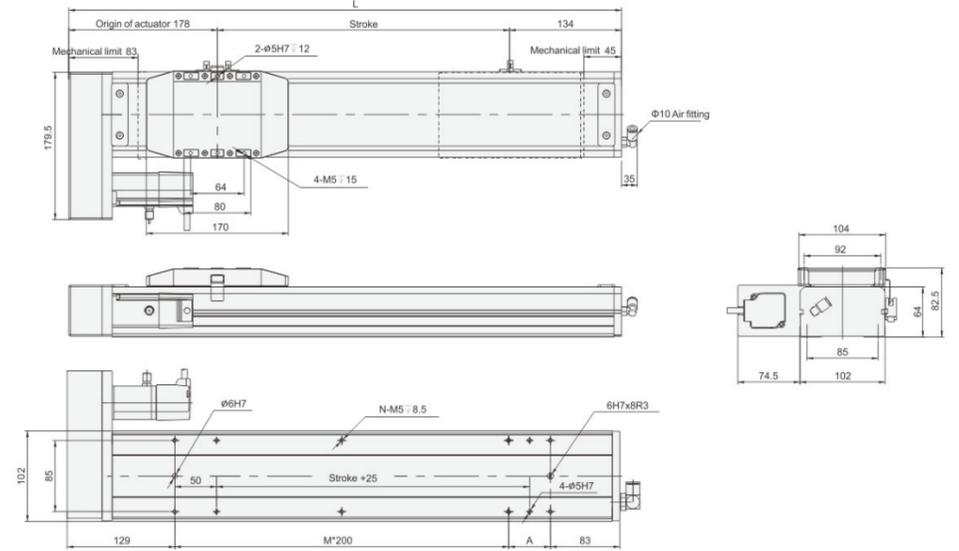
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253	1303	1353	1403	1453
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	6.75	7.18	7.6	8.03	8.45	8.88	9.3	9.73	10.15	10.58	11	11.43	11.85	12.28	12.7	13.13	13.55	13.98	14.4	14.83

BL Motor Left Side

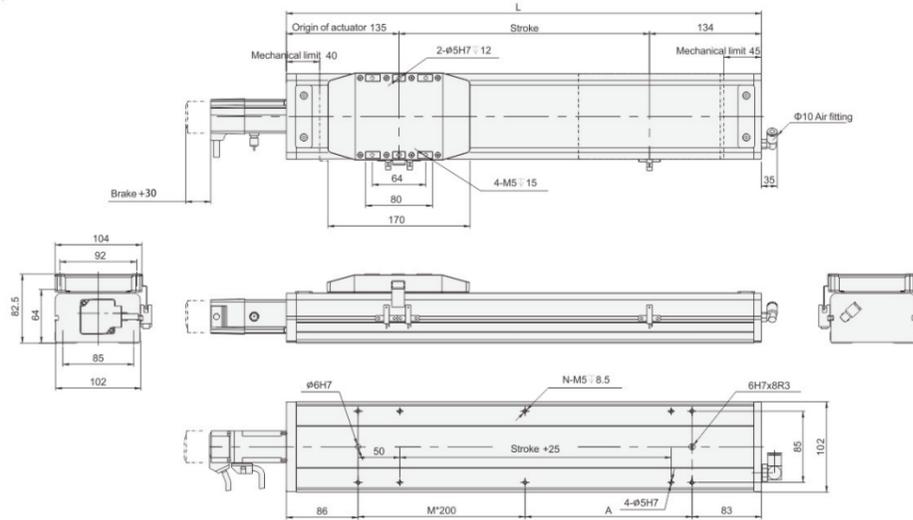
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
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	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93

BC Motor Exposed

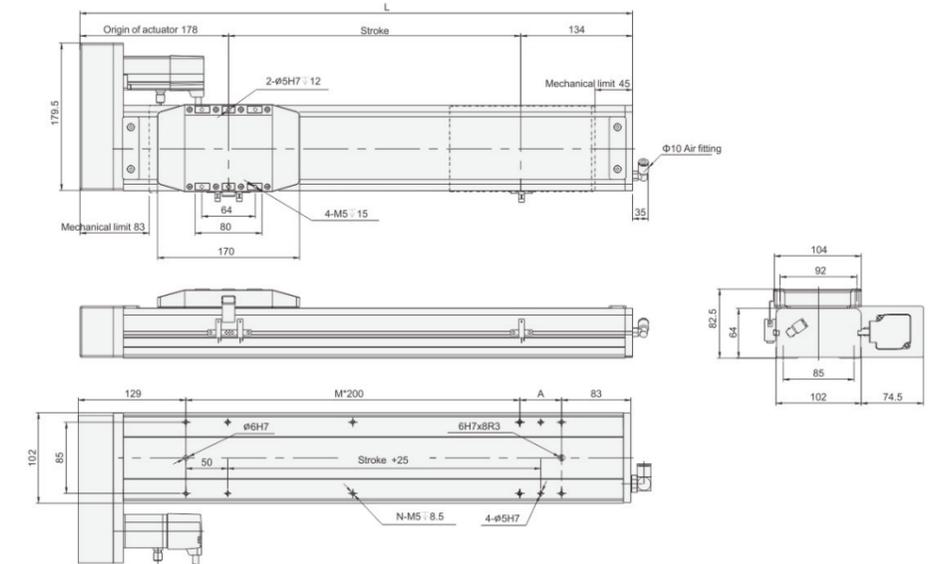
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319
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	6.02	6.45	6.87	7.3	7.72	8.15	8.57	9	9.42	9.85	10.27	10.7	11.12	11.55	11.97	12.4	12.82	13.25	13.67	14.1

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	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
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	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93

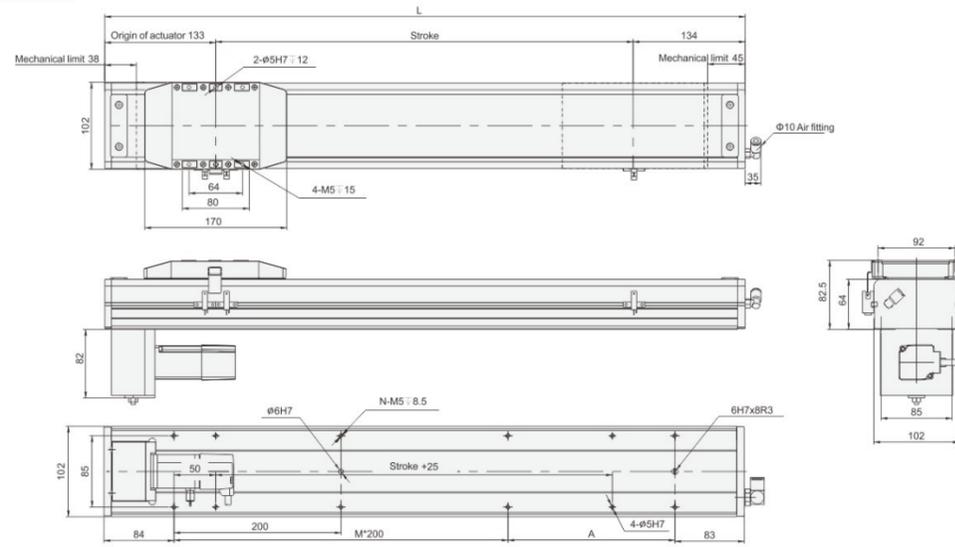
KCH12 1-axis

Clean Room

Ball Screw Drive

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	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
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	6.85	7.28	7.7	8.13	8.55	8.98	9.4	9.83	10.25	10.68	11.1	11.53	11.95	12.38	12.8	13.23	13.65	14.08	14.5	14.93

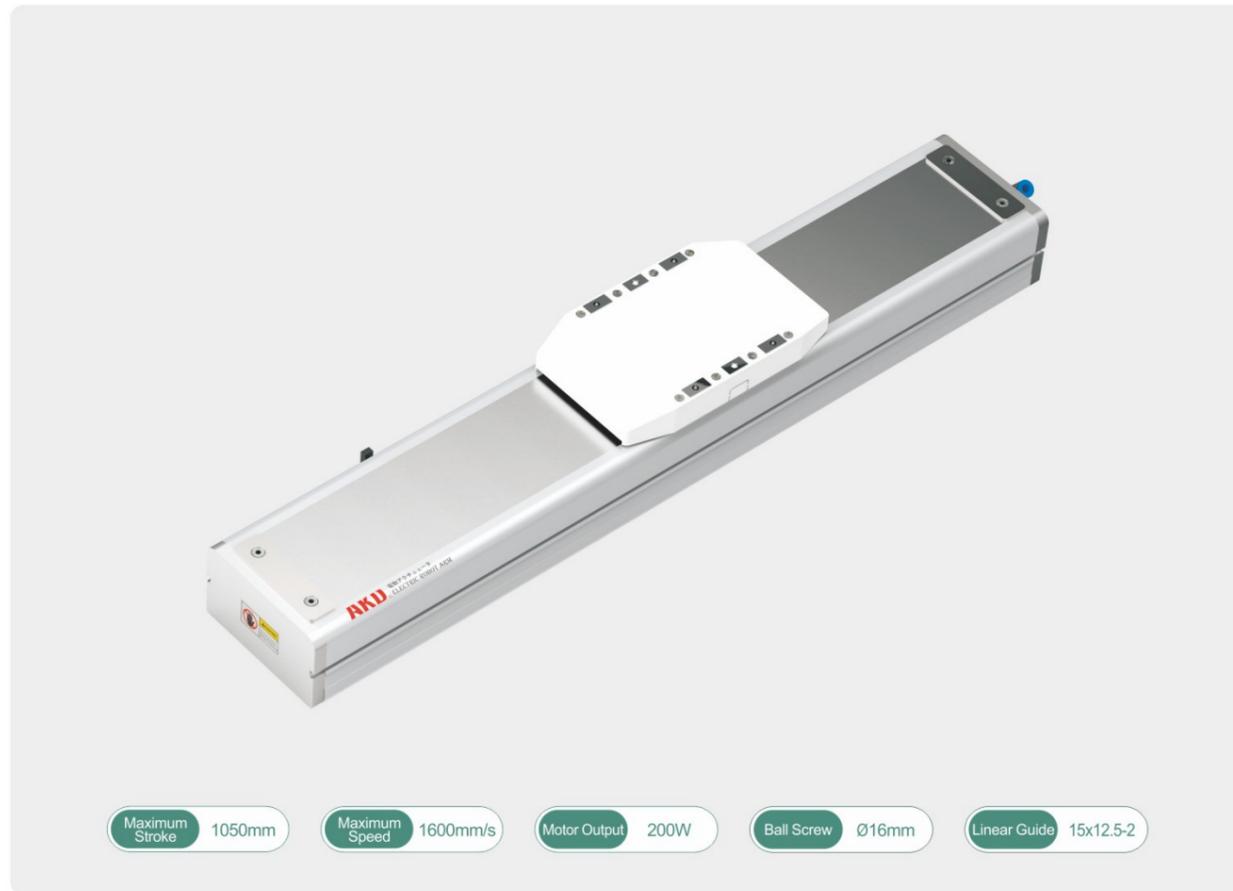
MEMO

KCH12 1-axis

Clean Room

Ball Screw Drive

KCH12 1-axis

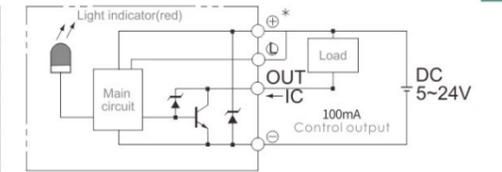


Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 200W Ball Screw Ø16mm Linear Guide 15x12.5-2

Specification

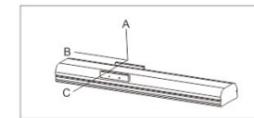
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	50	30	18	5
		Vertical (kg)	12	8	3	-
	Rated Thrust (N)	683	341	213	174	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	Ball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

Sensor Layout



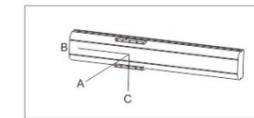
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



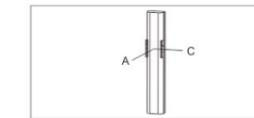
(Unit: mm)

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



(Unit: mm)

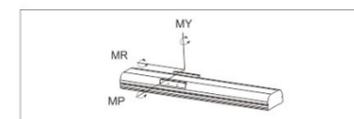
Wall Installation	A	B	C
5 Lead	25kg	100	84
	35kg	63	52
	50kg	35	29
10 Lead	10kg	250	221
	20kg	110	97
	30kg	64	56
20 Lead	6kg	317	316
	12kg	147	144
	18kg	89	88
32 Lead	2kg	591	682
	5kg	224	255
	-	-	-



(Unit: mm)

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

Static Loading Moment



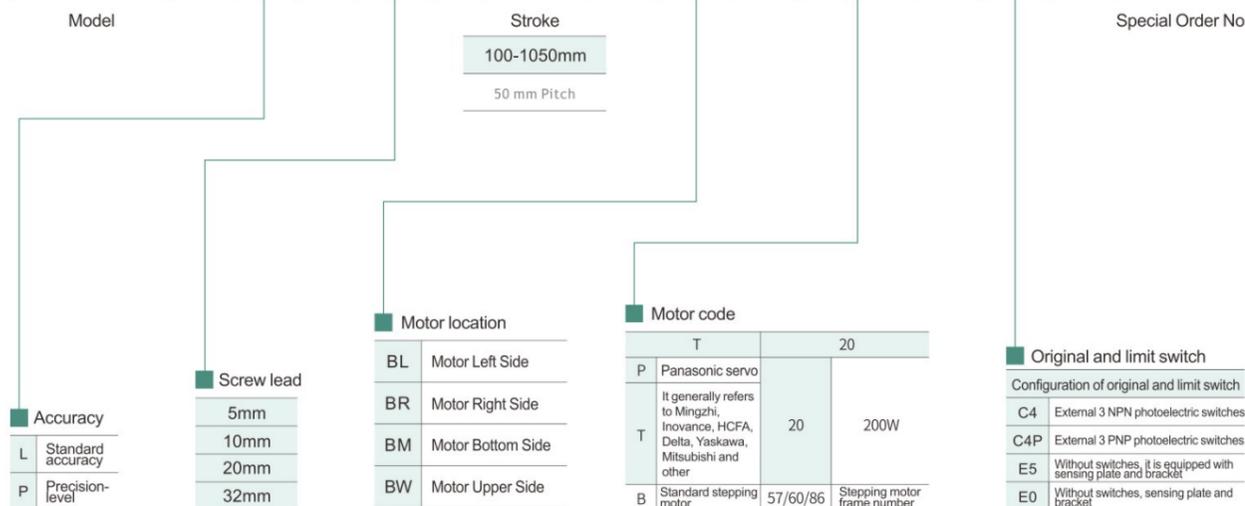
(Unit: mm)

MY	150
MP	150
MR	130

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

Ordering Method

KCH12 - L 10 - 300 - BC - P20 - C4 - D123



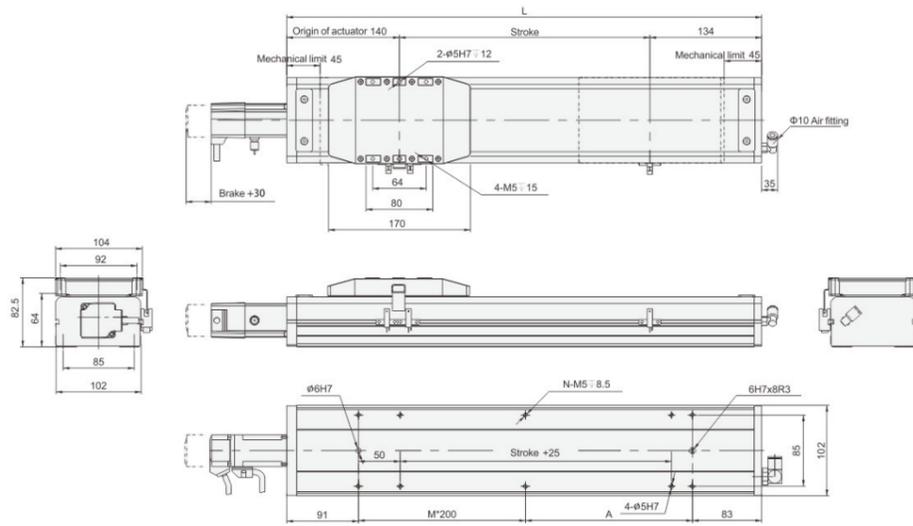
KCH12 1-axis

Clean Room Ball Screw Drive

KCH12 1-axis

BC Motor Exposed

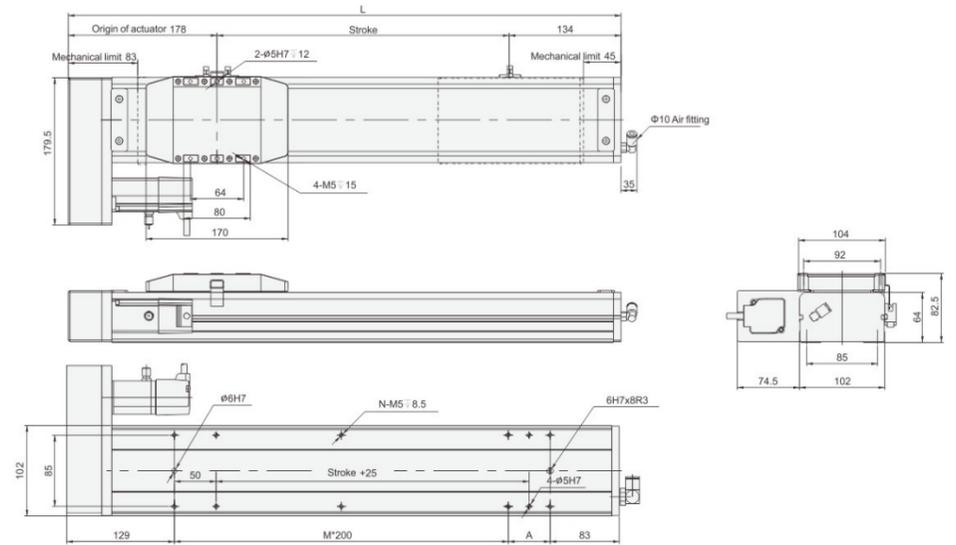
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324
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	6.62	7.05	7.48	7.91	8.43	8.77	9.2	9.63	10.06	10.49	10.92	11.35	11.78	12.21	12.64	13.07	13.5	13.93	14.36	14.79

BL Motor Left Side

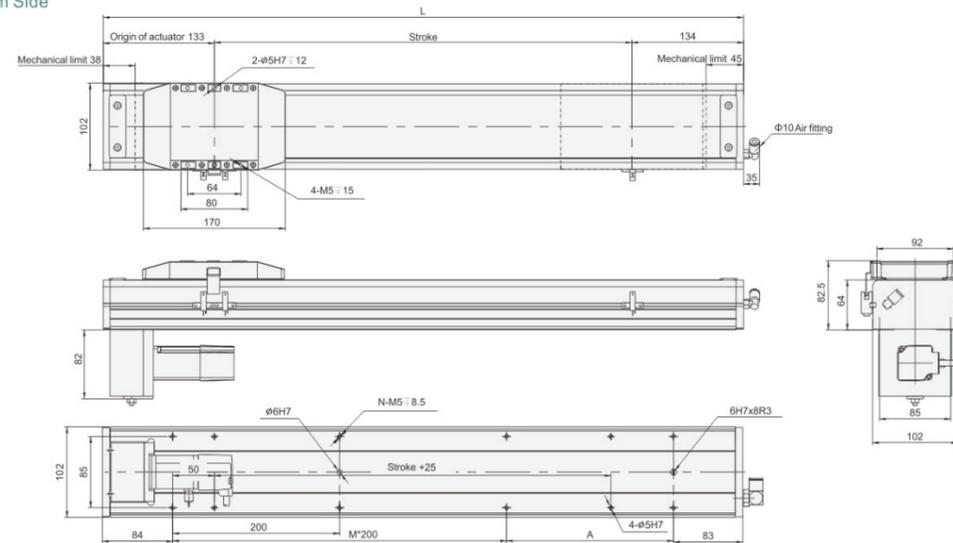
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
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	7.45	7.88	8.31	8.74	9.17	9.6	10.03	10.46	10.89	11.32	11.75	12.18	12.61	13.04	13.47	13.9	14.33	14.76	15.19	15.62

BM Motor Bottom Side

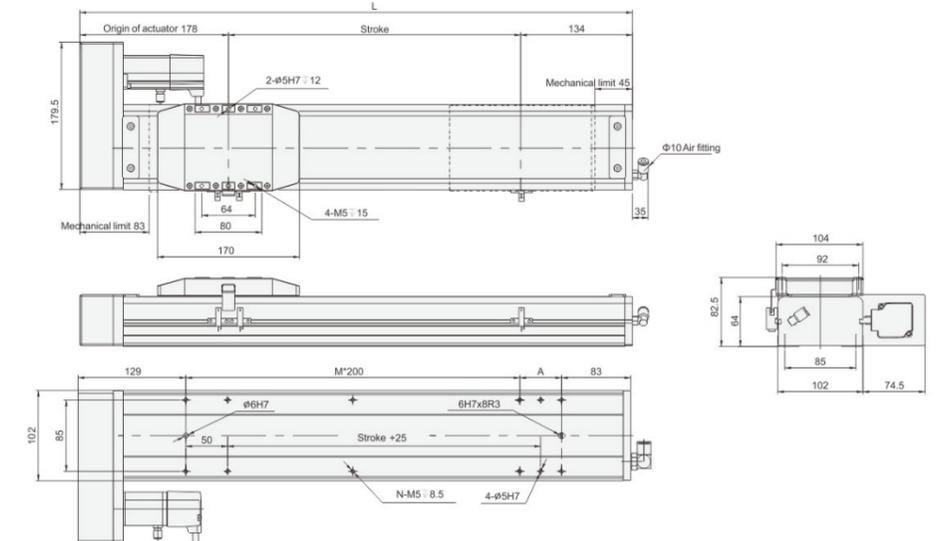
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
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	7.65	8.08	8.51	8.94	9.37	9.8	10.23	10.66	11.09	11.52	11.95	12.38	12.81	13.24	13.67	14.1	14.53	14.96	15.39	15.82

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	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
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	7.45	7.88	8.31	8.74	9.17	9.6	10.03	10.46	10.89	11.32	11.75	12.18	12.61	13.04	13.47	13.9	14.33	14.76	15.19	15.62

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

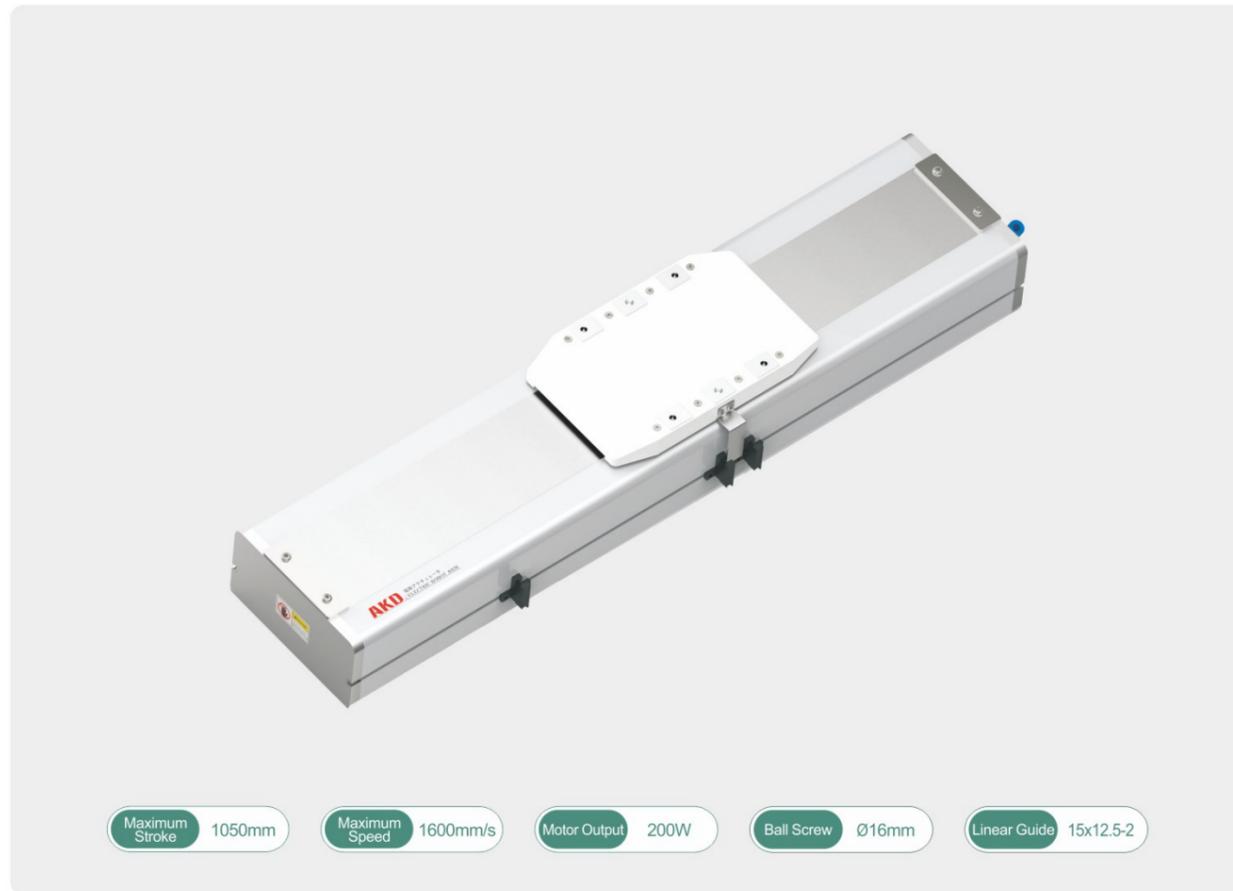
- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

KCH14 1-axis

Clean Room

Ball Screw Drive

KCH14 1-axis

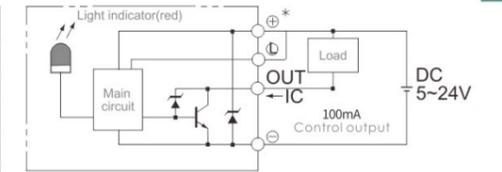


Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 200W Ball Screw Ø16mm Linear Guide 15x12.5-2

Specification

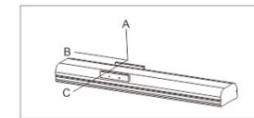
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	95	75	35	15
		Vertical (kg)	27	18	7	-
Rated Thrust (N)	683	341	174	107		
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	200				
	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



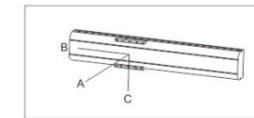
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



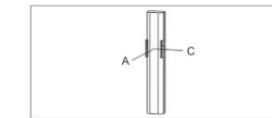
(Unit: mm)

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



(Unit: mm)

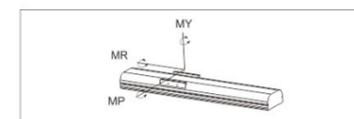
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	95kg	133	138	1537
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	75kg	150	164	1004
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	35kg	271	324	1005
32 Lead	8kg	787	1060	1980
	15kg	405	545	1033
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



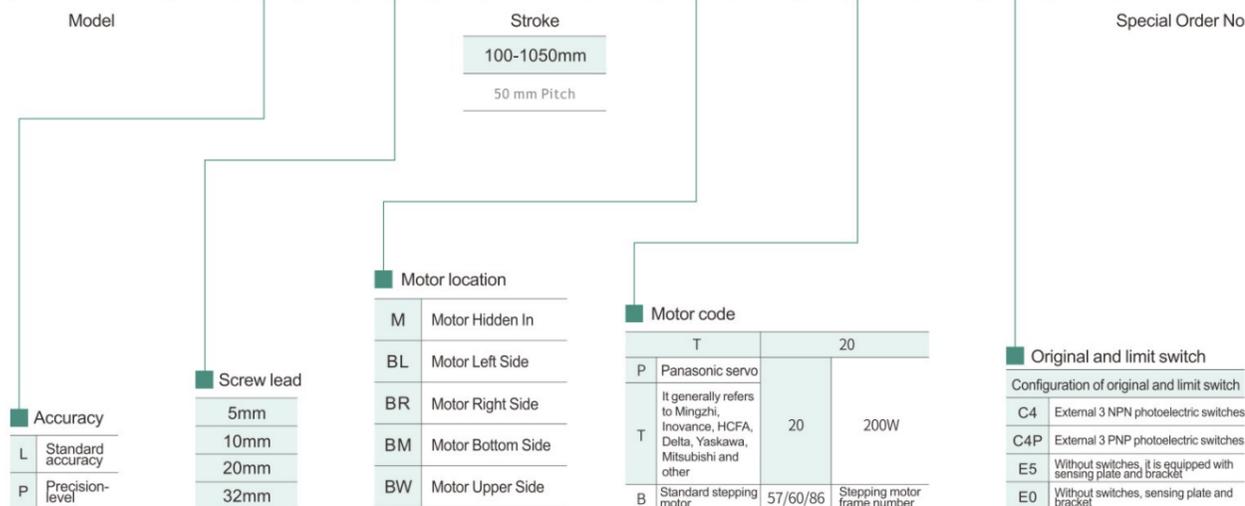
(Unit: mm)

MY	551
MP	552
MR	485

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

Ordering Method

KCH14 - L 10 - 300 - BC - P20 - C4 - D123



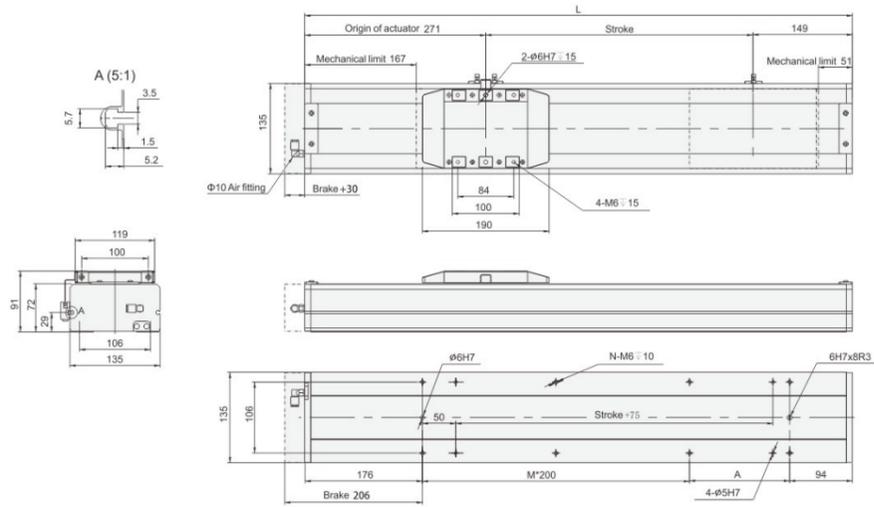
KCH14 1-axis

Clean Room Ball Screw Drive

KCH14 1-axis

M Motor Hidden In

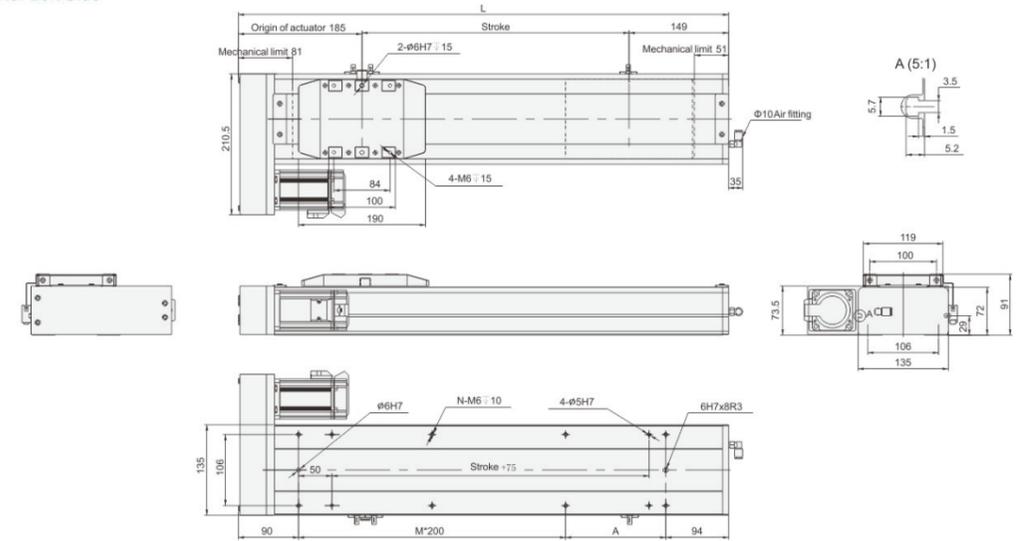
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470
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	12.1	12.7	13.3	13.9	14.5	15.1	15.7	16.3	16.9	17.5	18.1	18.7	19.3	19.9	20.5	21.1	21.7	22.3	22.9	23.5

BL Motor Left Side

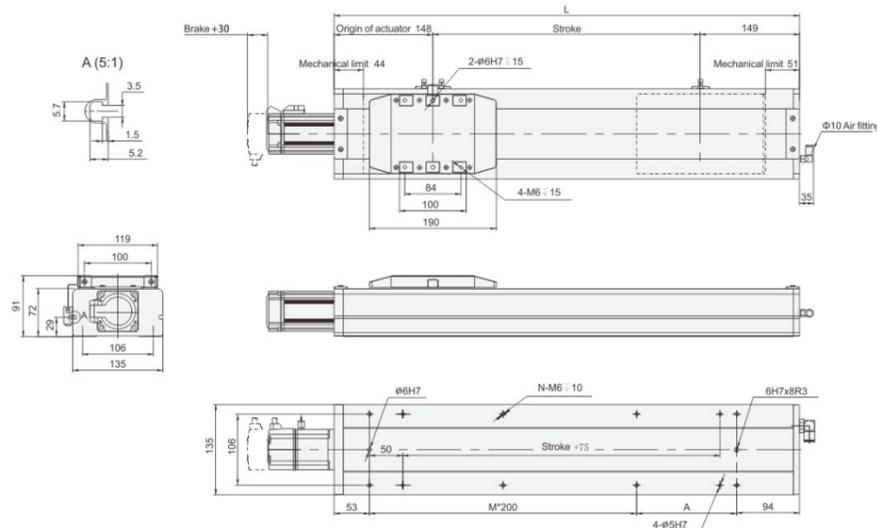
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
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	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

BC Motor Exposed

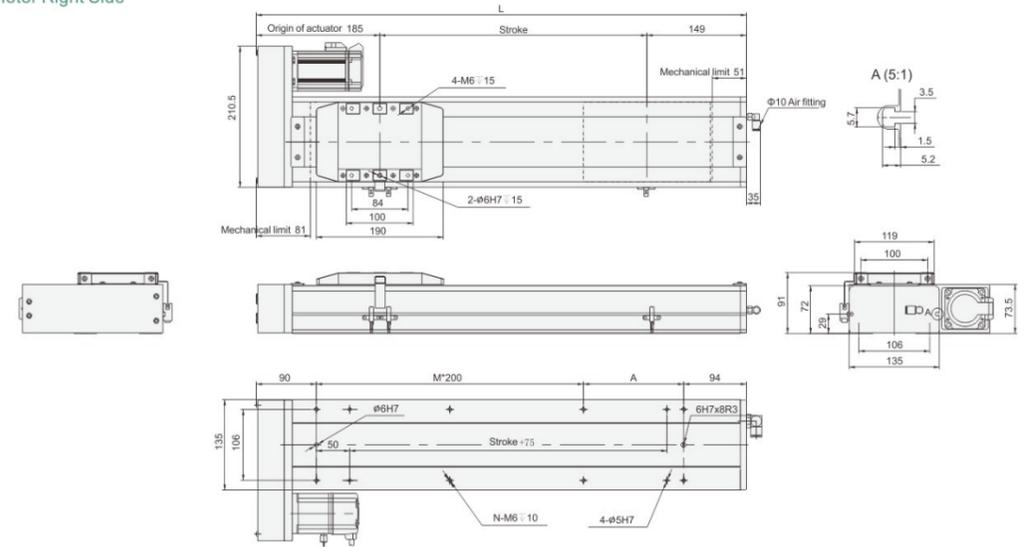
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347
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	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5

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	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
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	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

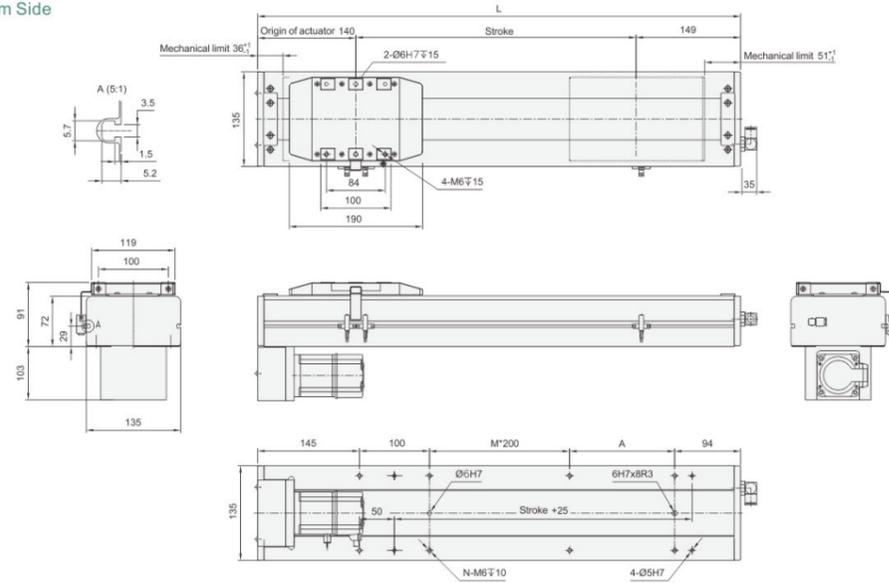
KCH14 1-axis

Clean Room

Ball Screw Drive

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	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339
A	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
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

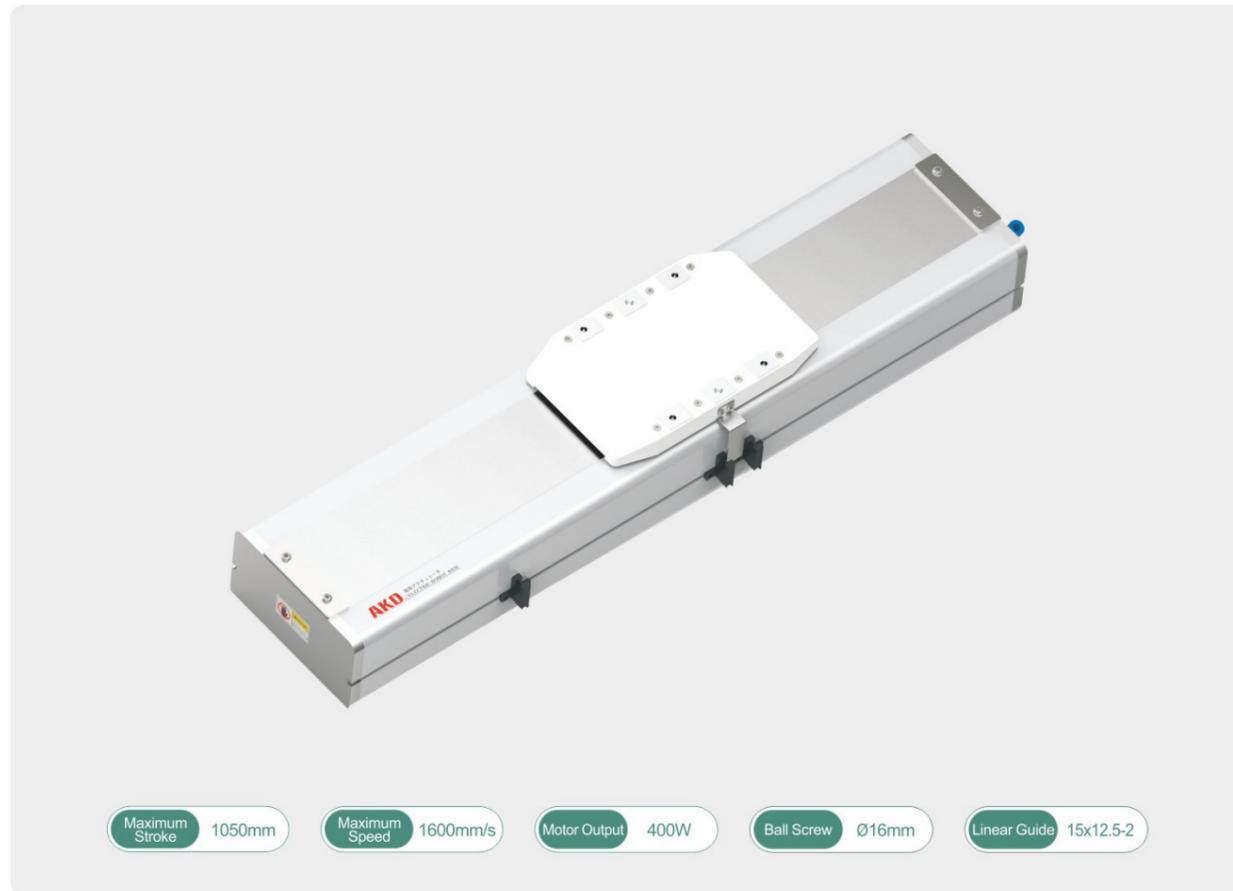
MEMO

KCH14 1-axis

Clean Room

Ball Screw Drive

KCH14 1-axis

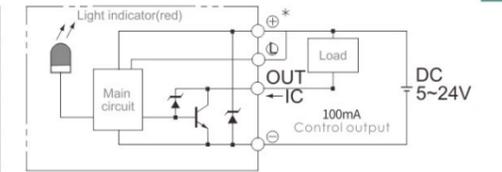


Maximum Stroke 1050mm Maximum Speed 1600mm/s Motor Output 400W Ball Screw Ø16mm Linear Guide 15x12.5-2

Specification

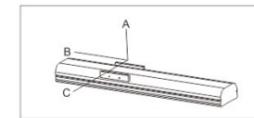
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	32	
	Maximum Speed (mm/s)	250	500	1000	1600	
	Maximum Payload	Horizontal (kg)	110	88	40	30
		Vertical (kg)	33	22	10	8
	Rated Thrust (N)	1388	694	347	217	
Parts	Stroke Pitch (mm)	100-1050mm/50 mm Pitch				
	AC Servo Motor Output (w)	400				
	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



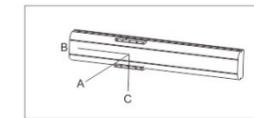
※ When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



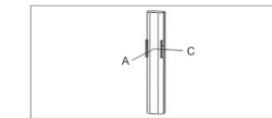
(Unit: mm)

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



(Unit: mm)

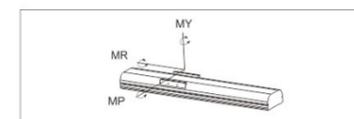
Wall Installation		A	B	C
5 Lead	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
10 Lead	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
20 Lead	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860
32 Lead	15kg	405	545	1033
	30kg	188	251	495
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



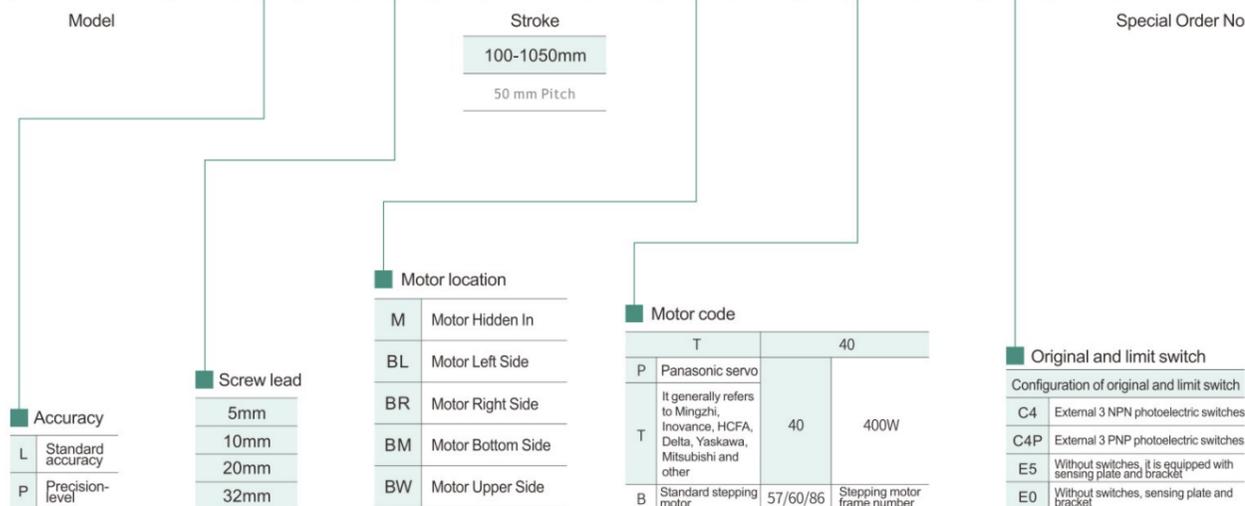
(Unit: mm)

MY	551
MP	552
MR	485

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

Ordering Method

KCH14 - L 10 - 300 - BC - P40 - C4 - D123



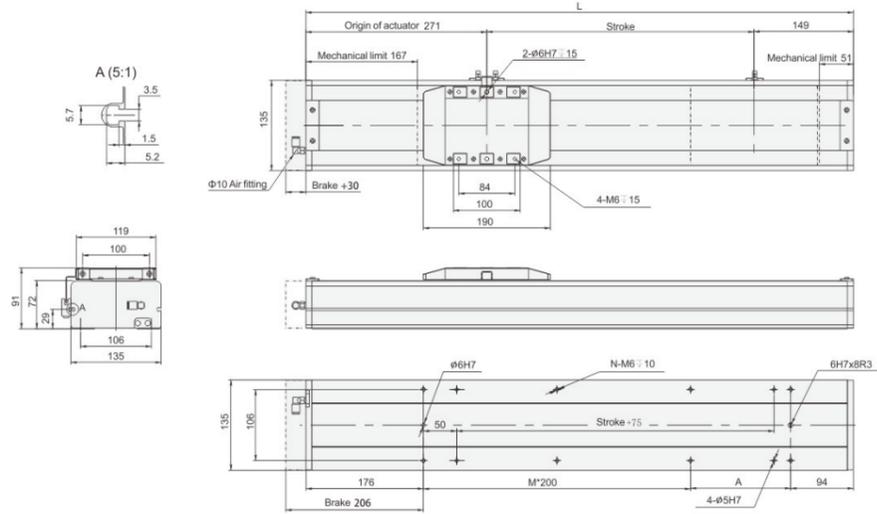
KCH14 1-axis

Clean Room Ball Screw Drive

KCH14 1-axis

M Motor Hidden In

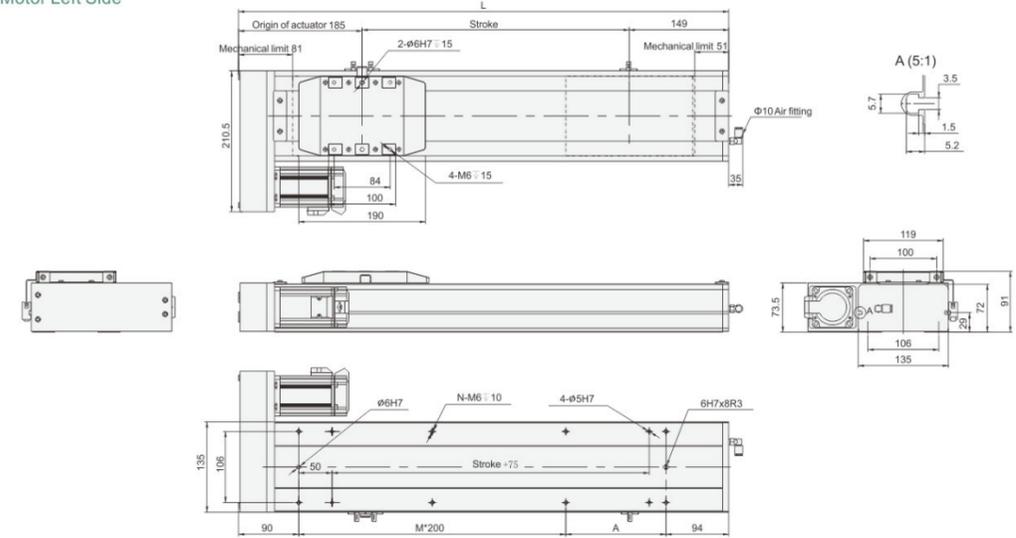
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470
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	12.1	12.7	13.3	13.9	14.5	15.1	15.7	16.3	16.9	17.5	18.1	18.7	19.3	19.9	20.5	21.1	21.7	22.3	22.9	23.5

BL Motor Left Side

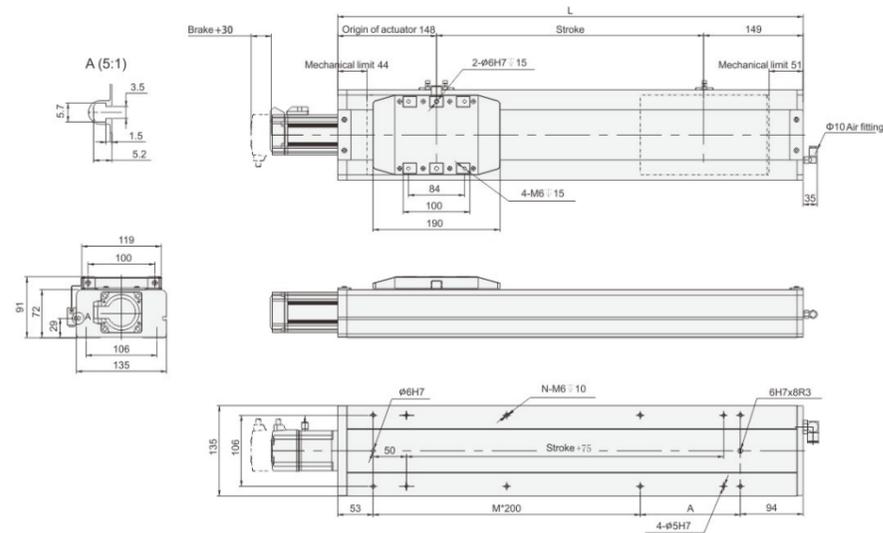
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
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	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

BC Motor Exposed

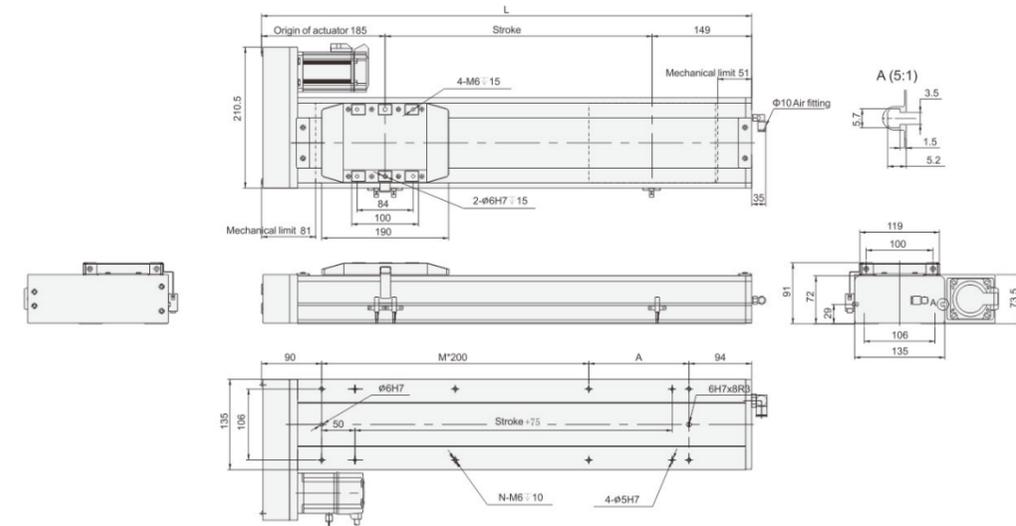
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347
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	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	18.9	19.5	20.1	20.7	21.3	21.9	22.5

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	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
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	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

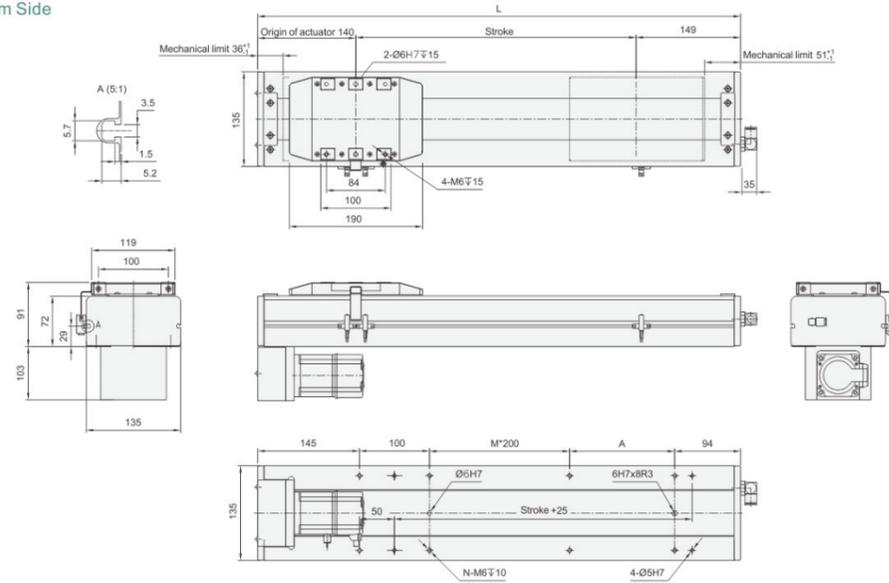
KCH14 1-axis

Clean Room

Ball Screw Drive

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	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339
A	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
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	11.52	12.14	12.76	13.38	14	14.62	15.24	15.86	16.48	17.1	17.72	18.34	18.96	19.58	20.2	20.82	21.44	22.06	22.68	23.3

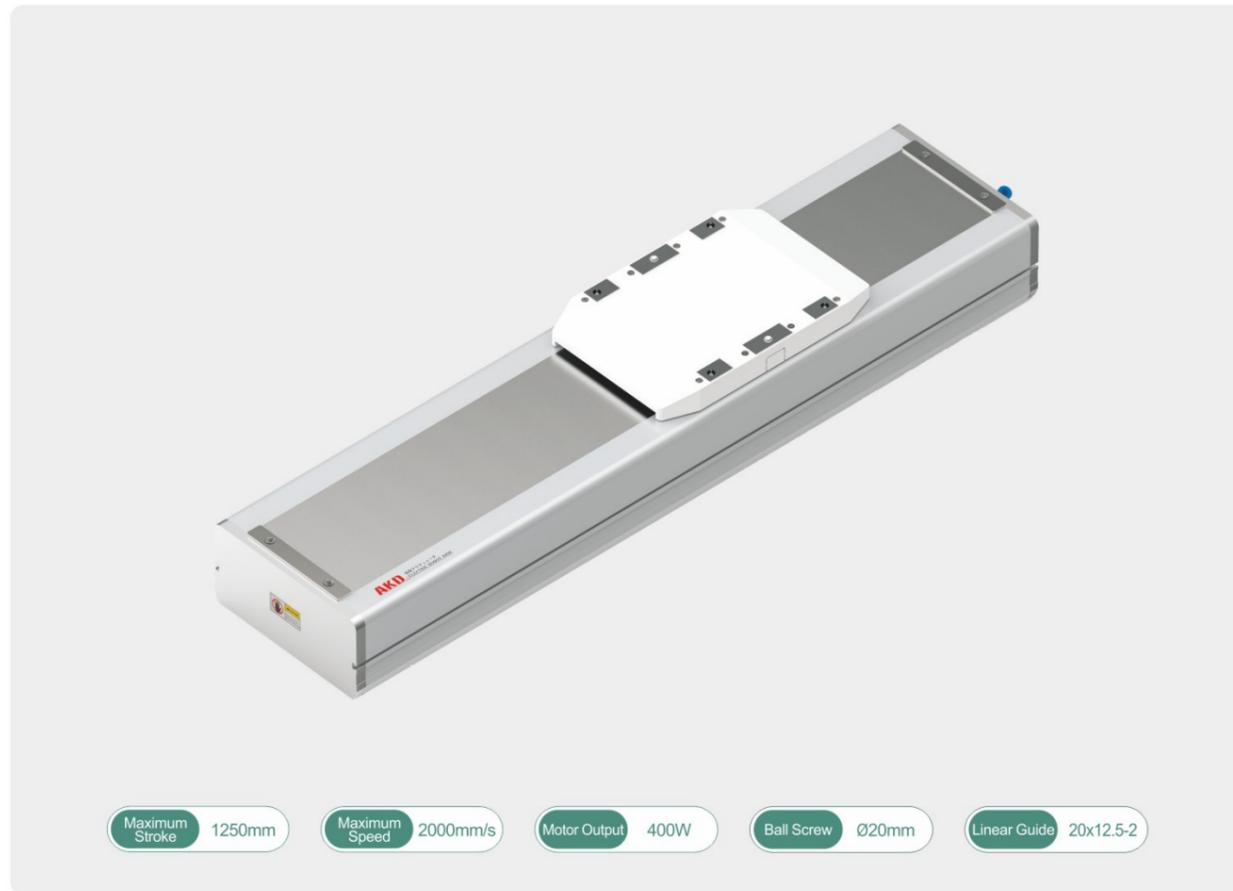
MEMO

KCH17 1-axis

Clean Room

Ball Screw Drive

KCH17 1-axis

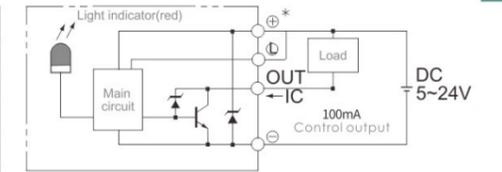


Maximum Stroke 1250mm Maximum Speed 2000mm/s Motor Output 400W Ball Screw Ø20mm Linear Guide 20x12.5-2

Specification

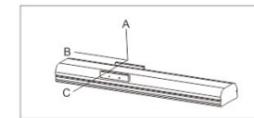
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	40	
	Maximum Speed (mm/s)	250	500	1000	2000	
	Maximum Payload	Horizontal (kg)	120	110	75	22
		Vertical (kg)	40	30	14	7
	Rated Thrust (N)	1388	694	347	174	
Parts	Stroke Pitch (mm)	100-1250mm/50 mm Pitch				
	AC Servo Motor Output (w)	400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

Sensor Layout



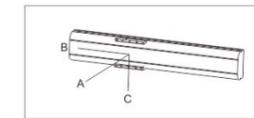
※ When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



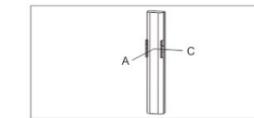
(Unit: mm)

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



(Unit: mm)

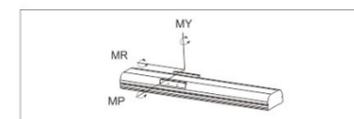
Wall Installation	A B C			
	5 Lead	75kg	377	322
	95kg	288	246	2333
	120kg	218	187	1850
10 Lead	60kg	408	368	2092
	80kg	296	266	1554
	110kg	202	182	1102
20 Lead	30kg	633	644	1961
	50kg	365	369	1143
	75kg	230	231	733
40 Lead	12kg	729	936	1417
	22kg	384	491	755
	-	-	-	-



(Unit: mm)

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

Static Loading Moment



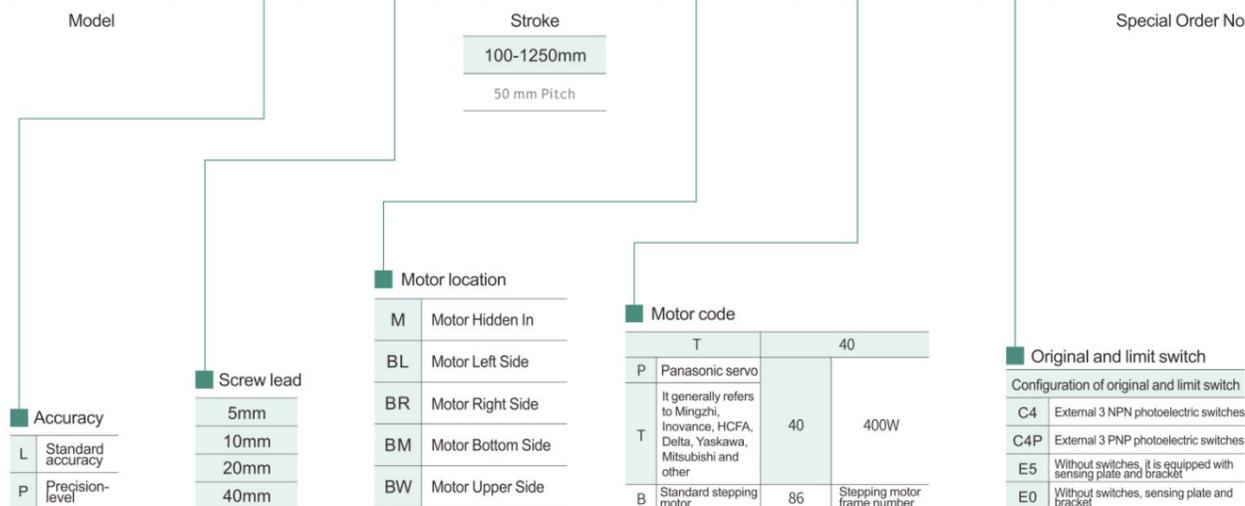
(Unit: mm)

MY	1032
MP	1034
MR	908

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

Ordering Method

KCH17 - L 10 - 300 - BC - P40 - C4 - D123



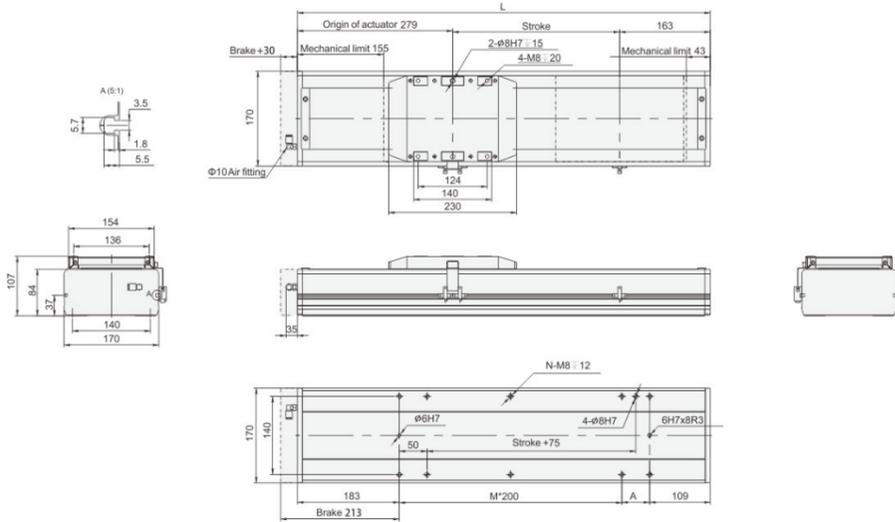
KCH17 1-axis

Clean Room Ball Screw Drive

KCH17 1-axis

M Motor Hidden In

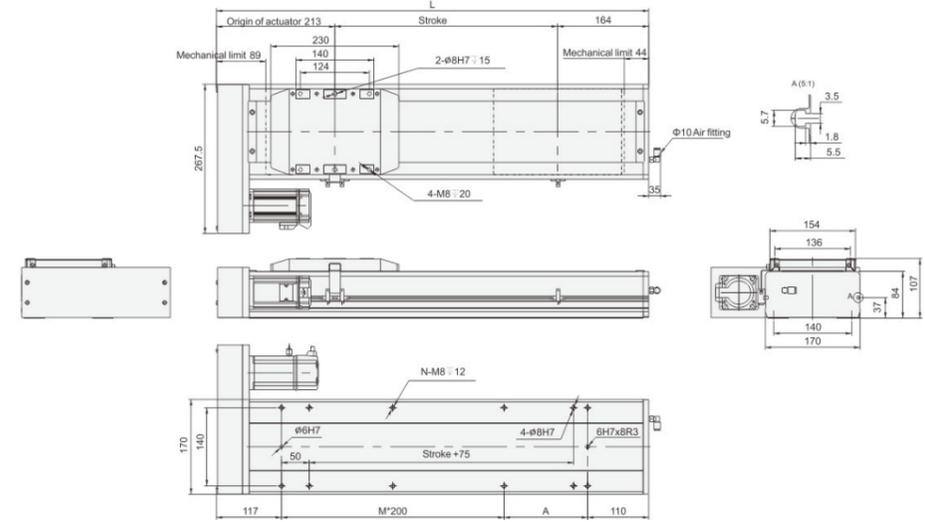
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592	1642	1692
A	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	6	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	13.24	14.04	14.84	15.65	16.45	17.26	18.06	18.86	19.67	20.47	21.28	22.08	22.88	23.69	24.49	25.29	26.1	26.9	27.7	28.51	29.31	30.12	30.92	31.72

BL Motor Left Side

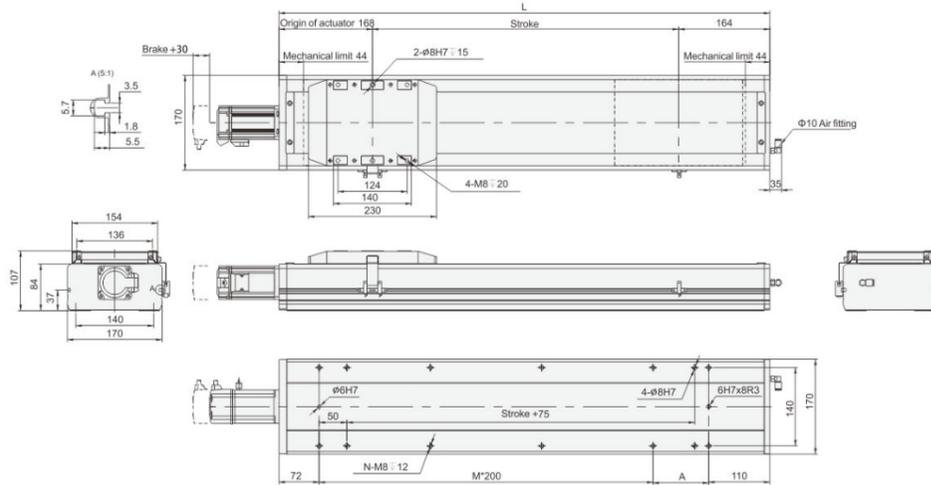
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
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	6	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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

BC Motor Exposed

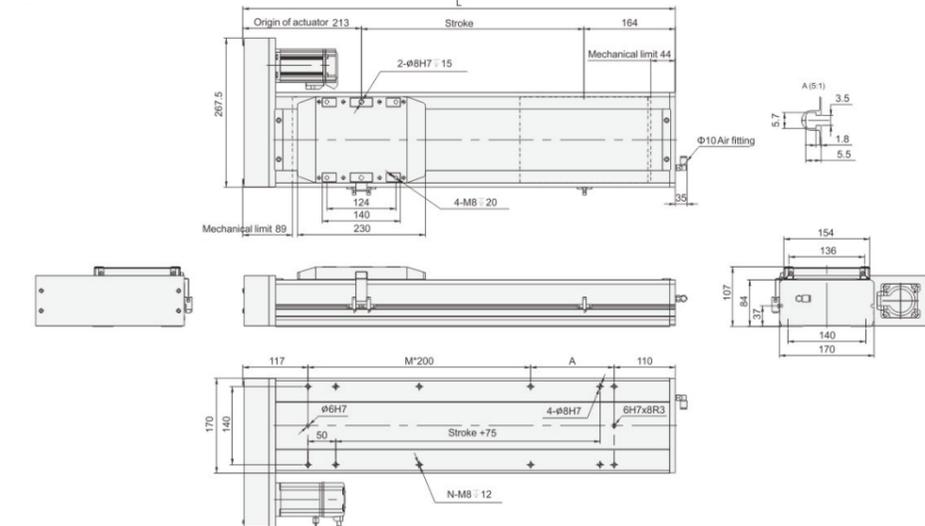
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
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
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	6	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	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55

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	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
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	6	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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

KCH5
KCH6
KCH10
KCH12
KCH14
KCH17
KCH22

KCH5
KCH6
KCH10
KCH12
KCH14
KCH17
KCH22

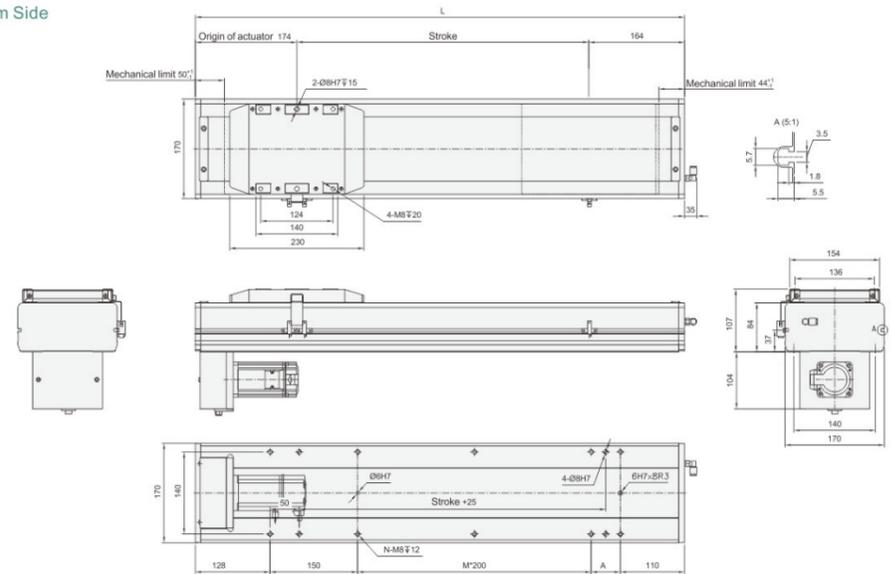
KCH17 1-axis

Clean Room

Ball Screw Drive

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	1100	1150	1200	1250
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588
A	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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

MEMO

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17**
- KCH22

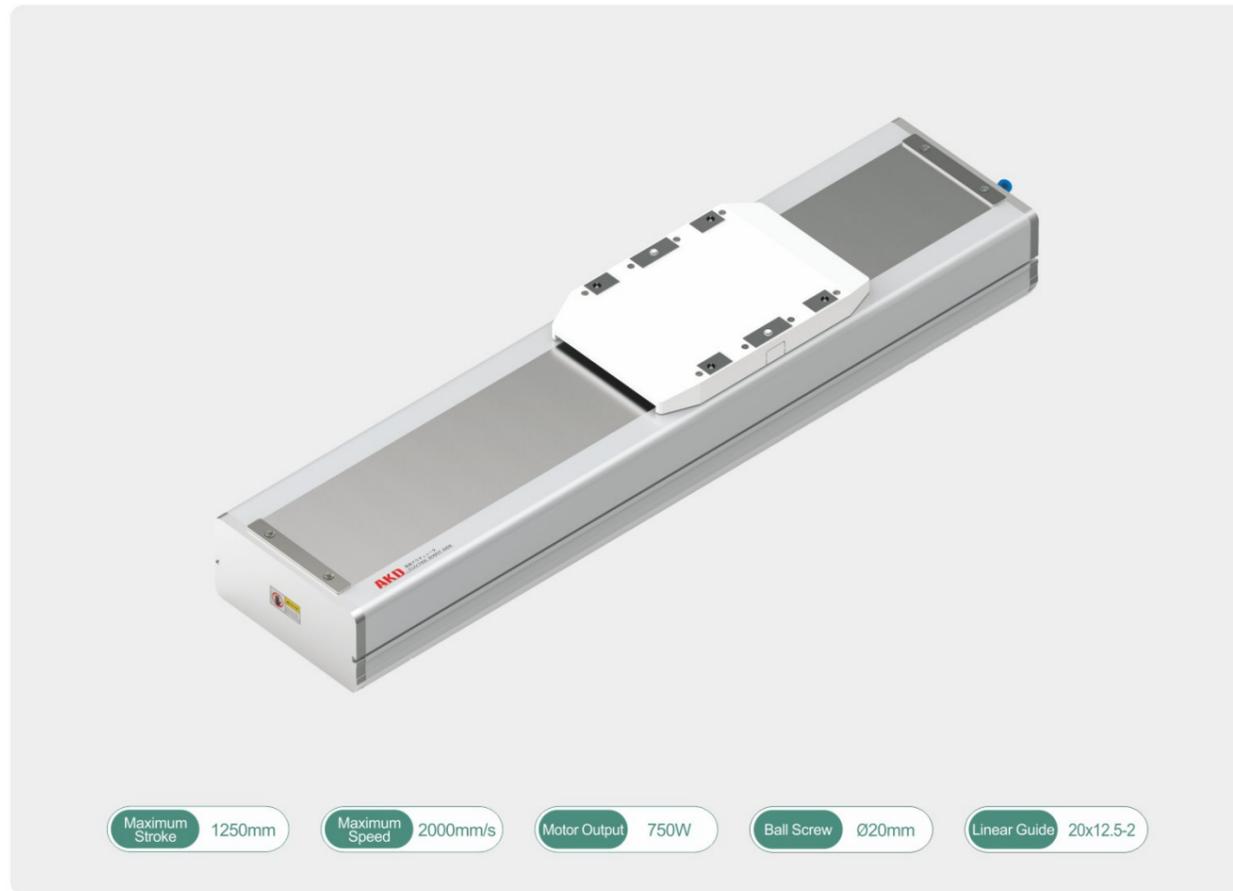
- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17**
- KCH22

KCH17 1-axis

Clean Room

Ball Screw Drive

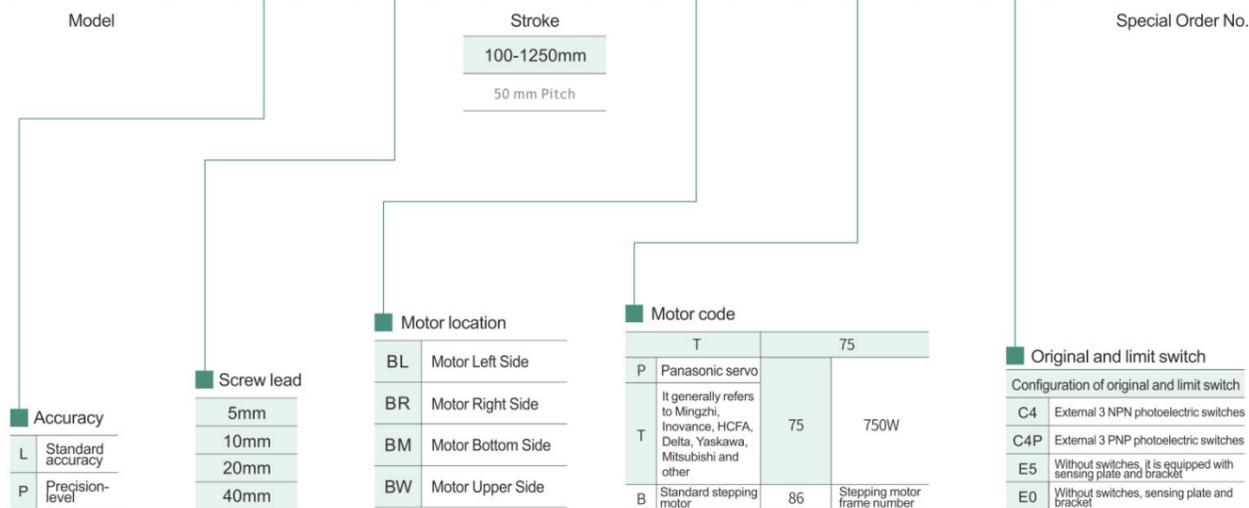
KCH17 1-axis



Maximum Stroke 1250mm Maximum Speed 2000mm/s Motor Output 750W Ball Screw Ø20mm Linear Guide 20x12.5-2

Ordering Method

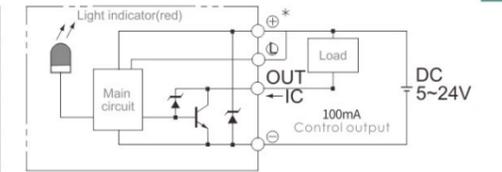
KCH17 - L 10 - 300 - BC - P75 - C4 - D123



Specification

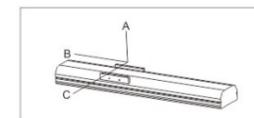
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	20	40	
	Maximum Speed (mm/s)	250	500	1000	2000	
	Maximum Payload	Horizontal (kg)	120	120	83	43
		Vertical (kg)	50	40	25	12
	Rated Thrust (N)	2563	1281	640	320	
Parts	Stroke Pitch (mm)	100-1250mm/50 mm Pitch				
	AC Servo Motor Output (w)	750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

Sensor Layout



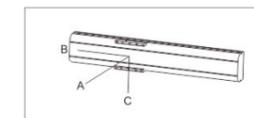
※ When the stroke is over 850mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation

Allowable Moment



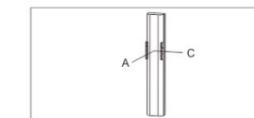
(Unit: mm)

Horizontal Installation		A	B	C
5 Lead	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1861	187	218
10 Lead	65kg	1911	338	373
	85kg	1445	248	276
	120kg	1000	164	182
20 Lead	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
40 Lead	15kg	1126	740	577
	22kg	755	491	384
	43kg	366	231	183



(Unit: mm)

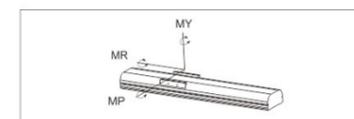
Wall Installation		A	B	C
5 Lead	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
10 Lead	60kg	408	368	2092
	80kg	296	266	1554
	120kg	182	164	1002
20 Lead	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
40 Lead	12kg	729	936	1417
	22kg	384	491	755
	43kg	183	231	366



(Unit: mm)

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

KCH17 1-axis

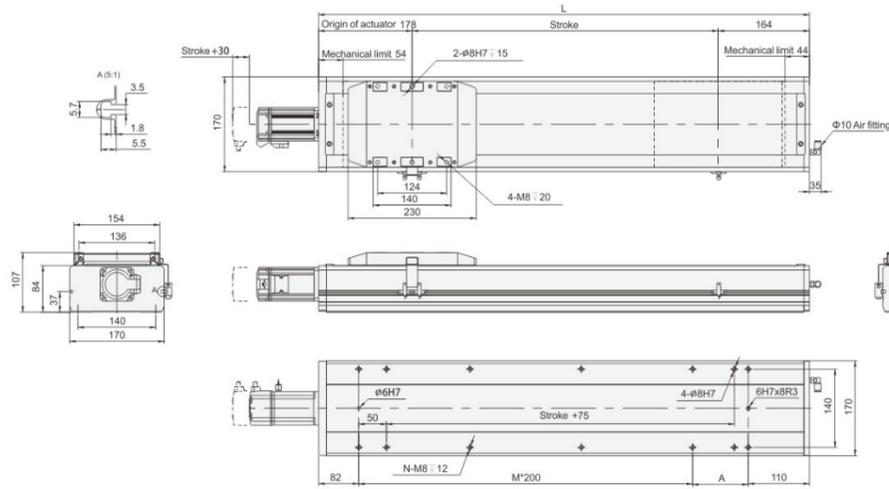
Clean Room

Ball Screw Drive

KCH17 1-axis

BC Motor Exposed

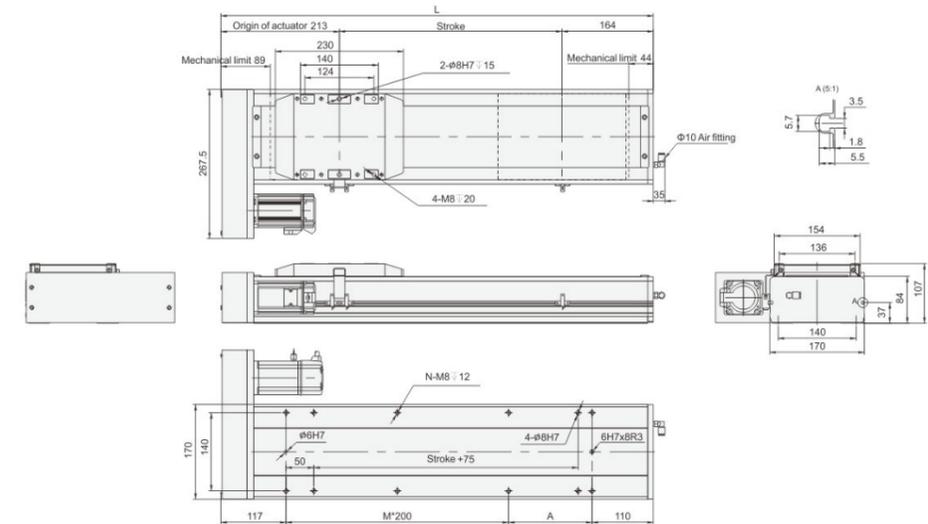
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	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	12.62	13.4	14.18	14.96	15.74	16.52	17.3	18.08	18.85	19.63	20.41	21.19	21.97	22.75	23.53	24.31	25.09	25.87	26.65	27.43	28.21	28.99	29.77	30.55

BL Motor Left Side

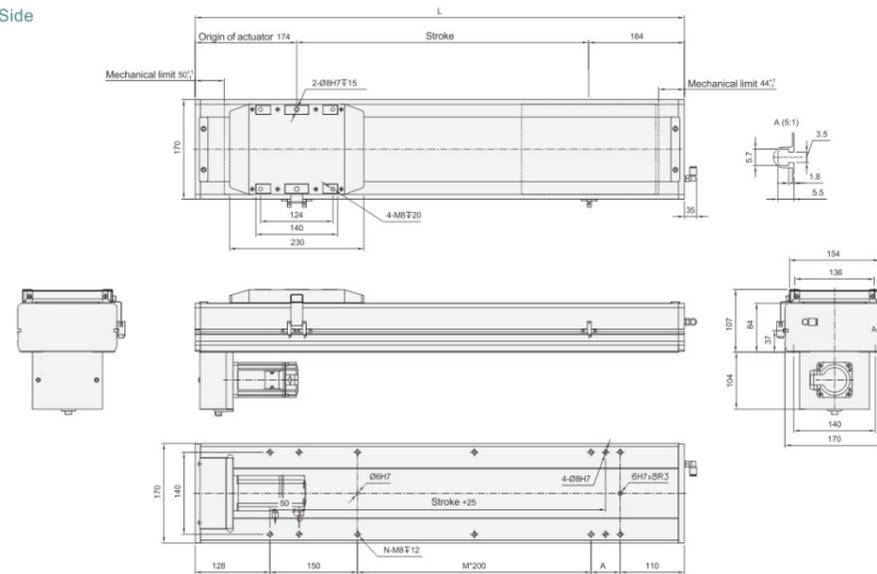
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

BM Motor Bottom Side

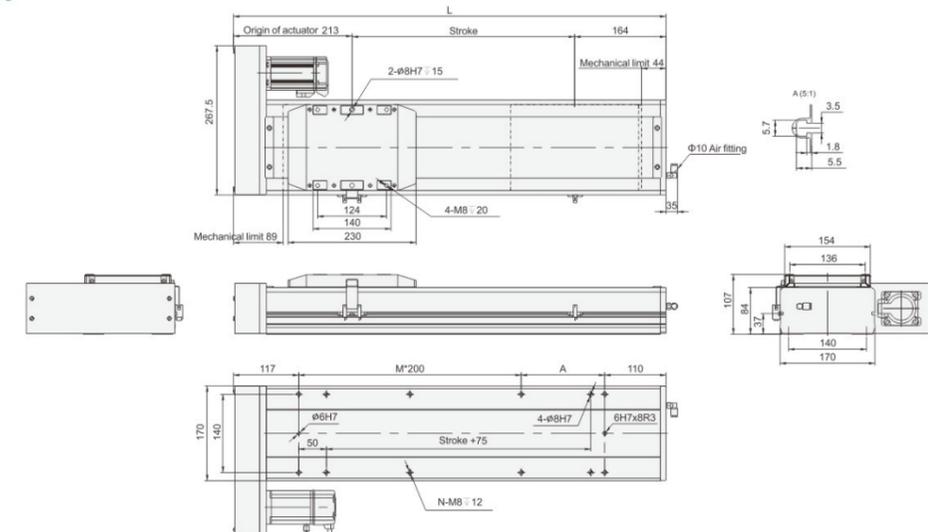
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588
A	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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

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	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
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	13.39	14.17	14.96	15.74	16.53	17.31	18.1	18.88	19.67	20.45	21.24	22.02	22.81	23.59	24.38	25.17	25.95	26.74	27.52	28.31	29.09	29.88	30.66	31.45

KCH22 1-axis

Clean Room

Ball Screw Drive

KCH22 1-axis

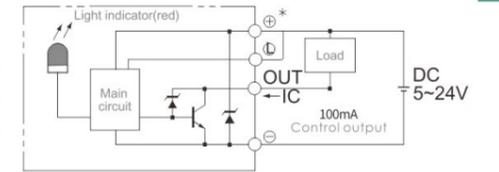


Maximum Stroke 1500mm Maximum Speed 2000mm/s Motor Output 750W Ball Screw Ø25mm Linear Guide 23x18-2

Specification

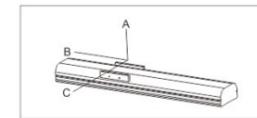
Spec	Repeatability (mm)	±0.01				
	Ball Screw Lead (mm)	5	10	25	40	
	Maximum Speed (mm/s)	250	500	1250	2000	
	Maximum Payload	Horizontal (kg)	150	150	105	43
		Vertical (kg)	55	45	20	12
	Rated Thrust (N)	2565	1281	640	320	
Parts	Stroke Pitch (mm)	100-1500mm/50 mm Pitch				
	AC Servo Motor Output (w)	750				
	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



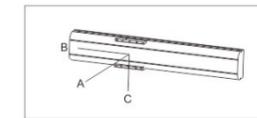
※ When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to slow down the working speed under this circumstances.
 ※ Acceleration and deceleration value is set 0.2 second.
 ※ When the DmN value of the screw exceeds 50000, please contact the manufacturer for technical confirmation.

Allowable Moment



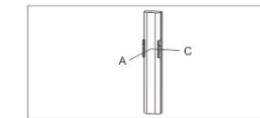
(Unit: mm)

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



(Unit: mm)

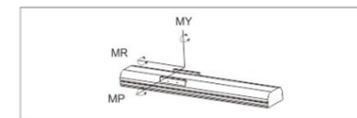
Wall Installation	Load	Dimensions (mm)		
		A	B	C
5 Lead	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
10 Lead	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
25 Lead	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
40 Lead	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412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



(Unit: mm)

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

Static Loading Moment



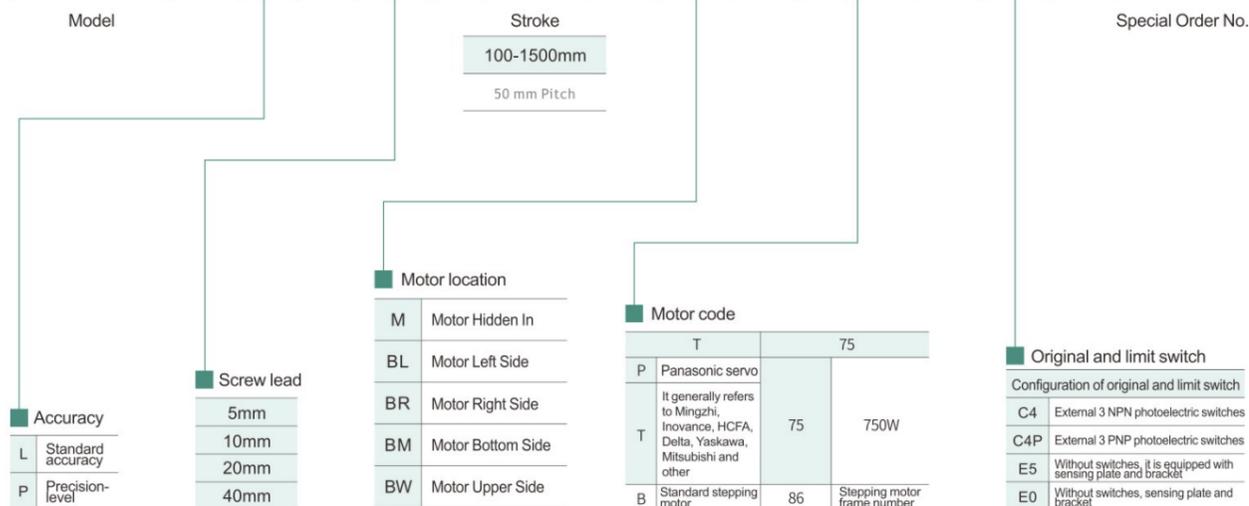
(Unit: mm)

MY	2052
MP	2052
MR	1810

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

Ordering Method

KCH22 - L 10 - 300 - BC - P75 - C4 - D123



KCH5
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KCH22

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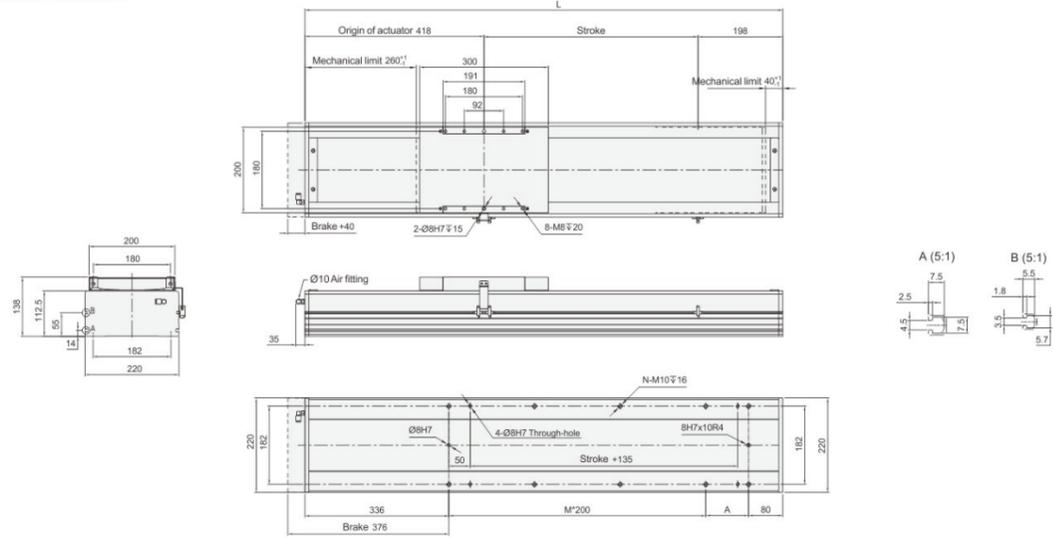
KCH22 1-axis

Clean Room Ball Screw Drive

KCH22 1-axis

M Motor Hidden In

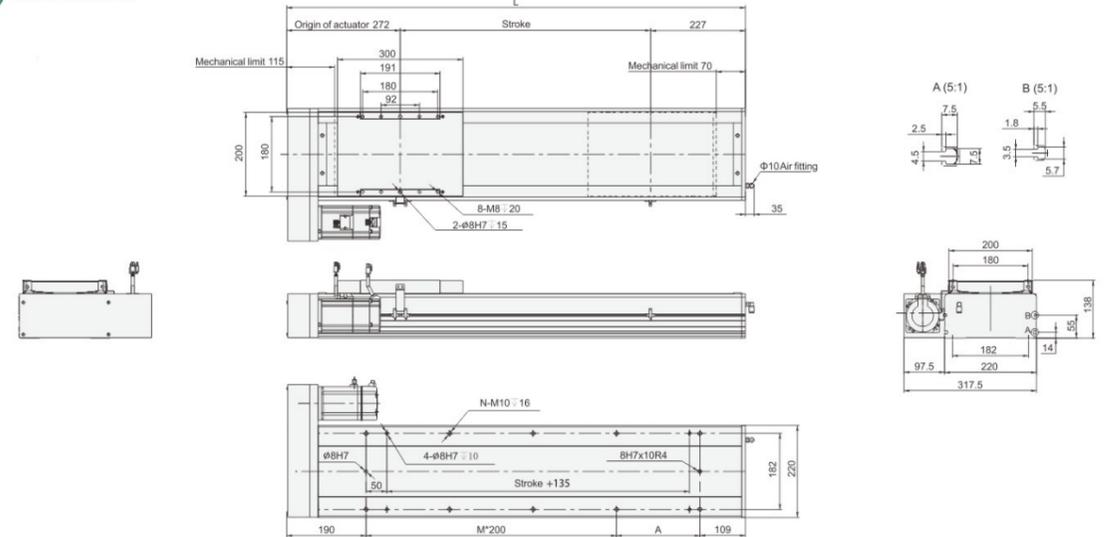
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966	2016	2066	2116
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	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	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	31.22	32.69	34.16	35.63	37.1	38.57	40.04	41.51	42.98	44.45	45.92	47.39	48.86	50.33	51.8	53.27	54.74	56.21	57.68	59.15	60.62	62.09	63.56	65.03	66.5	67.97	69.44	70.91	72.38

BL Motor Left Side

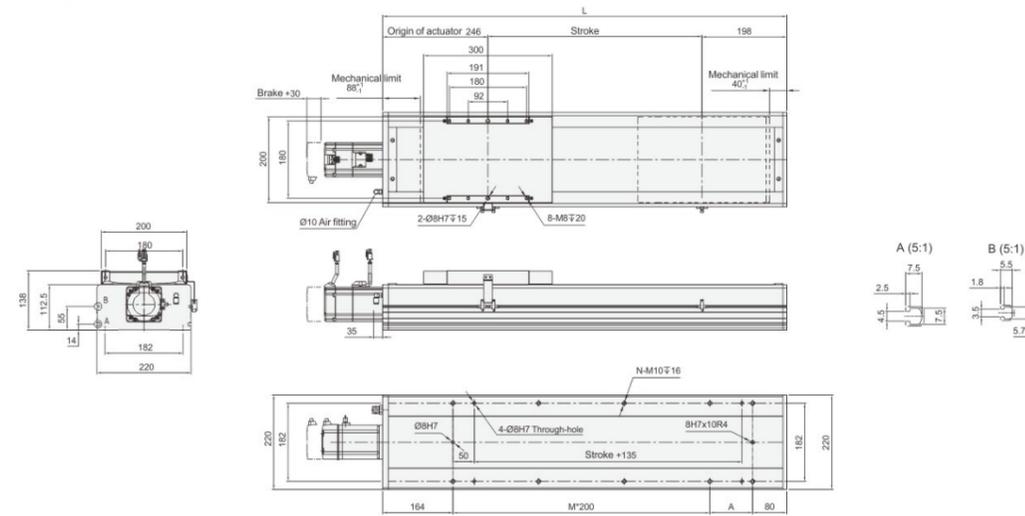
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	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	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	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	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	66.56	68.02	69.48	70.94

BC Motor Exposed

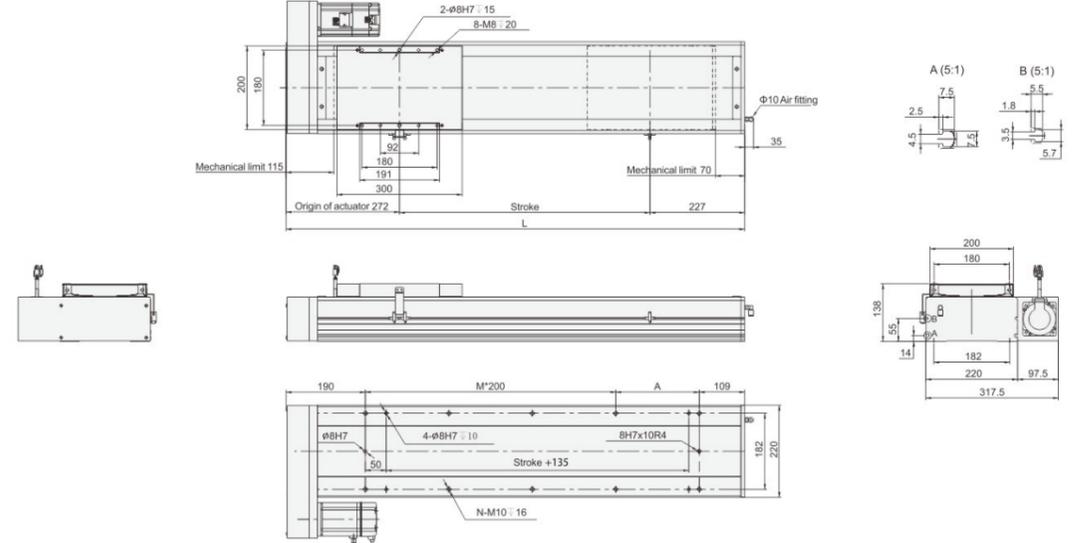
(Unit: mm)



stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594	1644	1694	1744	1794	1844	1894	1944
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	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	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	28.96	30.42	31.88	33.34	34.8	36.26	37.72	39.18	40.64	42.1	43.56	45.02	46.48	47.94	49.4	50.86	52.32	53.78	55.24	56.7	58.16	59.62	61.08	62.54	64	65.46	66.92	68.38	69.84

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	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	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	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	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	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	66.56	68.02	69.48	70.94

- KCH5
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- KCH10
- KCH12
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- KCH17
- KCH22

- KCH5
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- KCH22

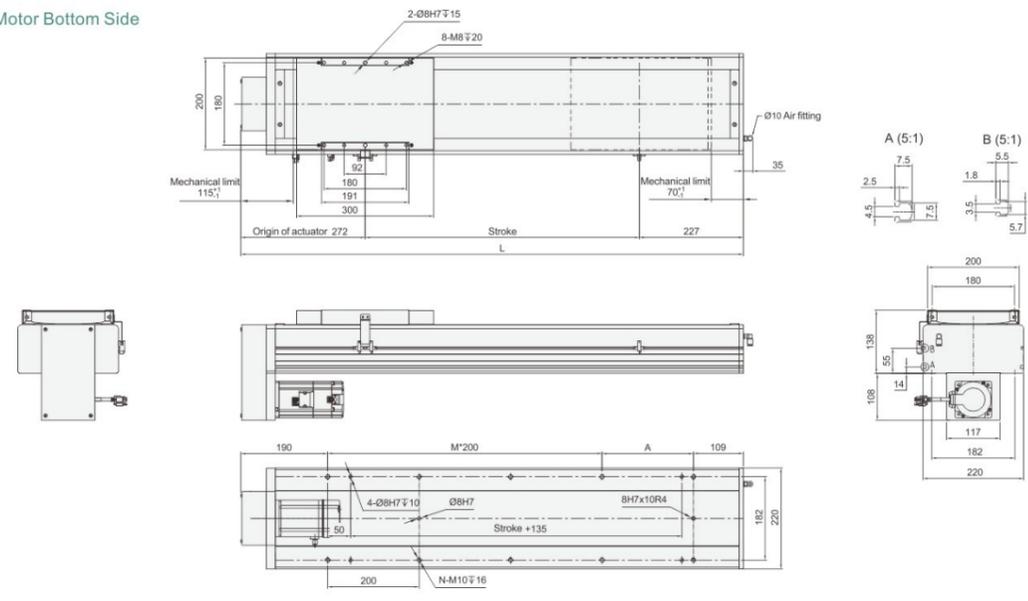
KCH22 1-axis

Clean Room

Ball Screw Drive

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	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	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	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64	65.1	66.56	68.02	69.48	70.94

MEMO

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22

- KCH5
- KCH6
- KCH10
- KCH12
- KCH14
- KCH17
- KCH22