

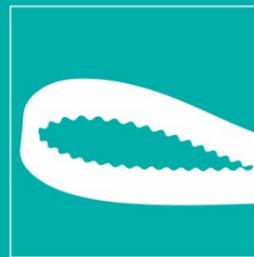
KHSD Series



CONTENTS

Standard/Belt Actuator

Belt Type Driven



Long Stroke, High Speed

Belt drive module can easily achieve long travel conditions and large range of motion. Aluminum extruded structure with slide rails, belt and pulley design, which saves you cost and time in the assembly stage. Maximum stroke is up to 4000mm. Line speed up to 2500mm/s to improve the productivity of the machine.

KHSD30



Width: 30mm
Max.stroke: 2500mm...381
Max.payload: 3kg

KHSD40



Width: 40mm
Max.stroke: 4000mm...385
Max.payload: 3/10kg

KHSD45



Width: 45mm
Max.stroke: 4000mm...391
Max.payload: 3/15kg

KHSD50



Width: 50mm
Max.stroke: 4000mm...397
Max.payload: 25kg

KHSD60



Width: 60mm
Max.stroke: 4000mm...401
Max.payload: 35/40kg

KHSD80



Width: 80mm
Max.stroke: 3600mm...407
Max.payload: 60kg

KHSD10E



Width: 100mm (Double Belt Slide Available)
Max.stroke: 4000mm...411
Max.payload: 40kg

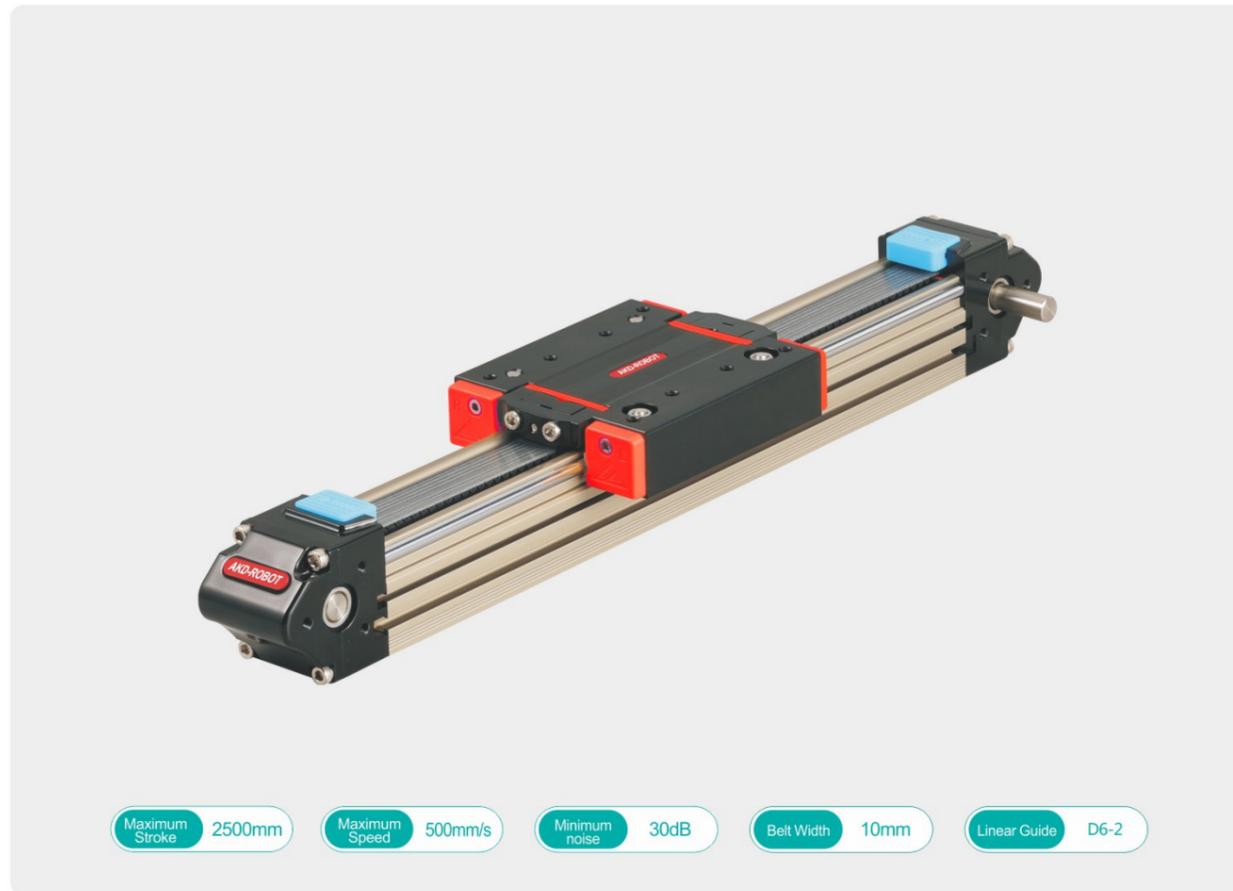
KHSD12E



Width: 120mm (Double Belt Slide Available)
Max.stroke: 4000mm...415
Max.payload: 80kg

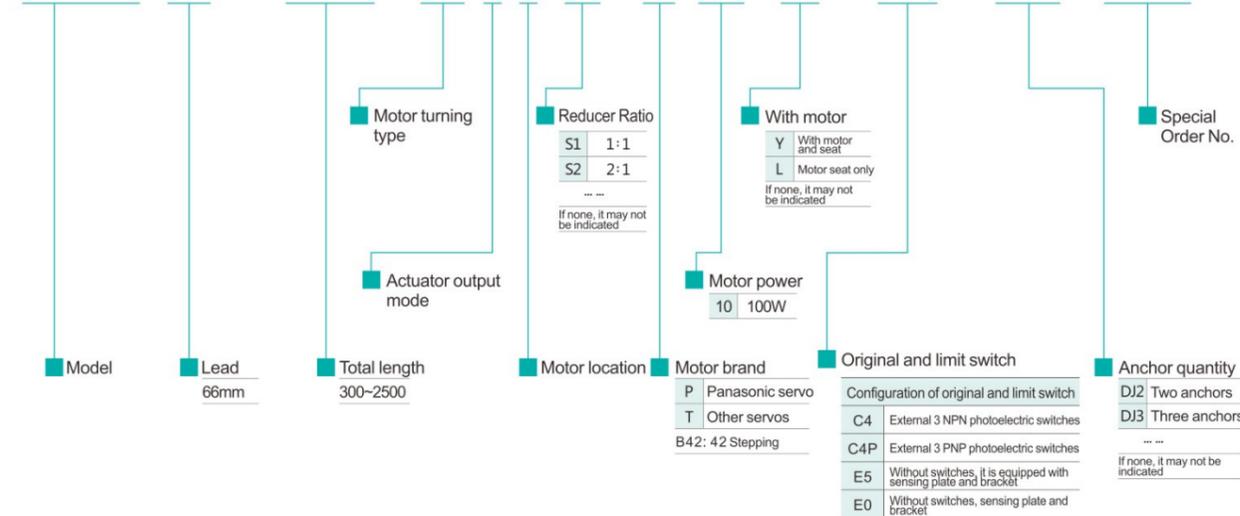
KHSD30

KHSD30



Ordering Method

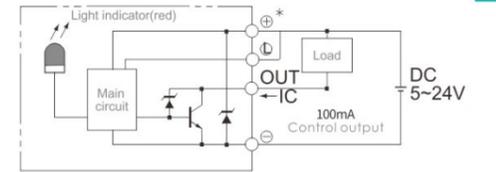
KHSD30 66 - 2200 - UP 7 A-S1 - P 10 - Y - E0 - DJ2 - D123



Specification

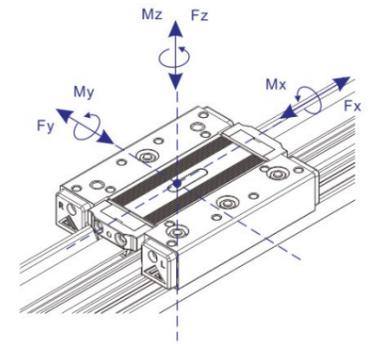
Spec	Repeatability (mm)	±0.05
	Lead (mm)	66
	Maximum Speed (mm/s)	500
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 3 Vertical (kg) /
Parts	Input Torque (N.m)	1
	Length (mm)	2.5 meters (other lengths custom-made)
	Width (mm)	30
	Belt (mm)	PU-3M-10 (wire)
	Model	HTD3M-10MM
Electrical Machinery	Stepping: 42 Servos: 100W	

Sensor Layout



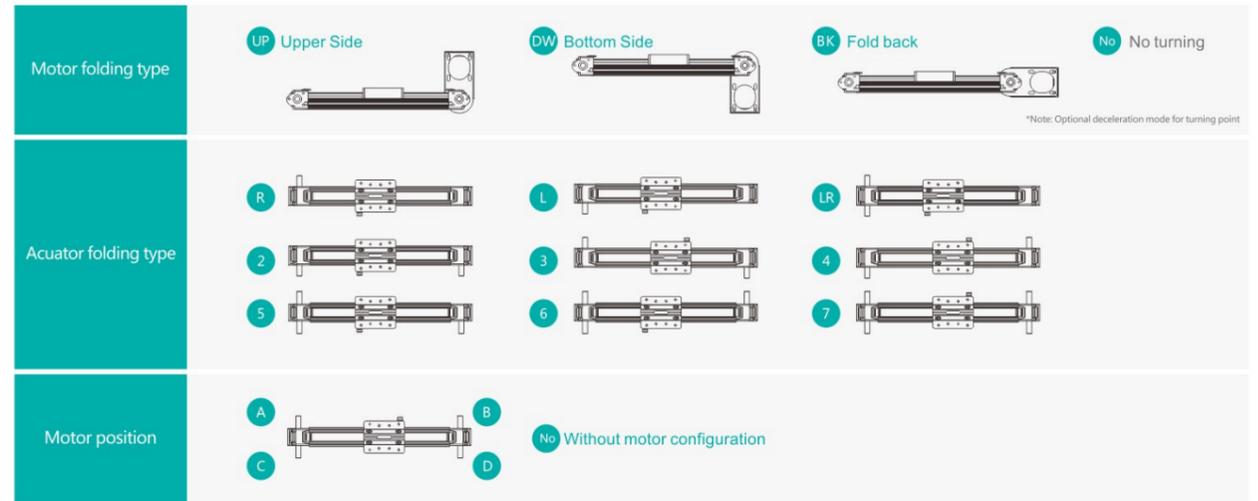
*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Nominal load of actuator	Model	KHSD30
	Fx max(N)	89
	Fy max(N)	248
	Fz max(N)	200
	Mx max(N.M)	8.8
	My max(N.M)	9.6
Mz max(N.M)	4.2	



$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

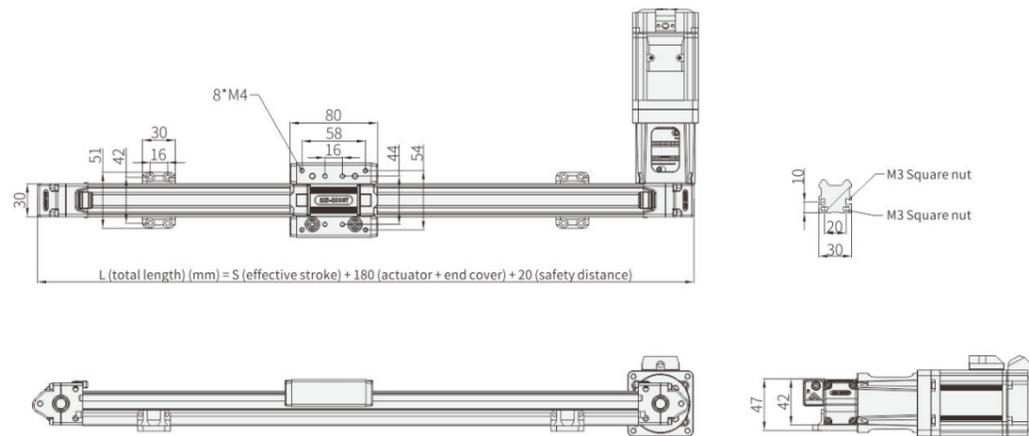


- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

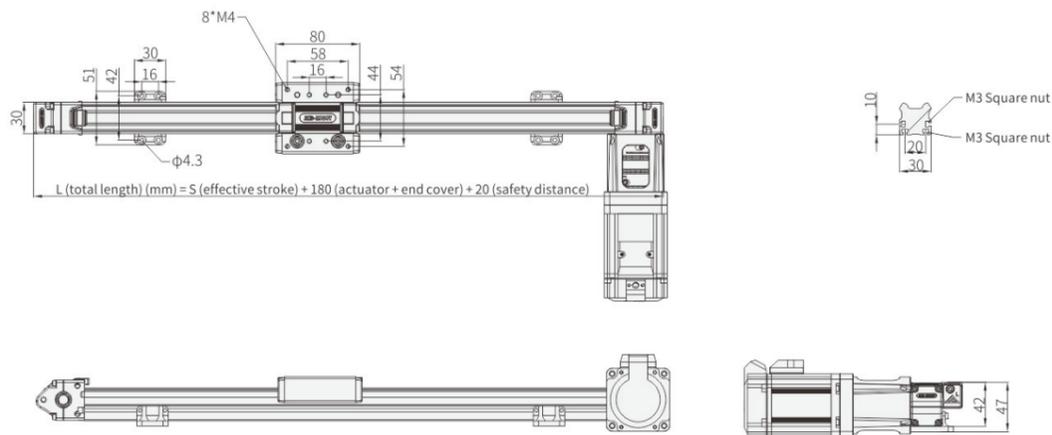
KHSD30

Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
KG	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8

Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
KG	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8

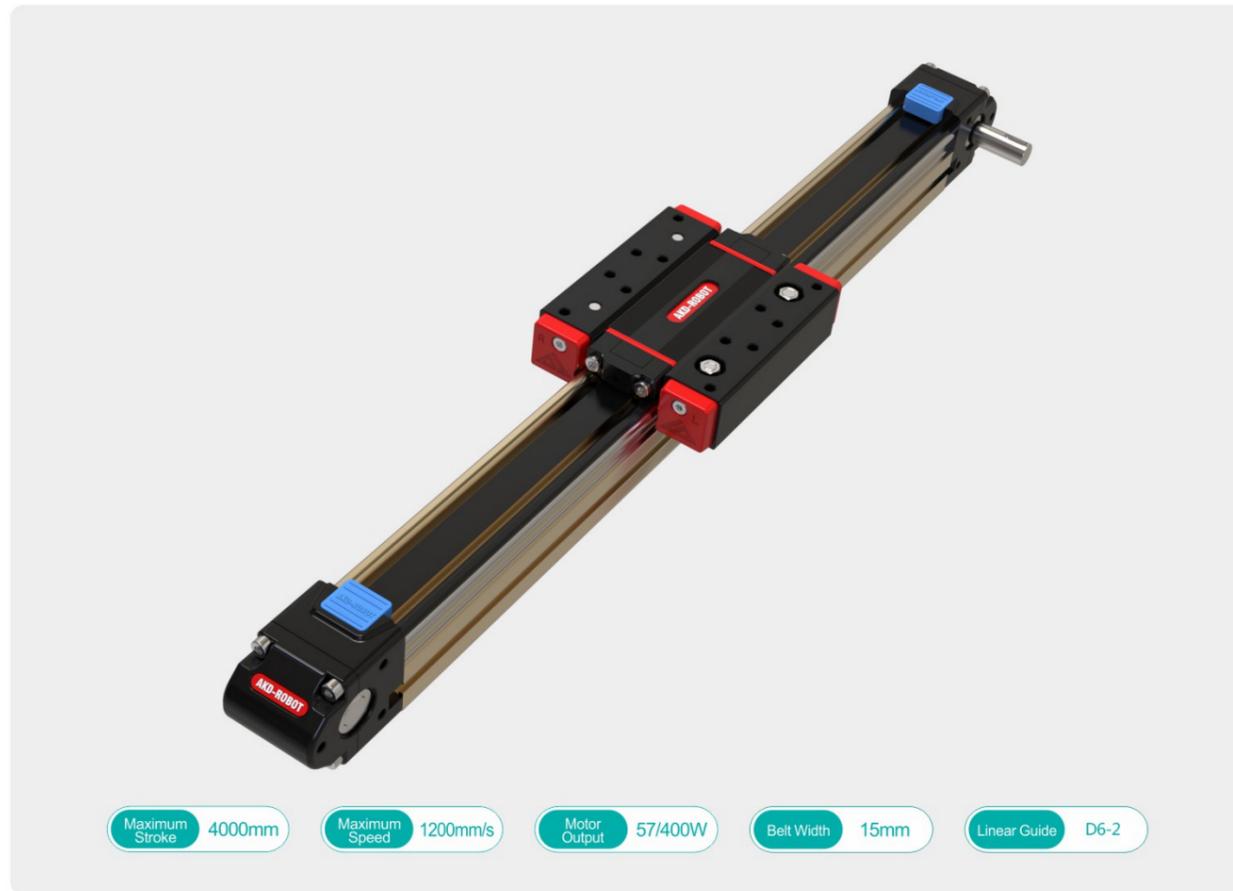
MEMO

- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

KHSD40

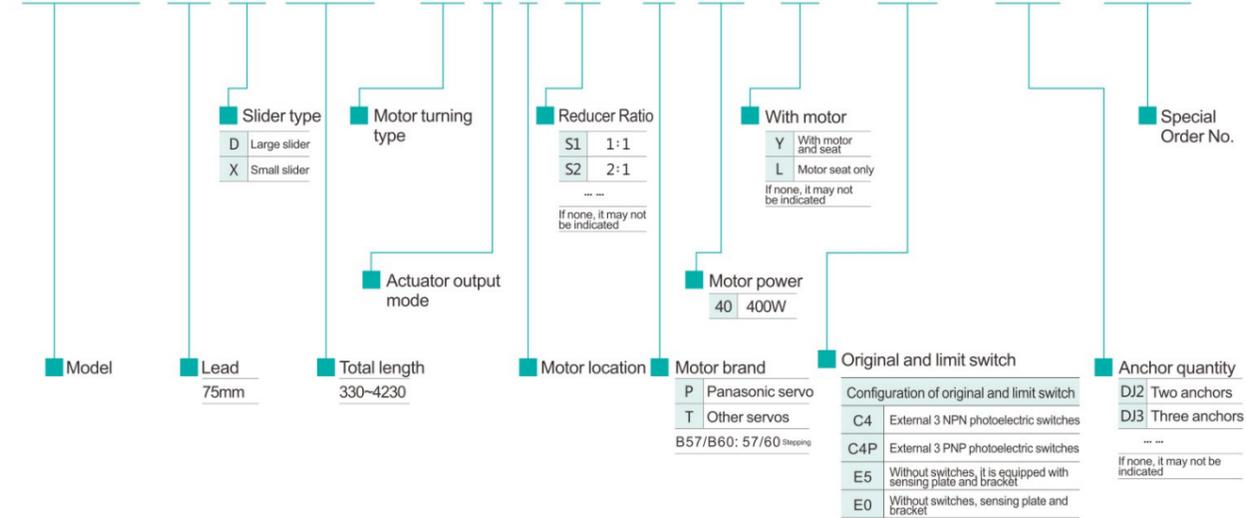
KHSD40X



- Maximum Stroke: 4000mm
- Maximum Speed: 1200mm/s
- Motor Output: 57/400W
- Belt Width: 15mm
- Linear Guide: D6-2

Ordering Method

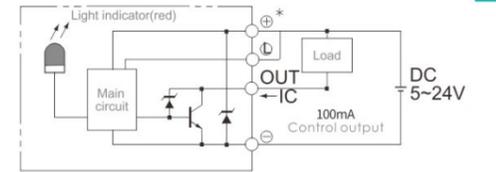
KHSD40 75 X-4230 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	75
	Maximum Speed (mm/s)	1200
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg): 3 Vertical (kg): 1
Parts	Input Torque (N.m)	3
	Length (mm)	4 meters (other lengths custom-made)
	Width (mm)	40
	Belt (mm)	PU-3M-15(wire)
	Model	HTD3M-15MM
	Electrical Machinery	Stepping: 57/60 Servos: 200W/400W

Sensor Layout

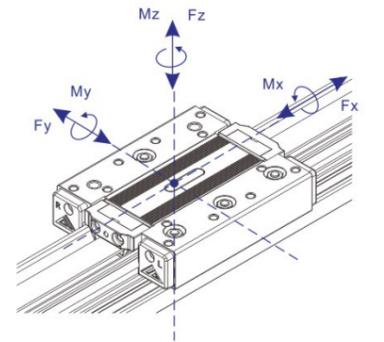


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

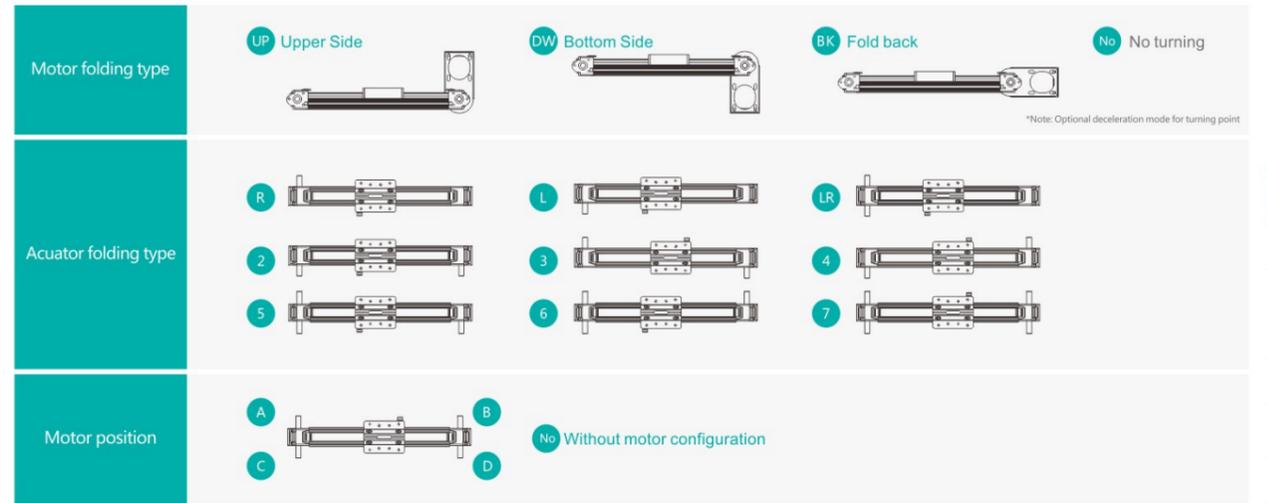
	Distance	A	B	C
	100mm	2kg	1.3kg	1.8kg
	150mm	1.5kg	0.5kg	0.8kg
	200mm	/	/	/

Nominal load of actuator	Model	KHSD40X
	Fx max(N)	100
	Fy max(N)	370
	Fz max(N)	429
	Mx max(N.M)	8.1
	My max(N.M)	9.6
Mz max(N.M)	4.2	



$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
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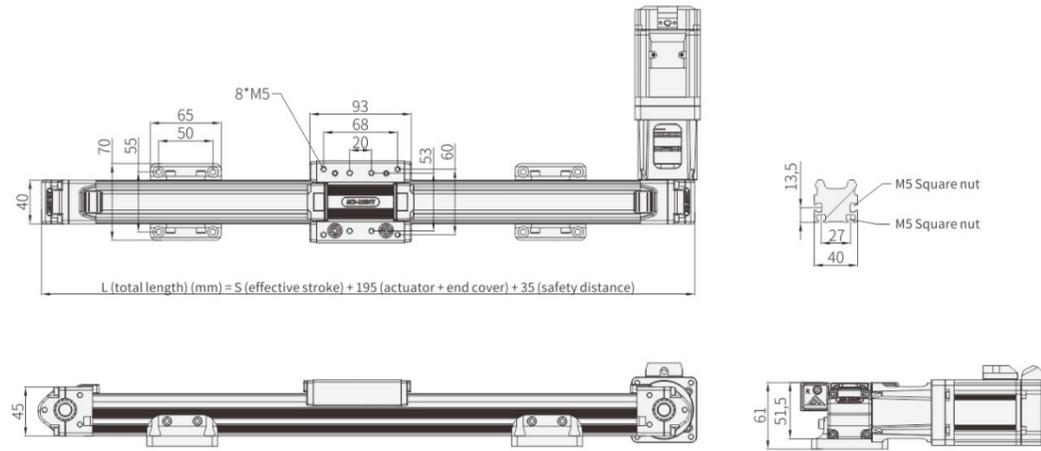


- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

KHSD40X

KHSD40D

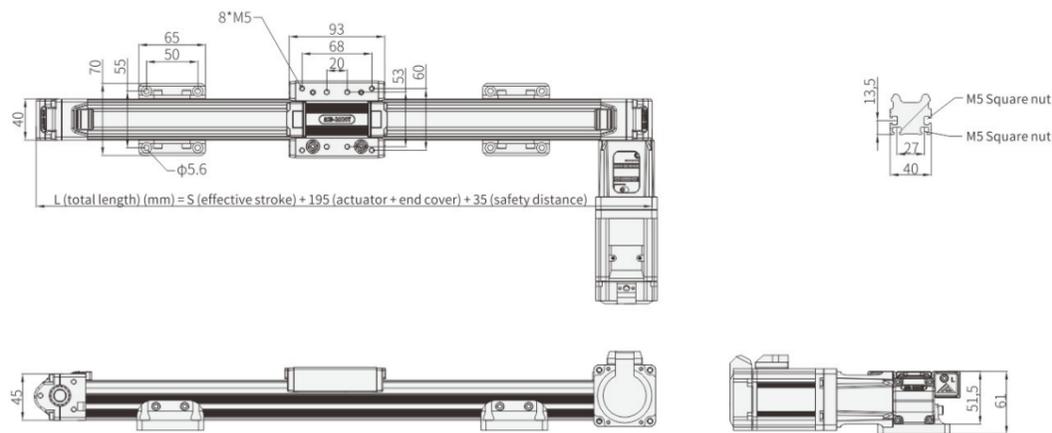
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

Motor fold right



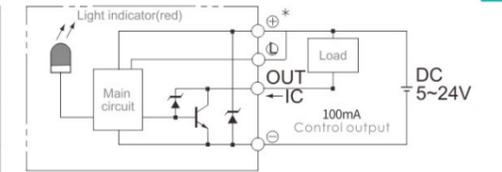
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

Specification

Repeatability (mm)	±0.05	
Lead (mm)	75	
Maximum Speed (mm/s)	1200	
Straightness	±0.05/300mm	
Maximum Payload	Horizontal (kg)	10
	Vertical (kg)	3
Input Torque (N.m)	3	
Length (mm)	4 meters (other lengths custom-made)	
Width (mm)	40	
Belt (mm)	PU-3M-15(wire)	
Model	HTD3M-15MM	
Electrical Machinery	Stepping: 57/60 Servos: 200W/400W	

Sensor Layout

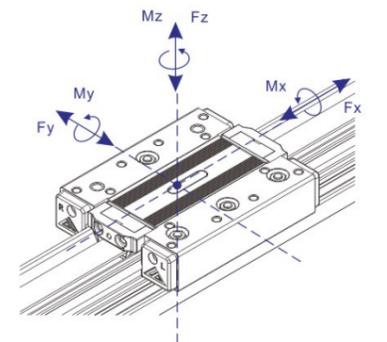


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

Distance	A	B	C
100mm	6kg	3.5kg	4kg
150mm	2.5kg	1.6kg	2kg
200mm	0.8kg	0.6kg	1.2kg

Nominal load of actuator	Model	KHSD40D
	Fx max(N)	170
	Fy max(N)	655
	Fz max(N)	762
	Mx max(N.M)	14.5
	My max(N.M)	22.8
Mz max(N.M)	9.8	



$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

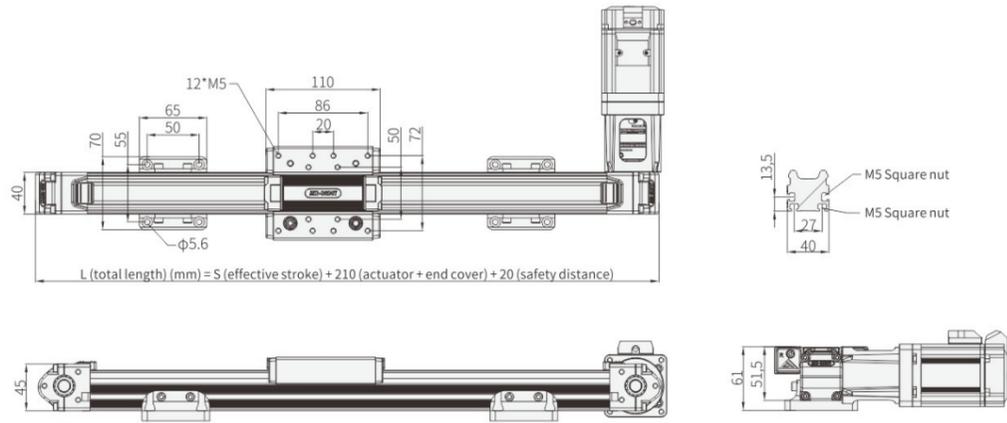
*The data represented by the torque table represents the center of gravity
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Motor folding type	<p>UP Upper Side</p>	<p>DW Bottom Side</p>	<p>BK Fold back</p>	<p>No No turning</p>
Actuator folding type	<p>R</p>	<p>L</p>	<p>LR</p>	
Motor position	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>

*Note: Optional deceleration mode for turning point

KHSD40D

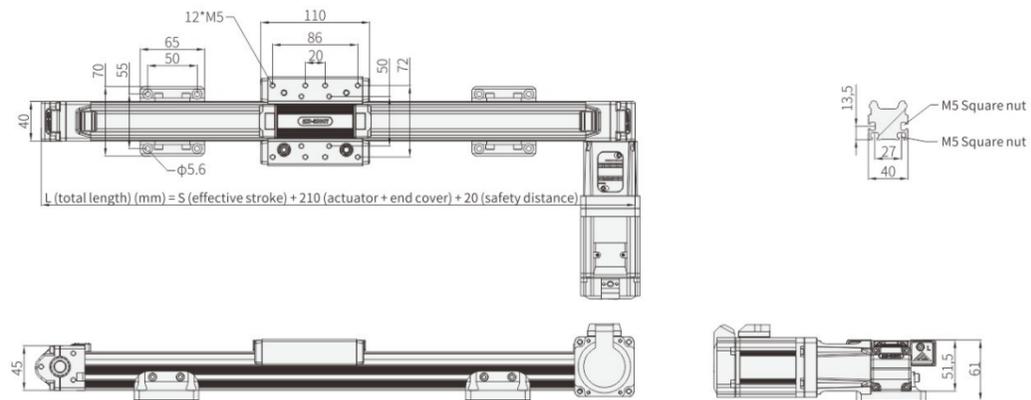
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

Motor fold right



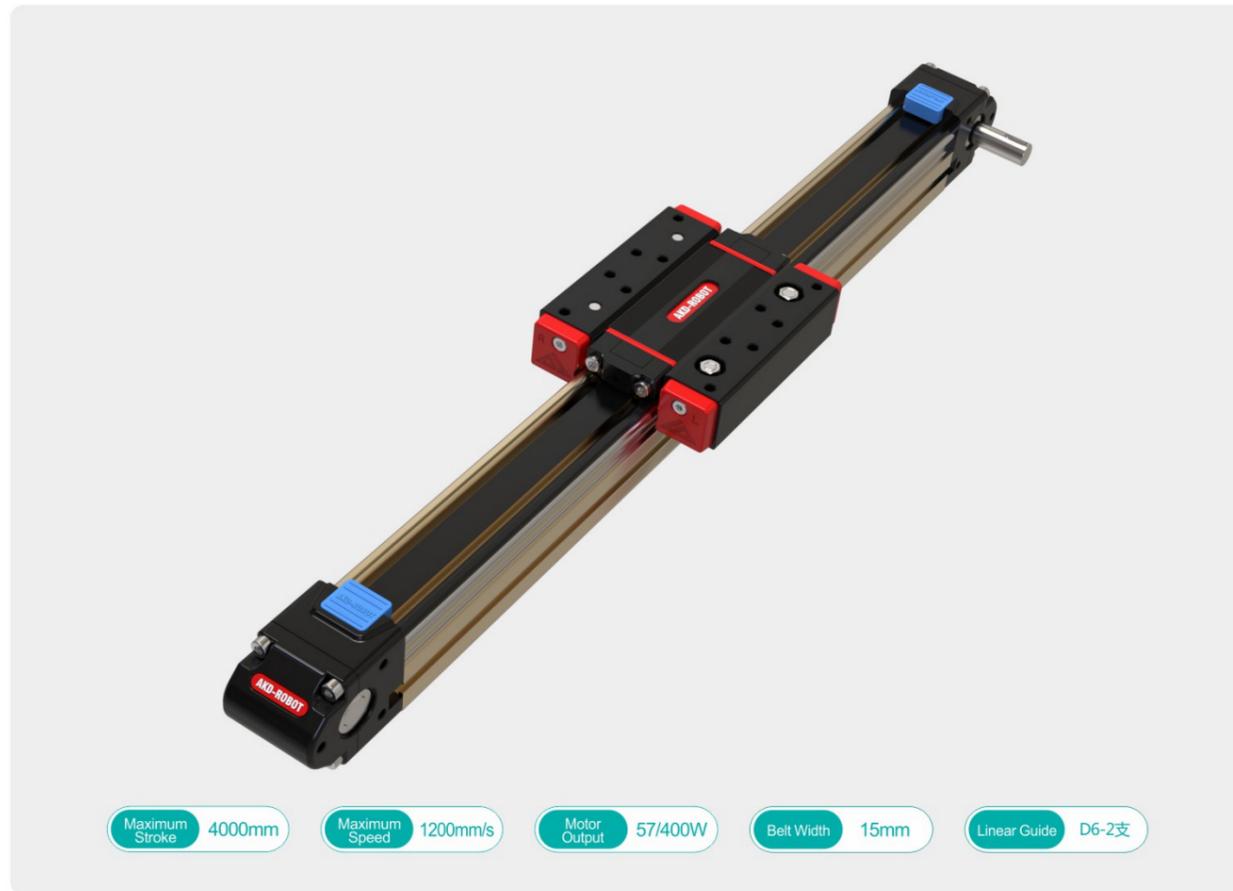
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

MEMO

KHSD45

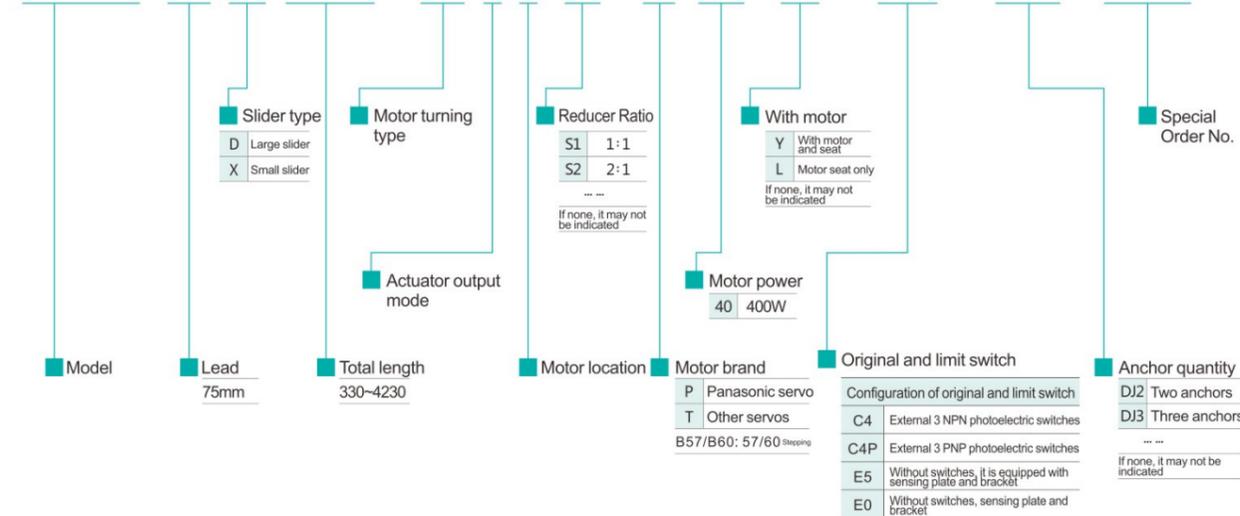
KHSD45X



- Maximum Stroke 4000mm
- Maximum Speed 1200mm/s
- Motor Output 57/400W
- Belt Width 15mm
- Linear Guide D6-2支

Ordering Method

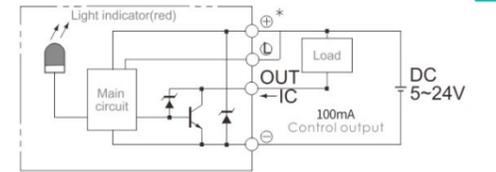
KHSD45 75 X-4230 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	75
	Maximum Speed (mm/s)	1200
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 3 Vertical (kg) 1
Parts	Input Torque (N.m)	3
	Length (mm)	4 meters (other lengths custom-made)
	Width (mm)	45
	Belt (mm)	PU-3M-15(wire)
	Model	HTD3M-15MM
Electrical Machinery	Stepping: 57/60 Servos: 200W/400W	

Sensor Layout

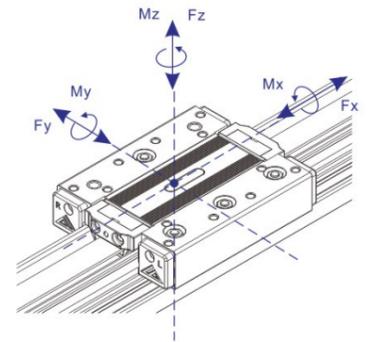


*Motor acceleration and deceleration set to 0.4 second
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Allowable Moment

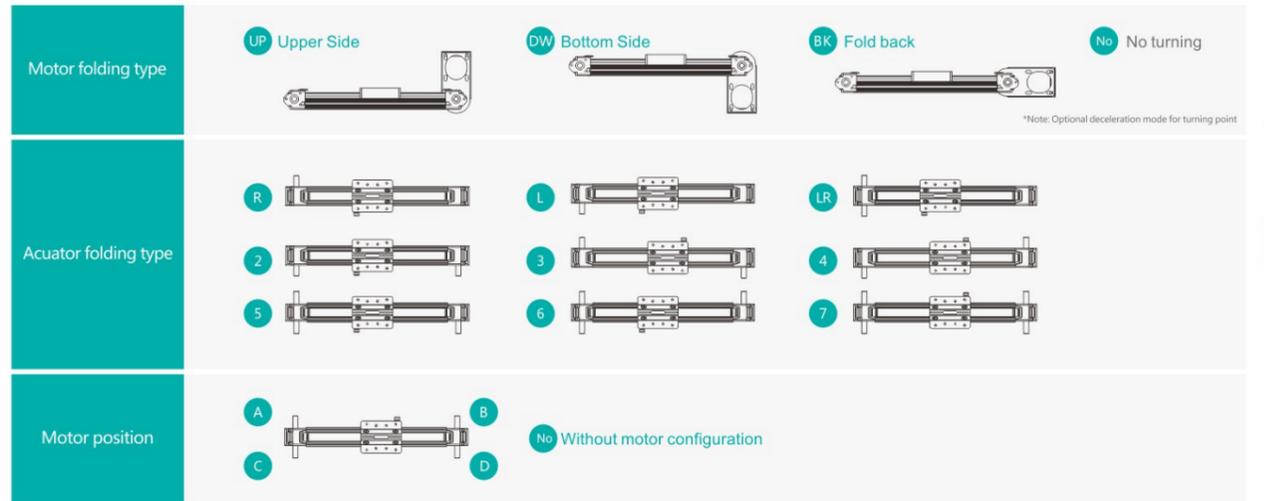
	Distance	A	B	C
	100mm	2kg	1.3kg	1.8kg
	150mm	1.5kg	0.5kg	0.8kg
	200mm	/	/	/

Nominal load of actuator	Model	KHSD45X
	Fx max(N)	100
	Fy max(N)	370
	Fz max(N)	429
	Mx max(N.M)	8.1
	My max(N.M)	9.6
Mz max(N.M)	4.2	



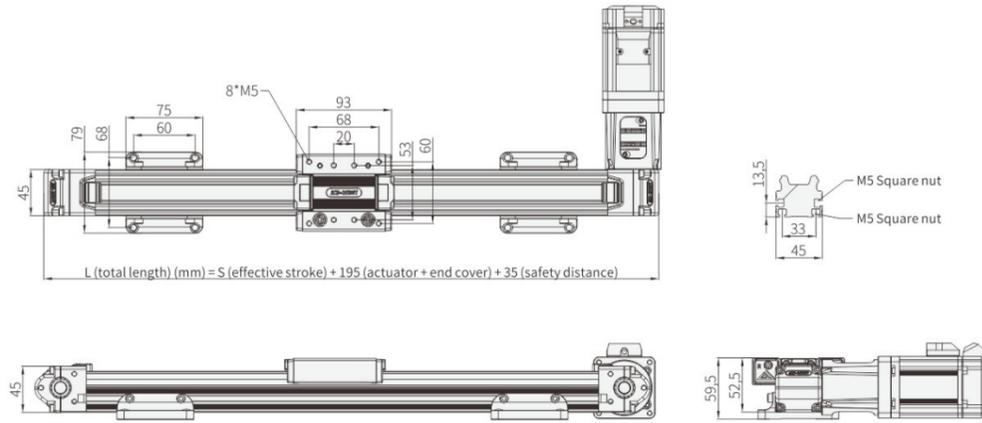
$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

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KHSD45X

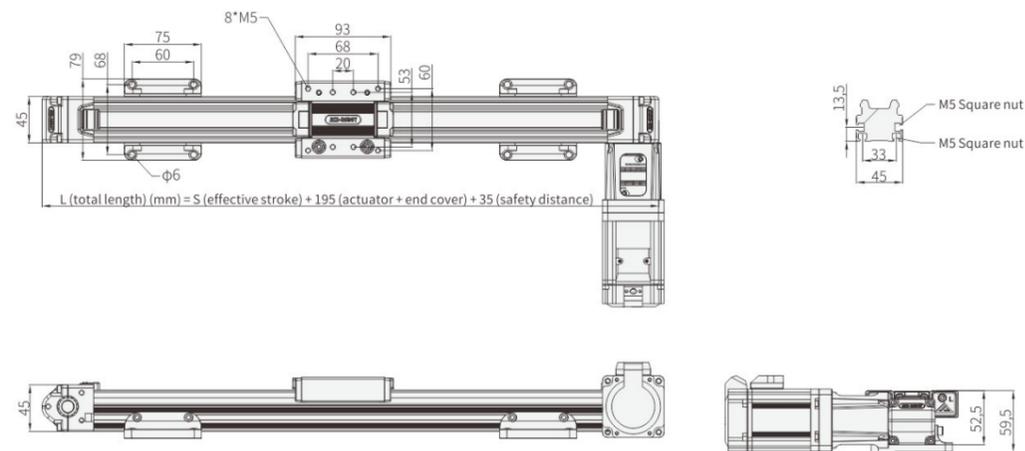
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2

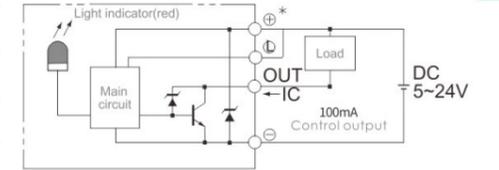
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

KHSD45D

Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	75
	Maximum Speed (mm/s)	1200
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg)
Vertical (kg)		3
Parts	Input Torque (N.m)	3
	Length (mm)	4 meters (other lengths custom-made)
	Width (mm)	45
	Belt (mm)	PU-3M-15(wire)
Model	HTD3M-15MM	
Electrical Machinery	Stepping: 57/60 Servos: 200W/400W	

Sensor Layout

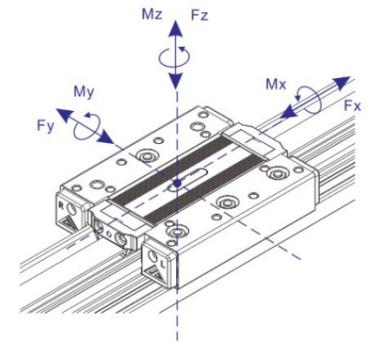


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

Distance	A	B	C	
	100mm	6kg	3.5kg	4kg
	150mm	2.5kg	1.6kg	2kg
200mm	0.8kg	0.6kg	1.2kg	

Nominal load of actuator	Model	KHSD45D
	Fx max(N)	200
	Fy max(N)	655
	Fz max(N)	762
	Mx max(N.M)	14.5
	My max(N.M)	22.8
Mz max(N.M)	9.8	



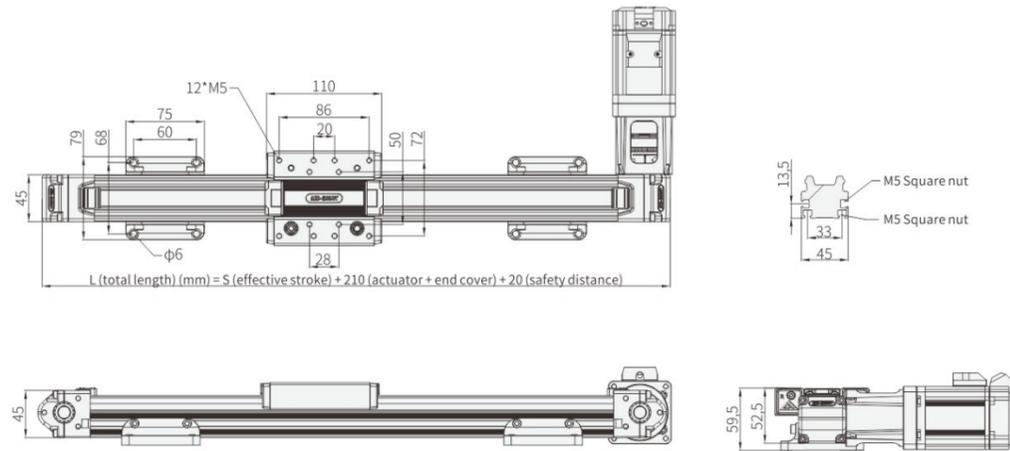
$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Motor folding type	<p>UP Upper Side</p>	<p>DW Bottom Side</p>	<p>BK Fold back</p>	<p>No No turning</p> <p>*Note: Optional deceleration mode for turning point</p>
Actuator folding type	<p>R</p>	<p>L</p>	<p>LR</p>	
Motor position	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>
	No Without motor configuration			

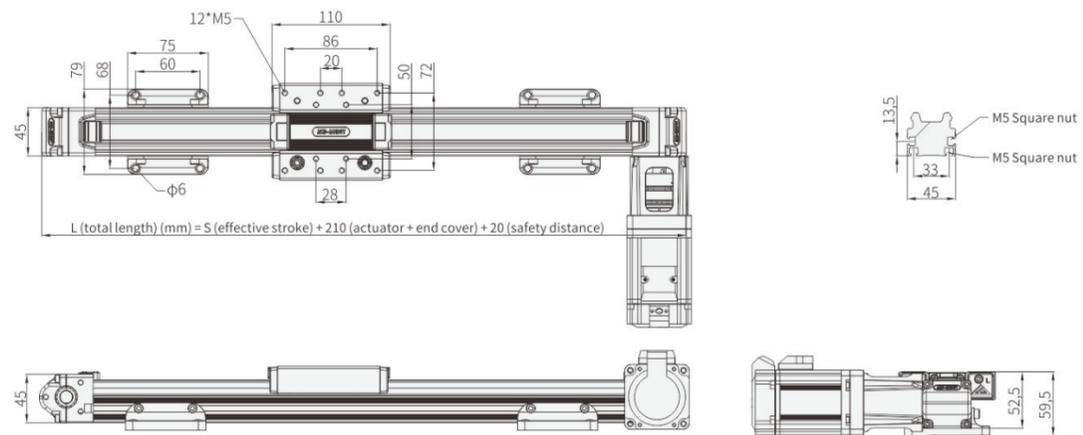
KHSD45D

Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

Motor fold right

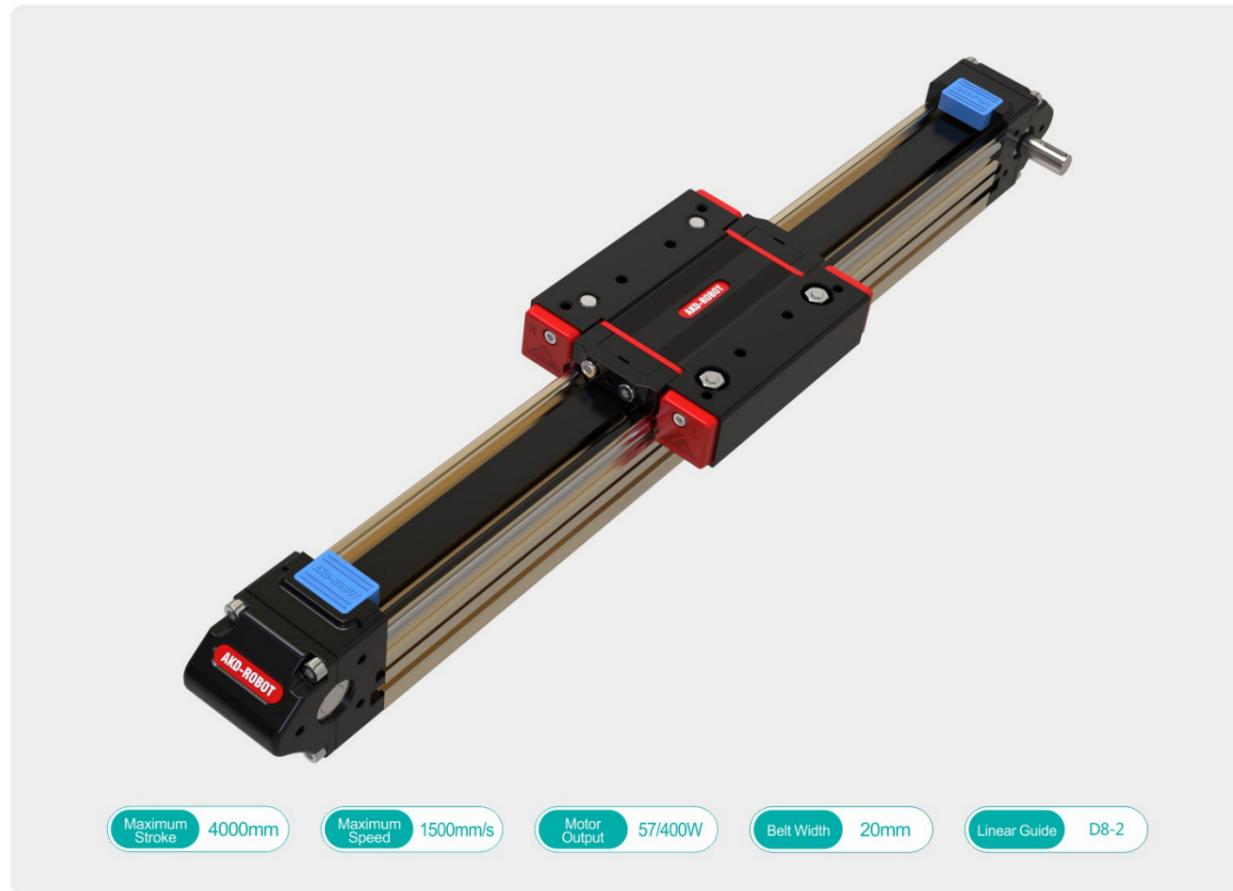


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230
KG	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230
KG	6.4	6.6	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4

MEMO

KHSD50

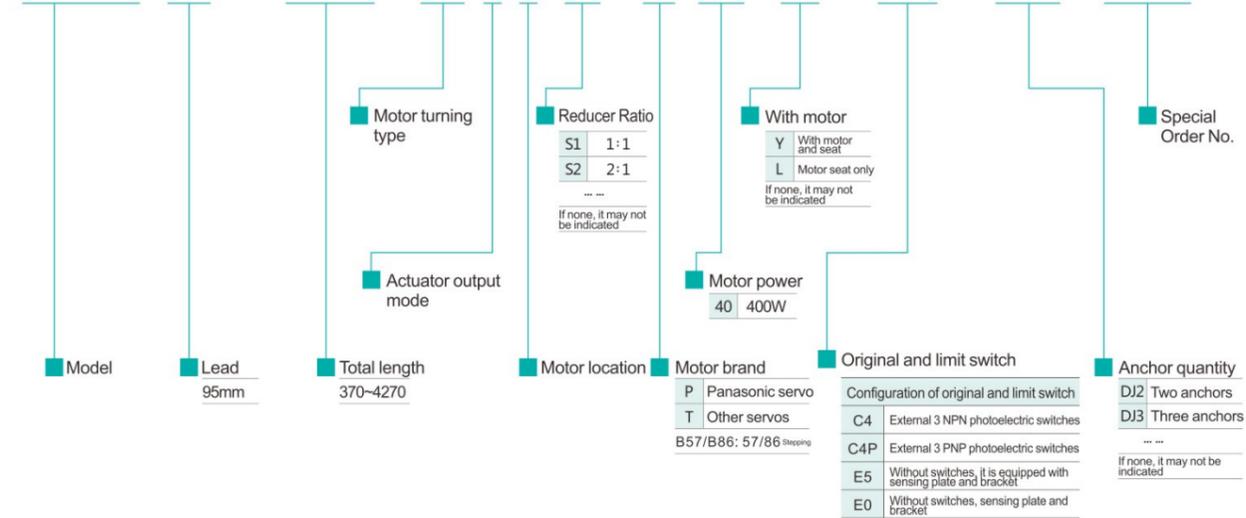
KHSD50



- Maximum Stroke 4000mm
- Maximum Speed 1500mm/s
- Motor Output 57/400W
- Belt Width 20mm
- Linear Guide D8-2

Ordering Method

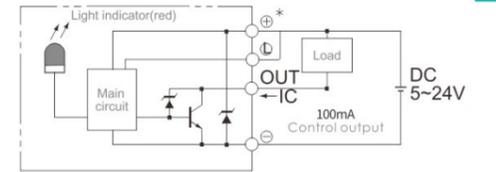
KHSD50 95 - 4270 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	95
	Maximum Speed (mm/s)	1500
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg)
Vertical (kg)		8
Parts	Input Torque (N.m)	7
	Length (mm)	4 meters (other lengths custom-made)
	Width (mm)	50
	Belt (mm)	PU-5M-20(wire)
	Model	STD5M-20MM
Electrical Machinery	Stepping: 57/86 Servos: 200W/400W	

Sensor Layout

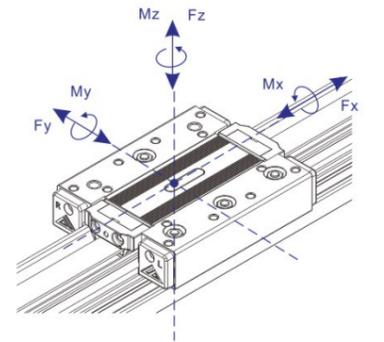


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

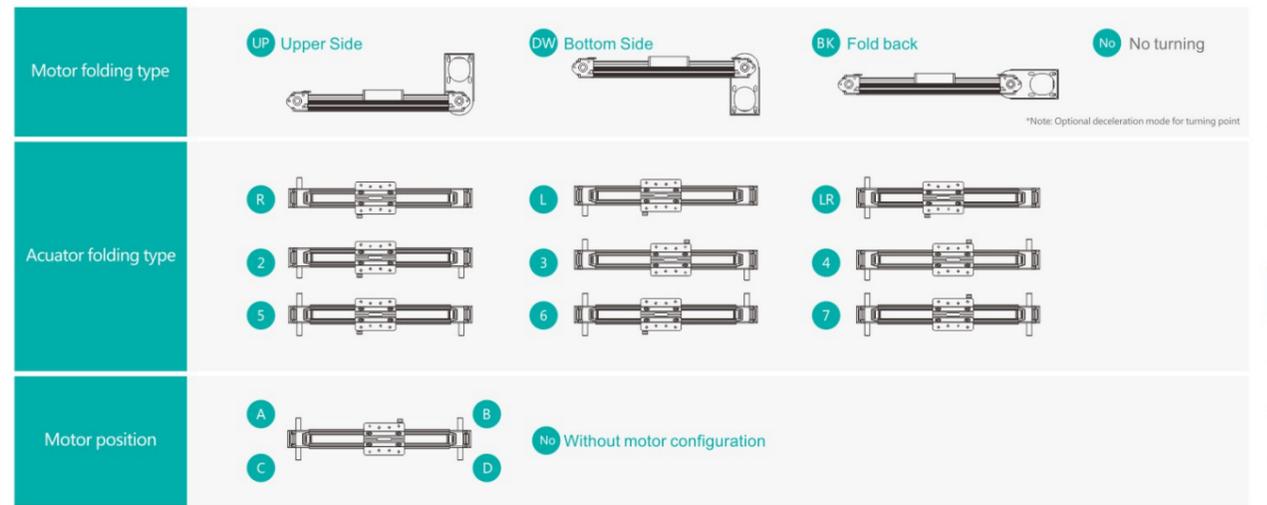
Distance	A	B	C	
	100mm	18kg	5kg	6kg
	150mm	7kg	2kg	3kg
	200mm	2kg	1kg	1.5kg

Nominal load of actuator	Model	KHSD50
	Fx max(N)	500
	Fy max(N)	655
	Fz max(N)	762
	Mx max(N.M)	17.5
	My max(N.M)	30.5
Mz max(N.M)	13.1	



$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

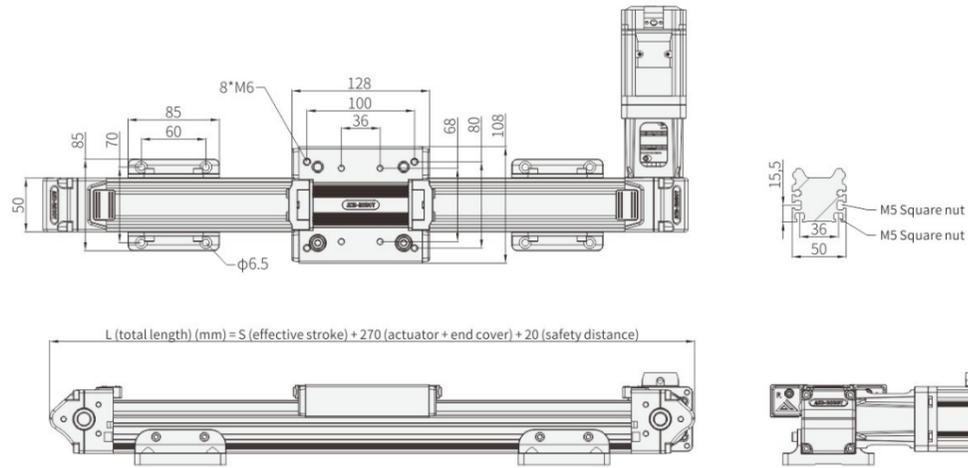
*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business



- KHSD30
- KHSD40
- KHSD45
- KHSD50**
- KHSD60
- KHSD80
- KHSD10E
- KHSD12E

KHSD50

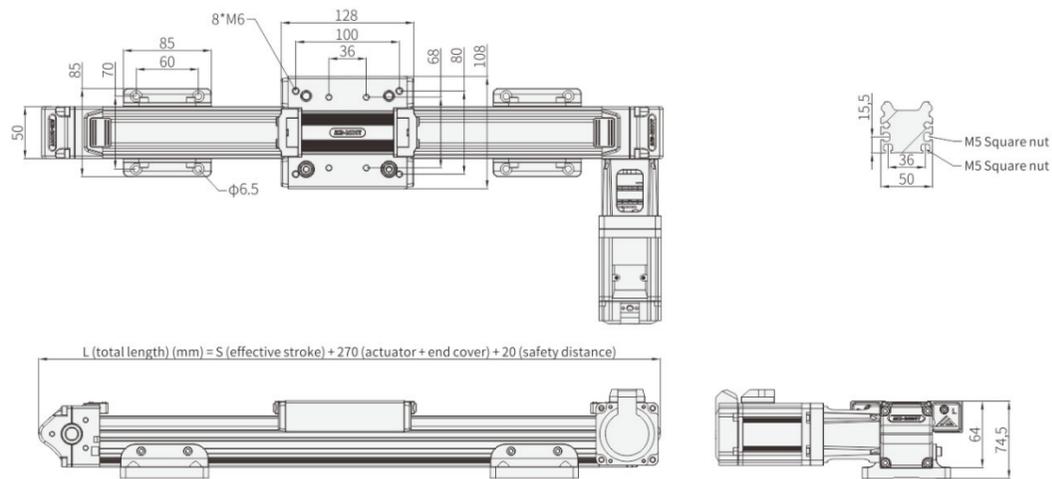
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	380	480	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280
KG	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2380	2480	2580	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280
KG	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6

Motor fold right



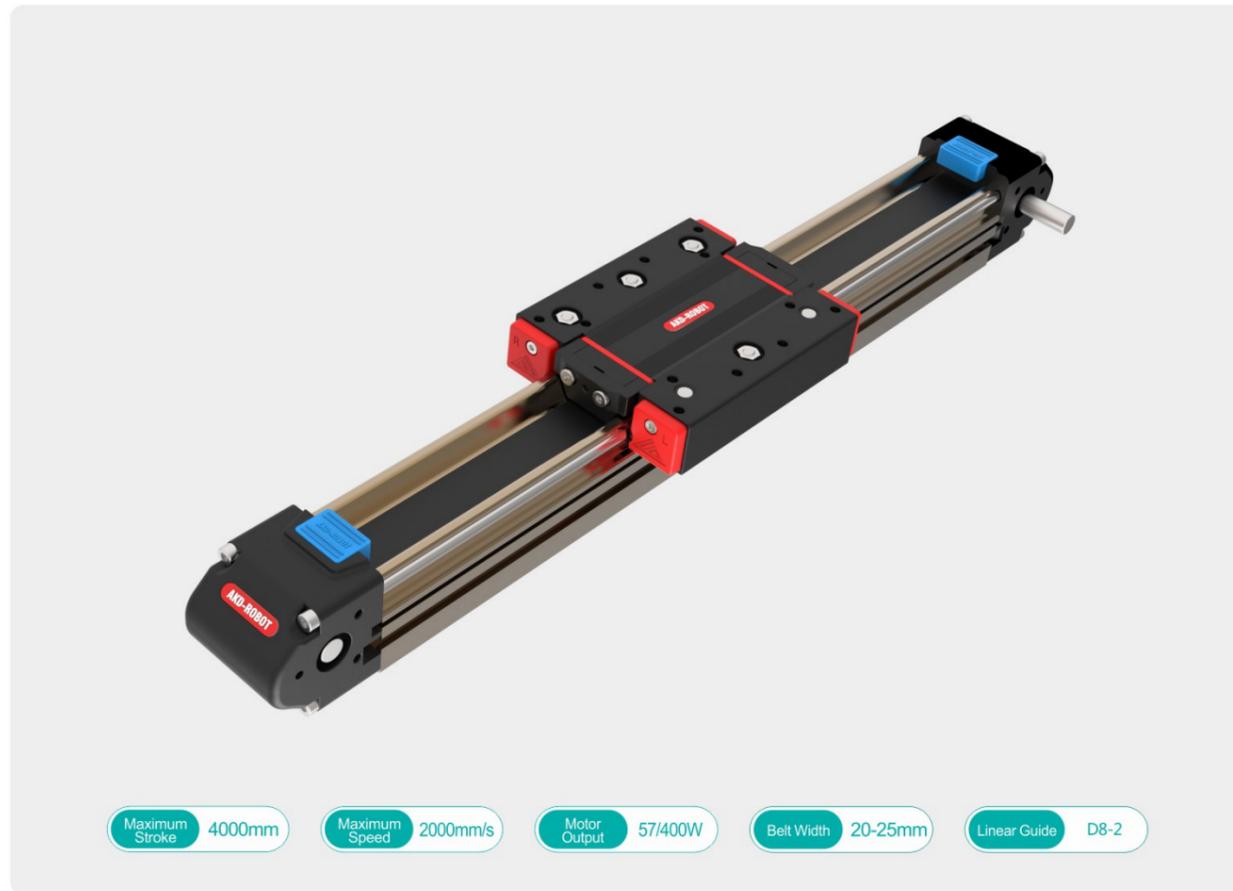
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	380	480	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280
KG	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2380	2480	2580	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280
KG	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6

MEMO

KHSD60

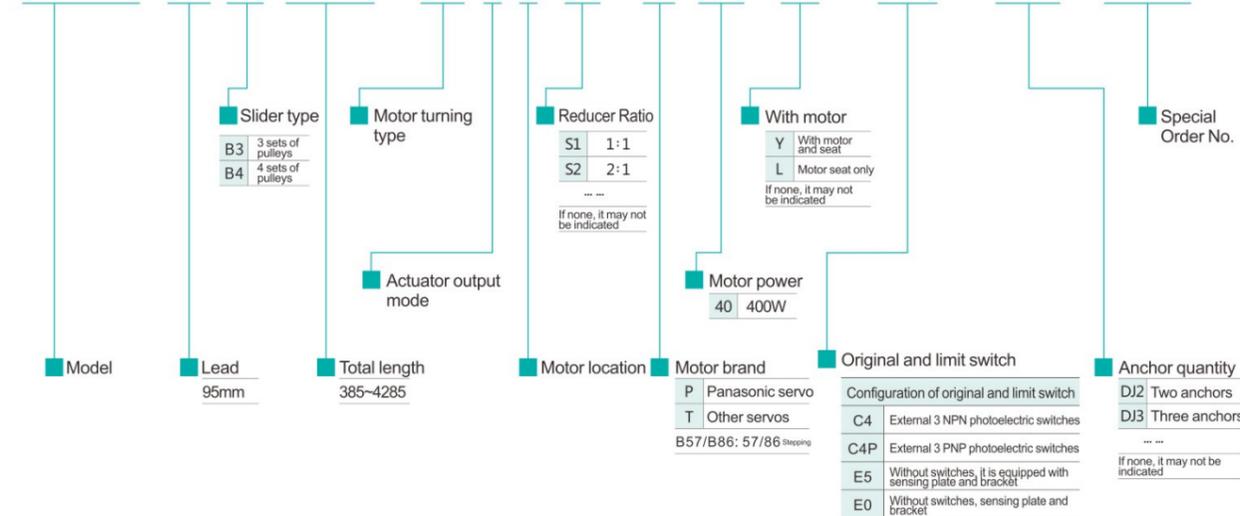
KHSD60 B3



- Maximum Stroke 4000mm
- Maximum Speed 2000mm/s
- Motor Output 57/400W
- Belt Width 20-25mm
- Linear Guide D8-2

Ordering Method

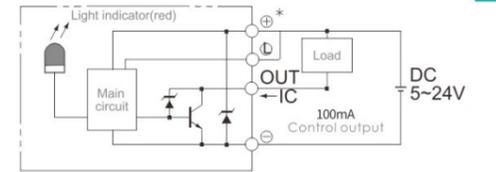
KHSD60 95 B3-4285 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	95
	Maximum Speed (mm/s)	2000
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg)
Vertical (kg)		12
Parts	Input Torque (N.m)	8.5
	Length (mm)	6 meters (other lengths custom-made)
	Width (mm)	60
	Belt (mm)	PU-5M-20(wire)
	Model	STD5M-20MM
Electrical Machinery	Stepping: 57/86 Servos: 200W/400W	

Sensor Layout

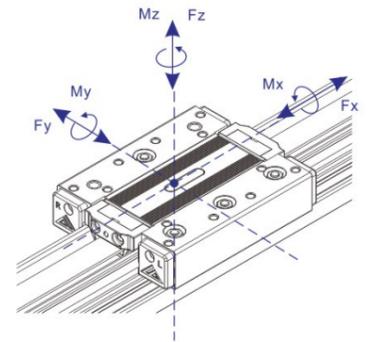


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

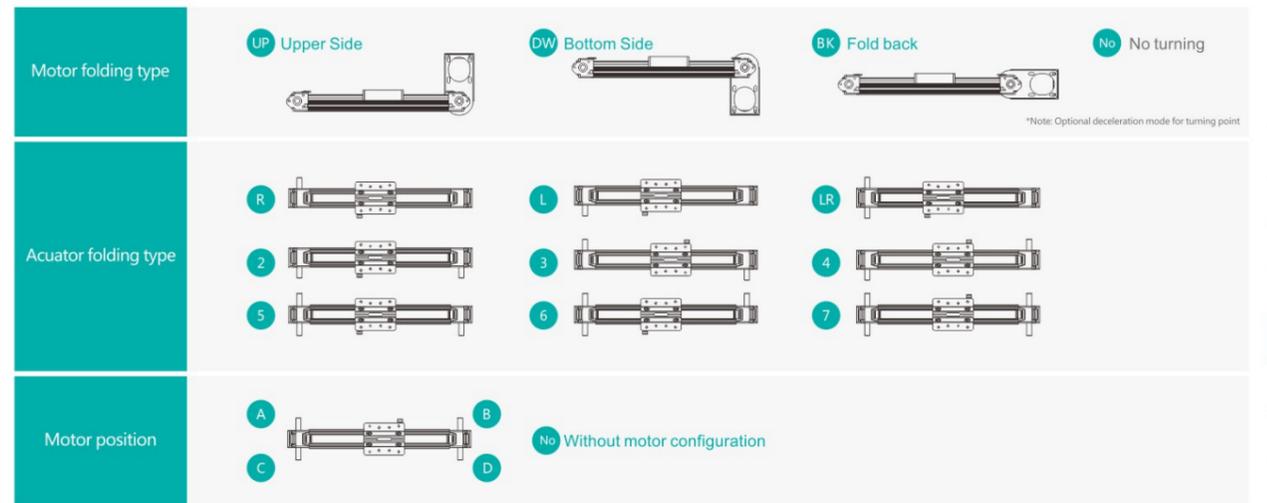
Distance	A	B	C	
	100mm	20kg	7kg	8kg
	150mm	6kg	3kg	3.5kg
	200mm	2.5kg	1.2kg	1.8kg

Nominal load of actuator	Model	KHSD60 B3
	Fx max(N)	515
	Fy max(N)	1001
	Fz max(N)	1164
	Mx max(N.M)	32.6
	My max(N.M)	55.3
Mz max(N.M)	23.8	



$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

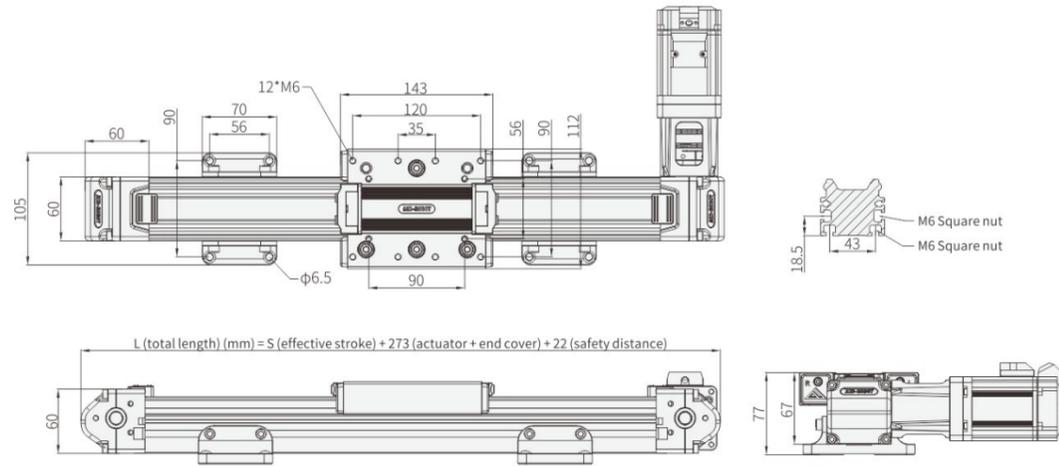
*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business



KHSD60 B3

KHSD60 B4

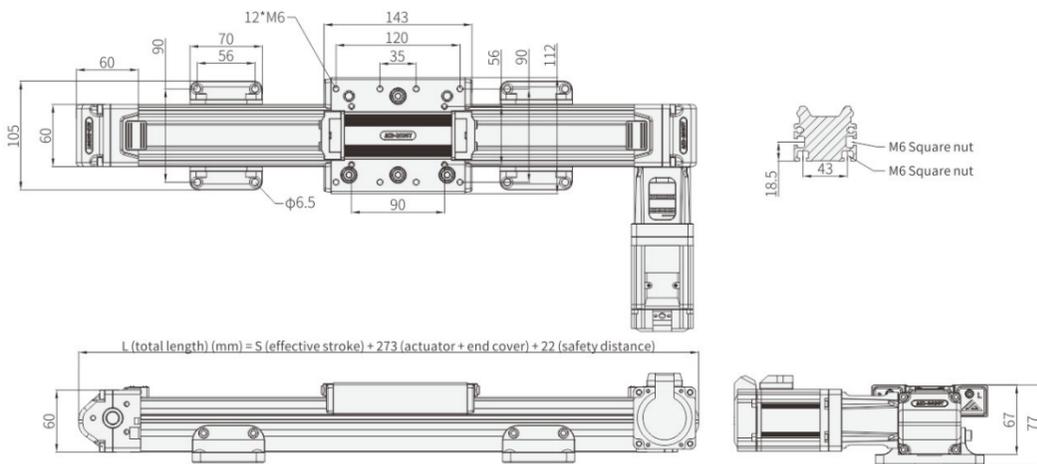
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	385	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285
KG	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2385	2485	2585	2685	2785	2885	2985	3085	3185	3285	3385	3485	3585	3685	3785	3885	3985	4085	4185	4285
KG	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6

Motor fold right



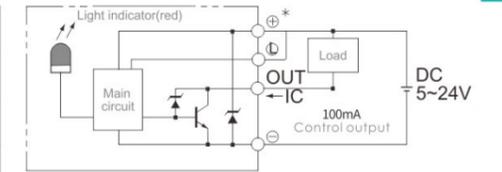
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	385	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285
KG	3.0	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2385	2485	2585	2685	2785	2885	2985	3085	3185	3285	3385	3485	3585	3685	3785	3885	3985	4085	4185	4285
KG	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6

Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	95
	Maximum Speed (mm/s)	2000
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 40 Vertical (kg) 15
Parts	Input Torque (N.m)	8.5
	Length (mm)	6 meters (other lengths custom-made)
	Width (mm)	60
	Belt (mm)	PU-5M-20(wire)
	Model	STD5M-20MM
Electrical Machinery	Stepping: 57/86 Servos: 200W/400W/750W	

Sensor Layout

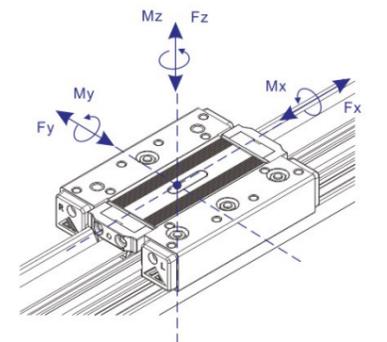


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

Distance	A	B	C
100mm	23kg	9kg	11kg
150mm	9kg	3.8kg	4kg
200mm	3.2kg	1.6kg	2.1kg

Nominal load of actuator	Model	KHSD60 B4
	Fx max(N)	500
	Fy max(N)	1502
	Fz max(N)	1750
	Mx max(N.M)	49
	My max(N.M)	66.3
Mz max(N.M)	53	



$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Motor folding type	<p>UP Upper Side</p>	<p>DW Bottom Side</p>	<p>BK Fold back</p>	<p>No No turning</p>
Actuator folding type	<p>R</p>	<p>L</p>	<p>LR</p>	
Motor position	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>

*Note: Optional deceleration mode for turning point

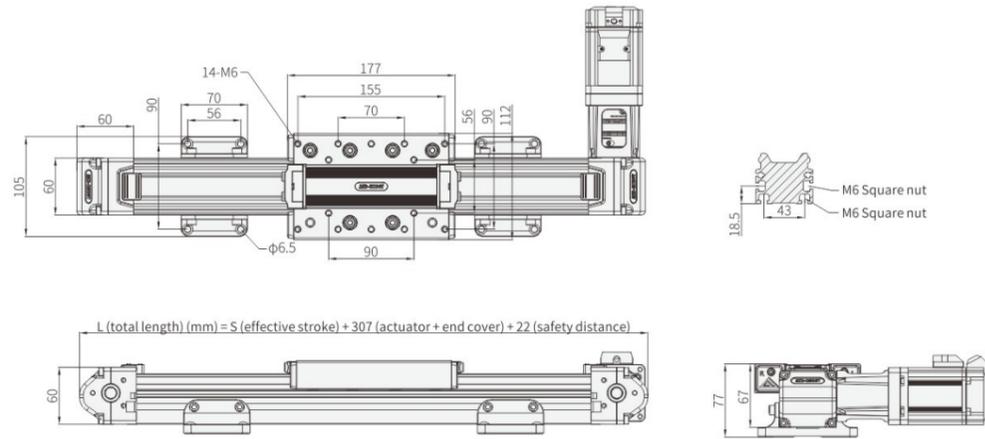
KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD60 B4

皮带
Belt

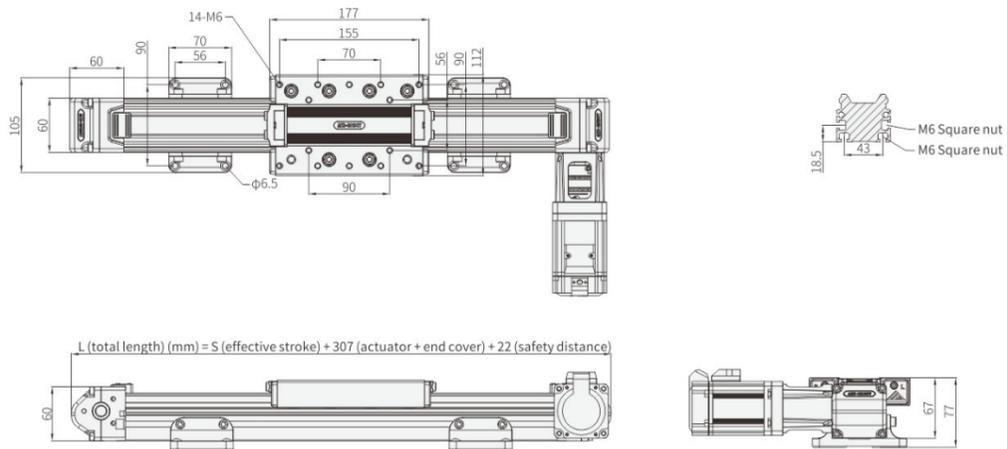
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320
KG	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.6	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2420	2520	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320
KG	11.2	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0

Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320
KG	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.6	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2420	2520	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320
KG	11.2	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0

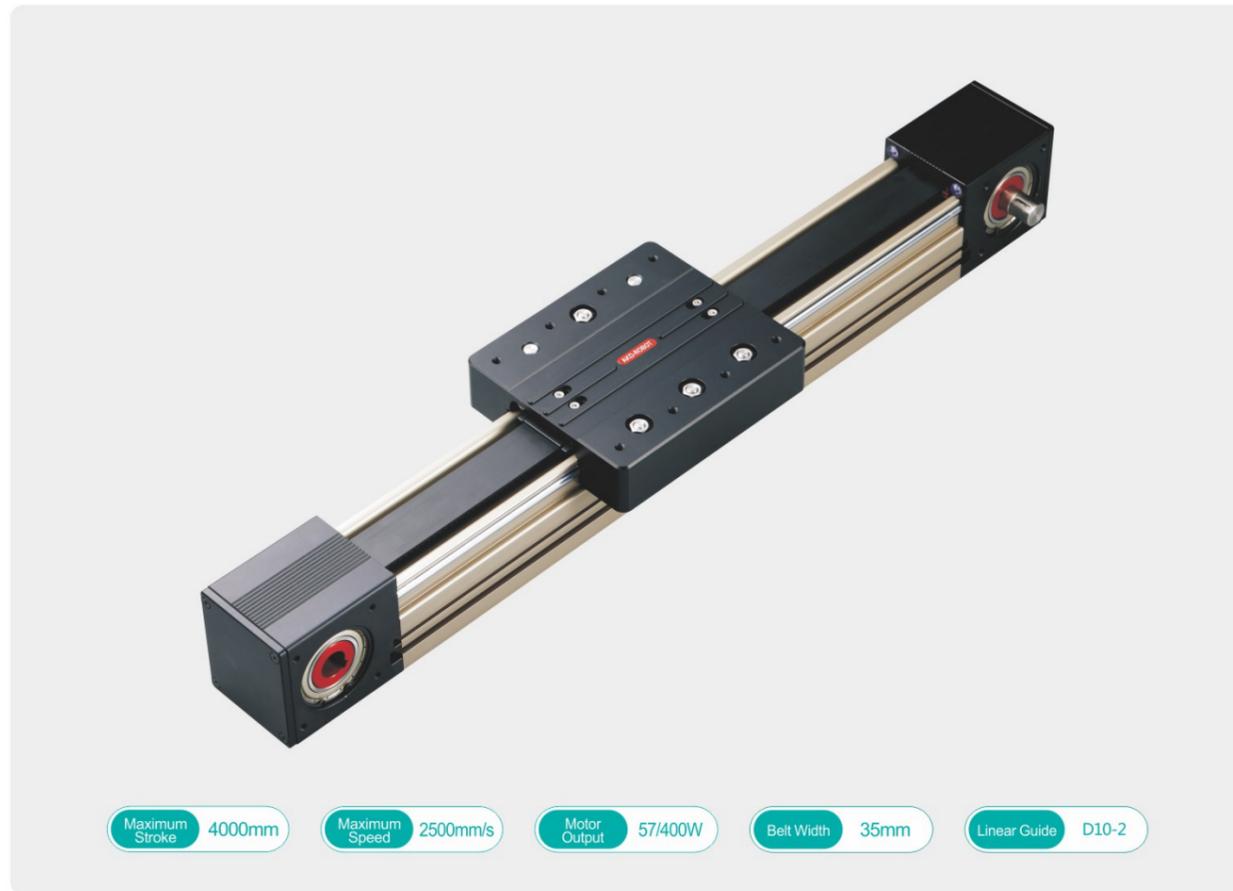
MEMO

KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD80

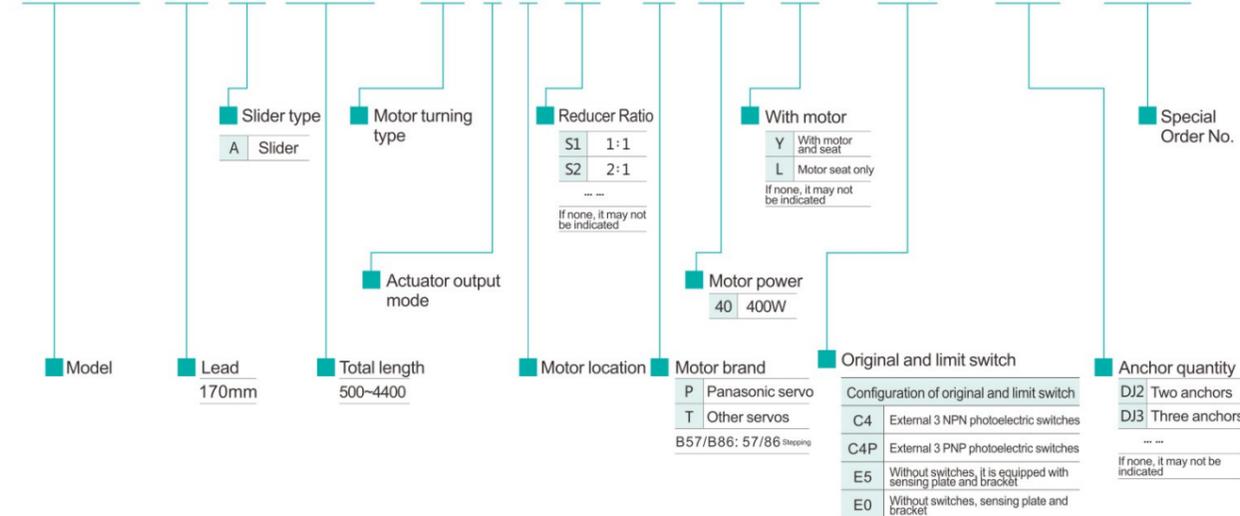
KHSD80



- Maximum Stroke 4000mm
- Maximum Speed 2500mm/s
- Motor Output 57/400W
- Belt Width 35mm
- Linear Guide D10-2

Ordering Method

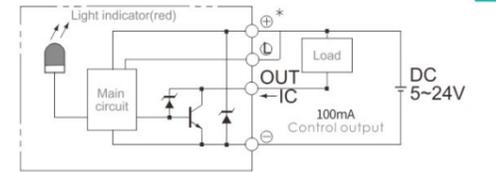
KHSD80 170 A- 4400 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	170
	Maximum Speed (mm/s)	2500
	Straightness	±0.05/300mm
Maximum Payload	Horizontal (kg)	60
	Vertical (kg)	20
Input Torque (N.m)		13.5
Length (mm)		6 meters (other lengths custom-made)
Width (mm)		80
Belt (mm)		PU-5M-35(wire)
Model		STD5M-34MM
Electrical Machinery		Stepping: 57/86 Servos: 200W/400W

Sensor Layout

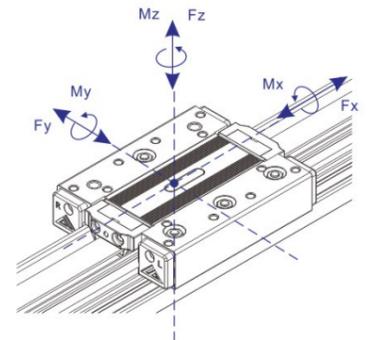


*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Allowable Moment

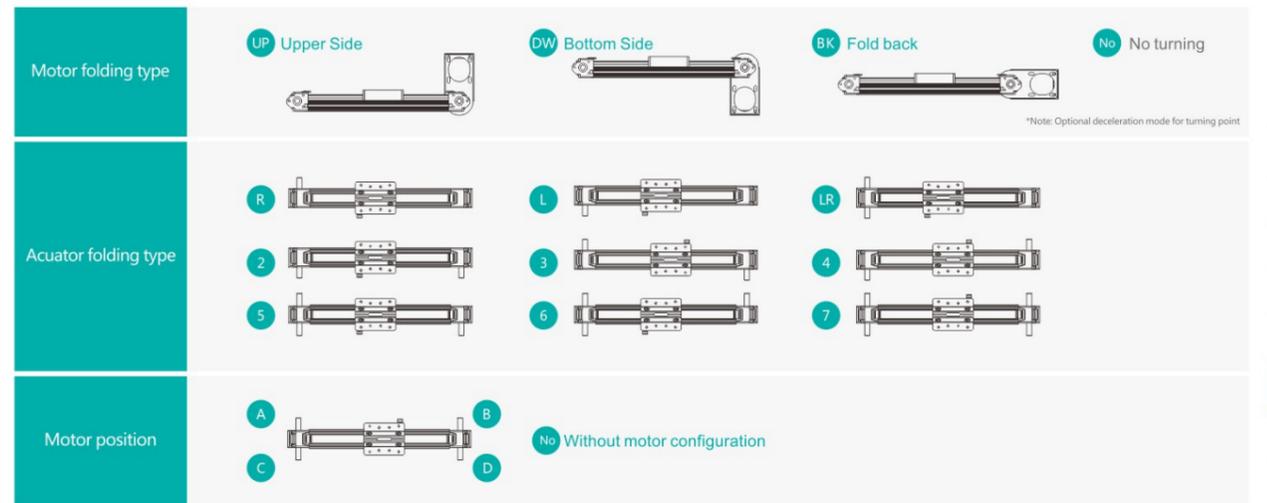
	Distance	A	B	C
	100mm	35kg	15kg	19kg
	200mm	15kg	8kg	10kg
	300mm	6kg	4kg	7kg

Nominal load of actuator	Model	KHSD80
	Fx max(N)	710
	Fy max(N)	1450
	Fz max(N)	1689
	Mx max(N.M)	63.7
	My max(N.M)	88.9
Mz max(N.M)	38.2	



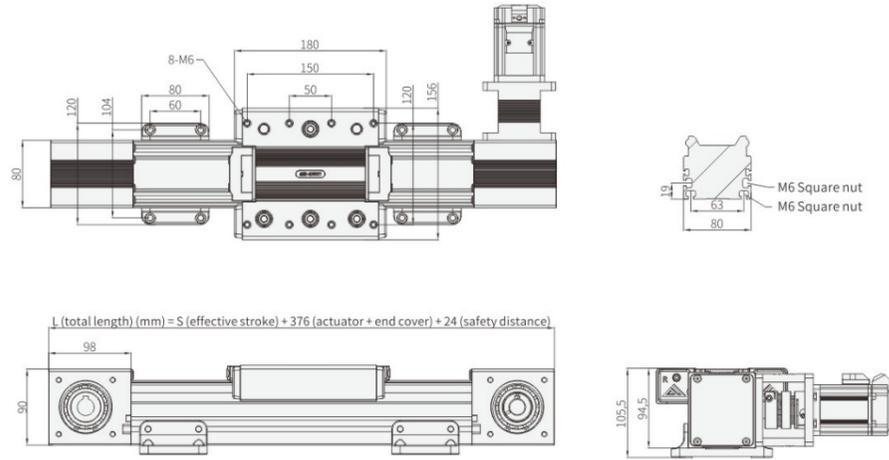
$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business



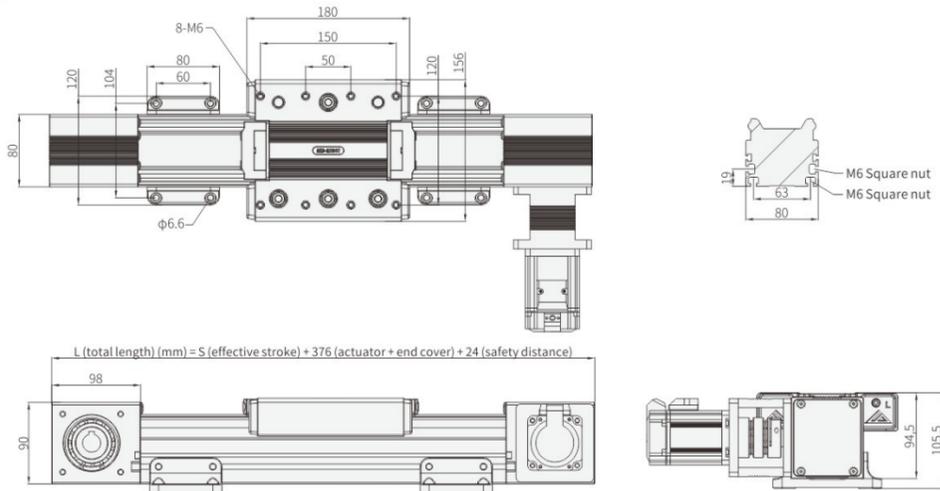
KHSD80

Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
KG	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400
KG	30	31	32	33	35	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
KG	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400
KG	30	31	32	33	35	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

MEMO

KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD30
KHSD40
KHSD45
KHSD50
KHSD60
KHSD80
KHSD10E
KHSD12E

KHSD10E

KHSD10E

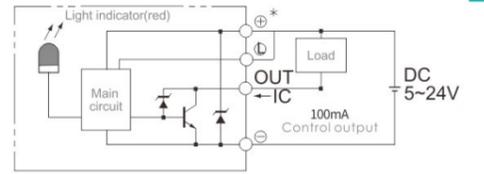


- Maximum Stroke 4000mm
- Maximum Speed 2000mm/s
- Motor Output 400W
- Belt Width 25mm
- Linear Guide D8-2

Specification

Spec	Repeatability (mm)	±0.05
	Lead (mm)	110
	Maximum Speed (mm/s)	2000
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 60 Vertical (kg) /
Parts	Input Torque (N.m)	8.5
	Length (mm)	6 meters (other lengths custom-made)
	Width (mm)	50
	Belt (mm)	PU-5M-35(wire)
	Model	STD5M-22MM
Electrical Machinery	Stepping: 57/86 Servos: 200W/400W/750W	

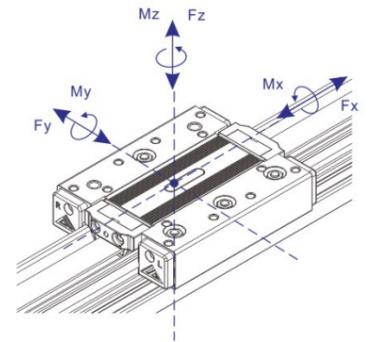
Sensor Layout



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

i	1			
m _{ex}	kg	10	15	30
t _a	ms	63	68	75
s _a	mm	24	26	29
a	m/s ²	12	11	10
V _{dc}	m/s	0.93		
&	mm	0.08		

Nominal load of actuator	Model	KHSD10E
	F _x max(N)	515
	F _y max(N)	1001
	F _z max(N)	1164
	M _x max(N.M)	32.6
	M _y max(N.M)	55.3
M _z max(N.M)	23.8	

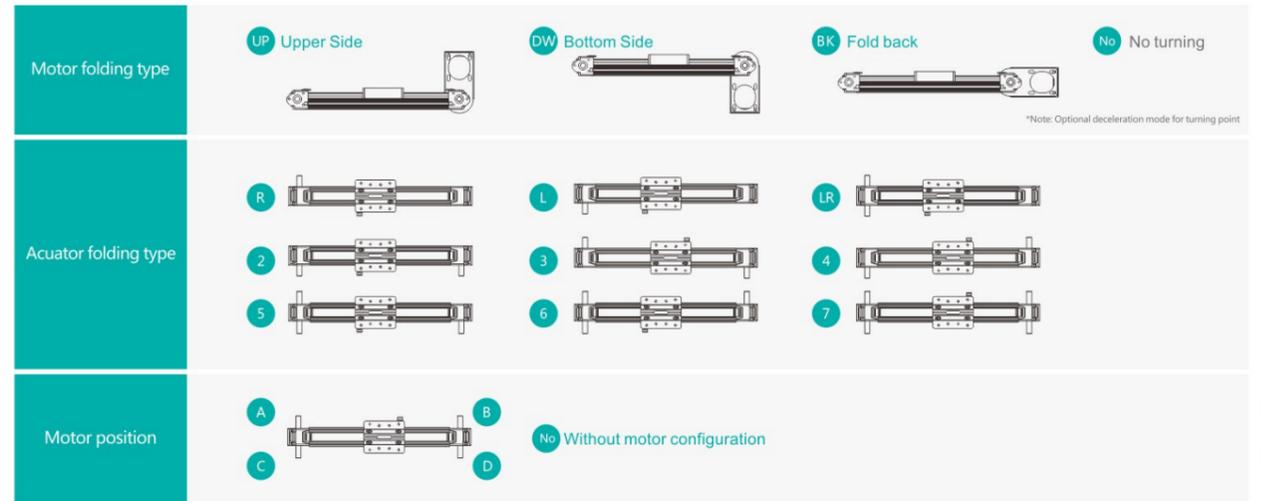
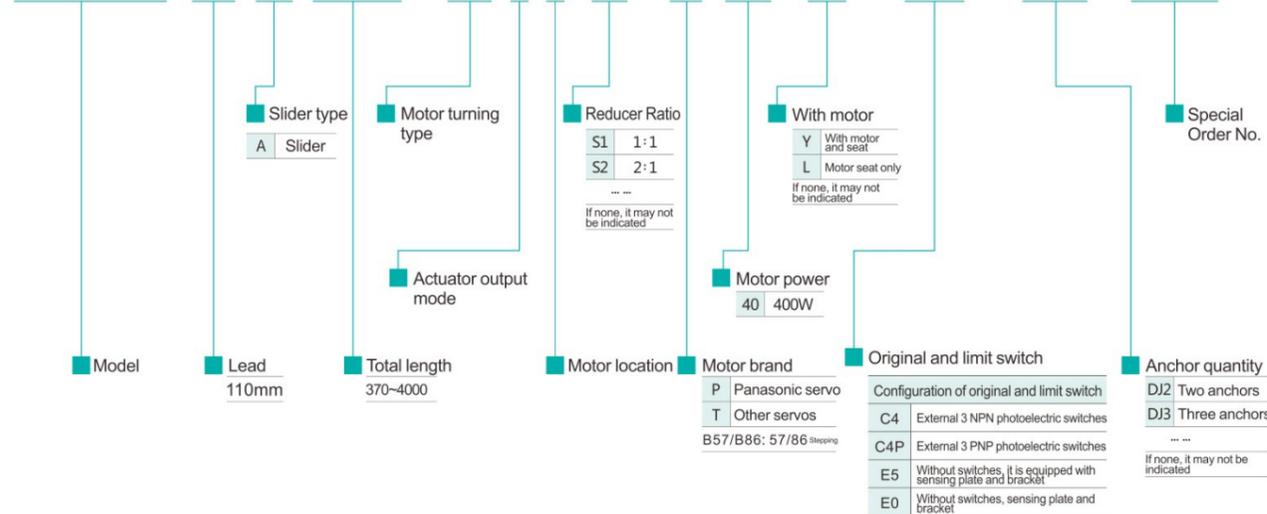


$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Ordering Method

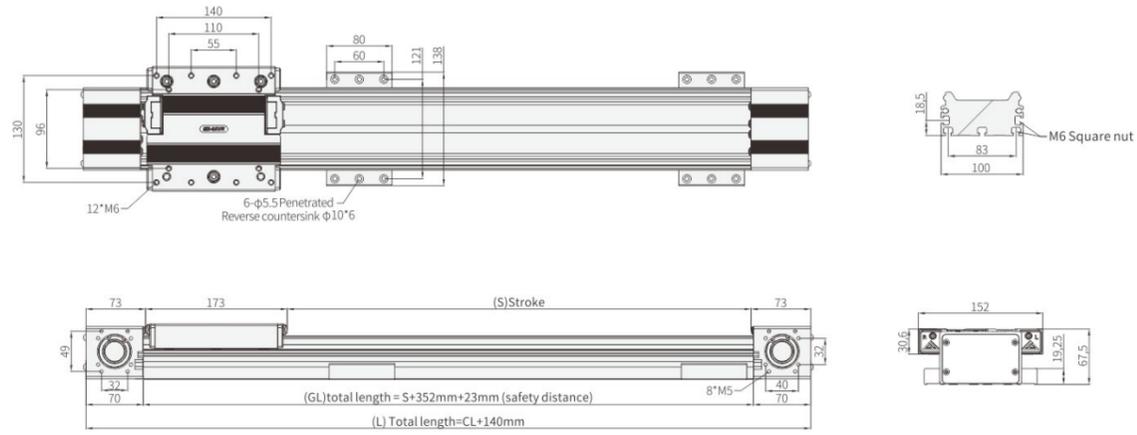
KHSD10E 110 A-4000 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



KHSD10E

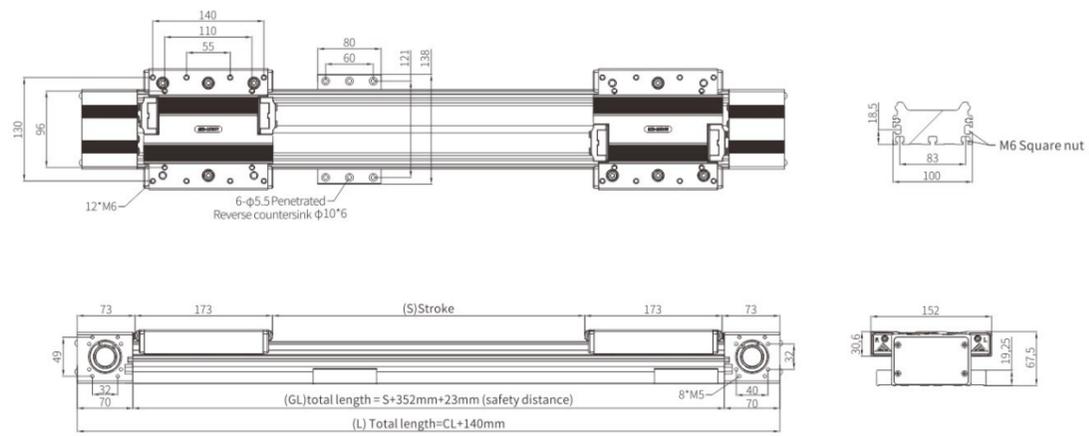
KHSD10E

Motor fold left



MEMO

Motor fold right



- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E**
- KHSD12E

- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E**
- KHSD12E

KHSD12E

KHSD12E

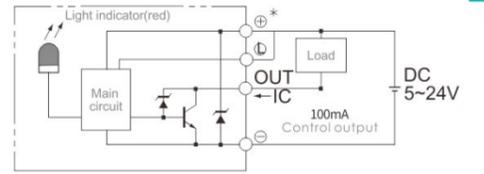


- Maximum Stroke 4000mm
- Maximum Speed 2500mm/s
- Motor Output 400W
- Belt Width 25mm
- Linear Guide D10-2

Specification

Spec	Repeatability (mm)	±0.05	
	Lead (mm)	170	
	Maximum Speed (mm/s)	2500	
	Straightness	±0.05/300mm	
	Maximum Payload	Horizontal (kg)	80
Vertical (kg)		/	
Input Torque (N.m)	8.5		
Length (mm)	6 meters (other lengths custom-made)		
Parts	Width (mm)	120	
	Belt (mm)	PU-5M-25(wire)	
	Model	STD5M-22MM	
	Electrical Machinery	Stepping: 57/86 Servos: 200W/400W	

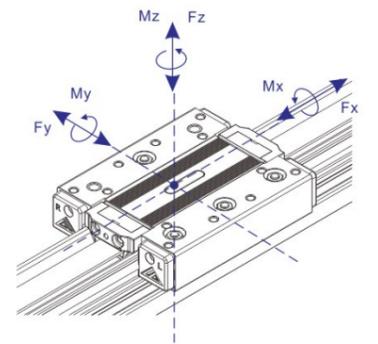
Sensor Layout



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

i	1	10	15	30
m _{ex}	kg	63	68	75
t _a	ms	24	26	29
a	m/s ²	12	11	10
V _{dc}	m/s	0.93		
&	mm	0.08		

Nominal load of actuator	Model	KHSD12E
F _x max(N)		700
F _y max(N)		1442
F _z max(N)		1677
M _x max(N.M)		63.7
M _y max(N.M)		88.9
M _z max(N.M)		38.2

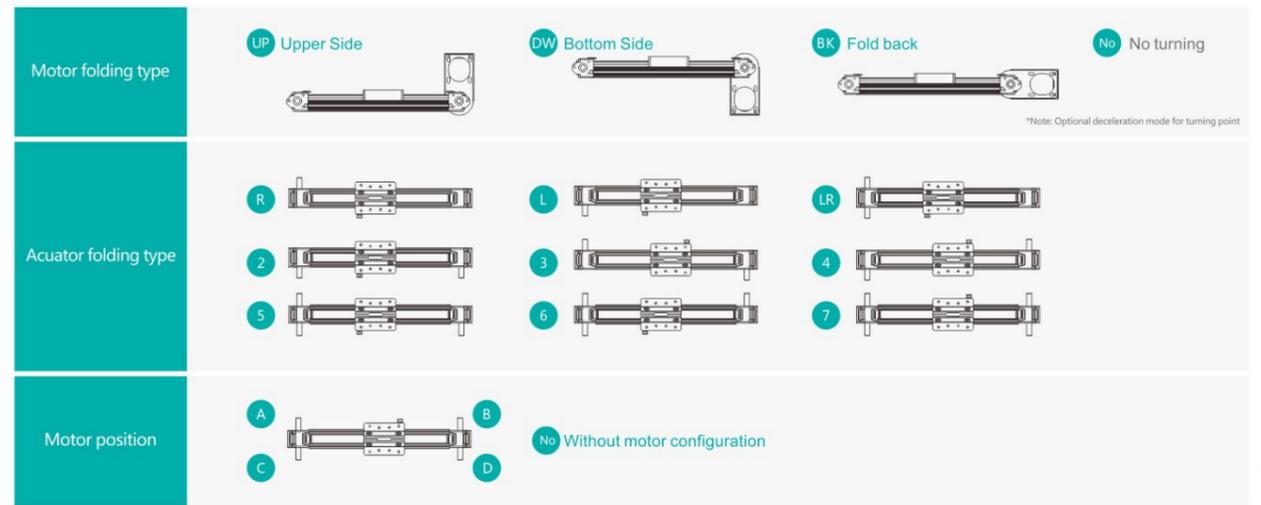
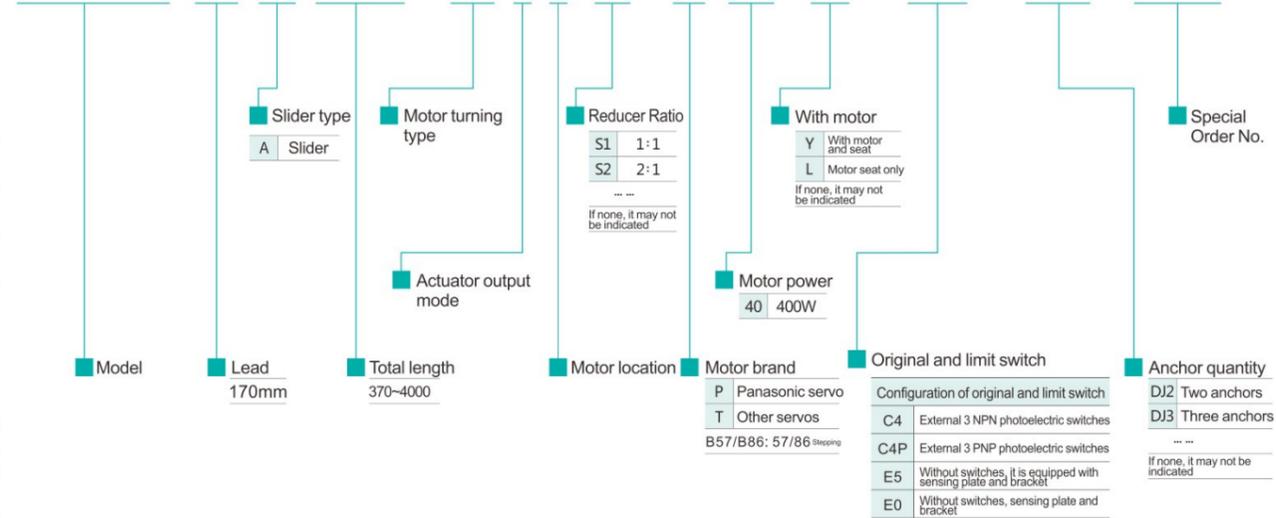


$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Ordering Method

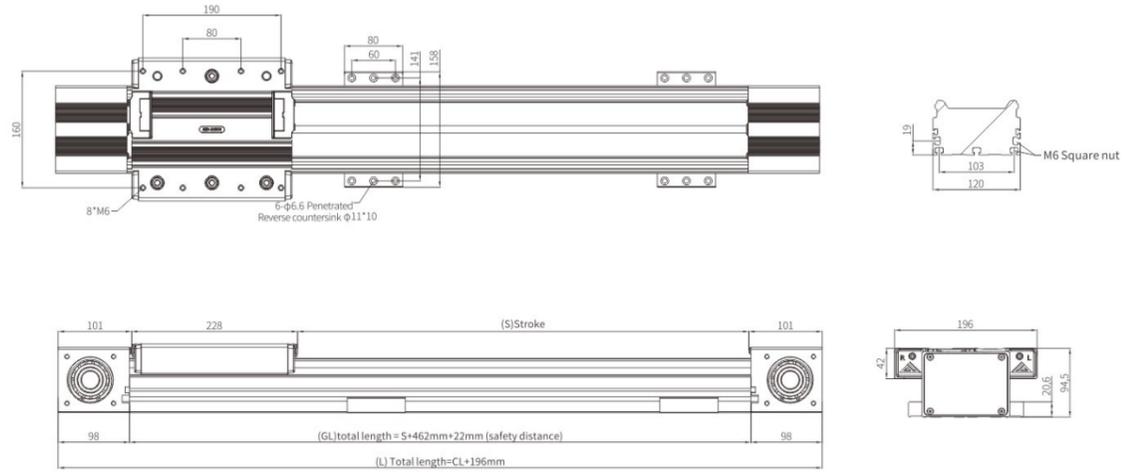
KHSD12E 170 A-4000 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



KHSD12E

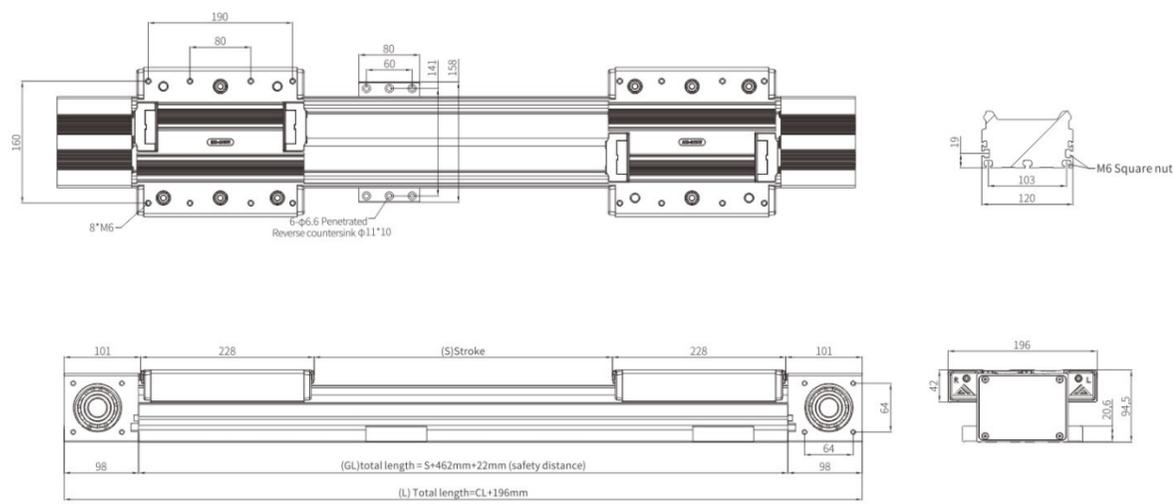
KHSD12E

Motor fold left



MEMO

Motor fold right



- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E**
- KHSD12E

- KHSD30
- KHSD40
- KHSD45
- KHSD50
- KHSD60
- KHSD80
- KHSD10E**
- KHSD12E

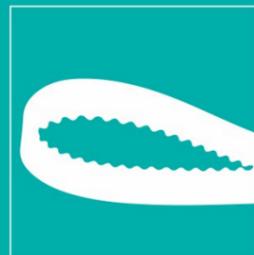
KHSD Series



CONTENTS

Standard/Belt style external linear guide rail

Belt Type Driven



Long Stroke, High Speed

Belt drive module can easily achieve long travel conditions and large range of motion. Aluminum extruded structure with slide rails, belt and pulley design, which saves you cost and time in the assembly stage. Maximum stroke is up to 4000mm. Line speed up to 2500mm/s to improve the productivity of the machine.

KHSD50K



Width: 50mm
Max.stroke: 2500mm...421
Max.payload: 25kg

KHSD60K



Width: 60mm
Max.stroke: 4000mm...425
Max.payload: 40kg

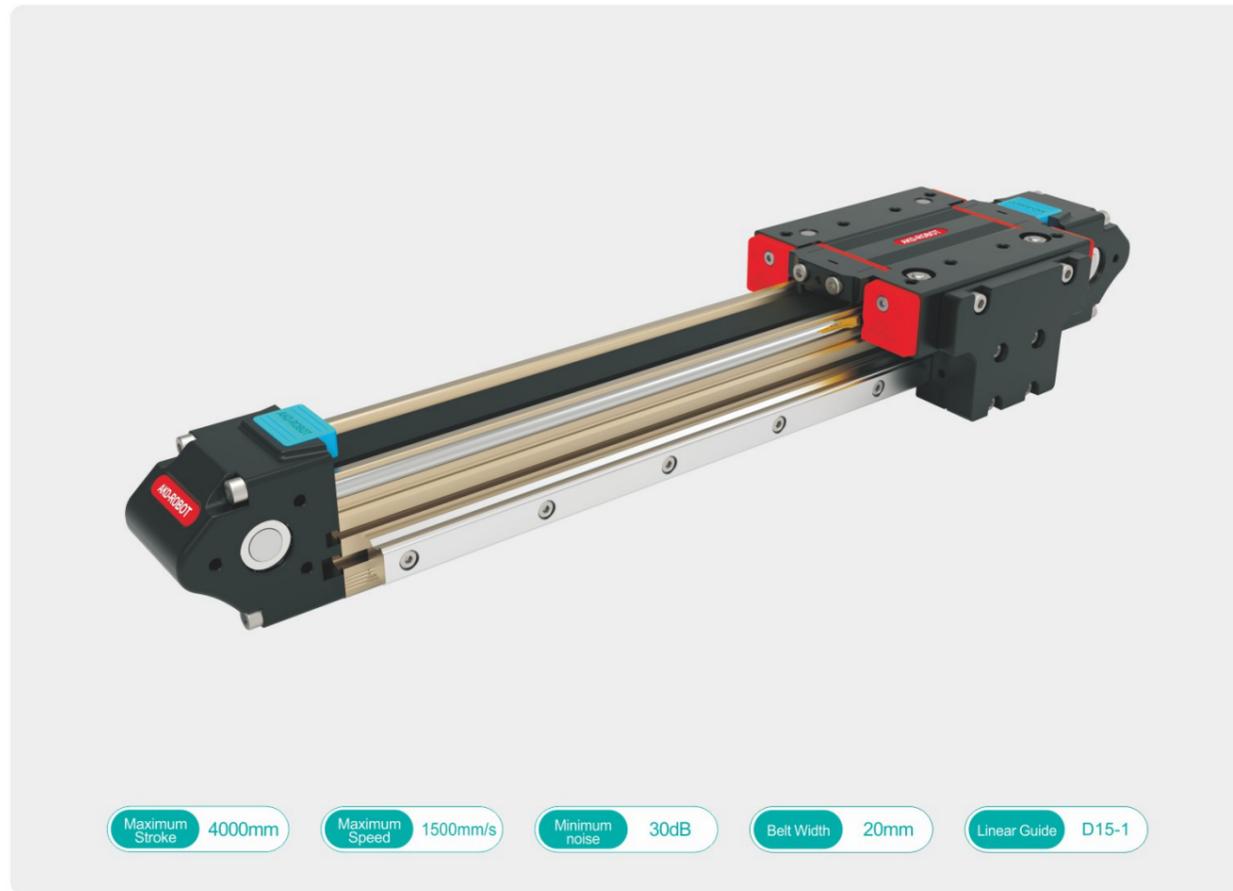
KHSD80K



Width: 80mm
Max.stroke: 4000mm...431
Max.payload: 60kg

KHSD50K

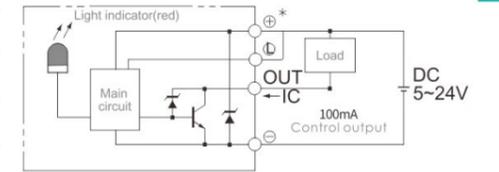
KHSD50K



Specification

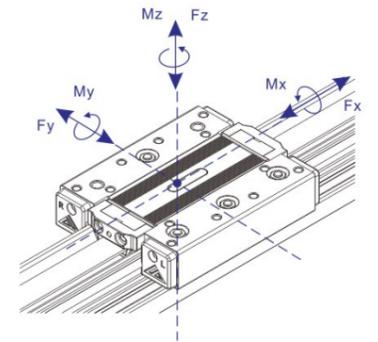
Spec	Repeatability (mm)	±0.05
	Lead (mm)	95
	Maximum Speed (mm/s)	1500
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 25 Vertical (kg) 8
Parts	Input Torque (N.m)	7
	Length (mm)	4 meters (other lengths custom-made)
	Width (mm)	50
	Belt (mm)	PU-5M-20(wire)
	Model	STD5M-20MM
Electrical Machinery	Stepping: 57/86 Servos: 200W/400W	

Sensor Layout



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Nominal load of actuator	Model	KHSD50K
	Fx max(N)	500
	Fy max(N)	655
	Fz max(N)	762
	Mx max(N.M)	17.5
	My max(N.M)	30.5
Mz max(N.M)	13.1	



$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Ordering Method

KHSD50K 95 - 4270 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123

- Model:** KHSD50K
- Lead:** 95mm
- Total length:** 370-4270
- Motor turning type:** UP (Upper Side)
- Reducer Ratio:** S1 1:1, S2 2:1
- Actuator output mode:** A
- Motor location:** 7
- Motor brand:** P (Panasonic servo), T (Other servos)
- Motor power:** 40 (400W)
- Original and limit switch:** E0 (Without switches, sensing plate and bracket)
- With motor:** Y (With motor and seat), L (Motor seat only)
- Anchor quantity:** DJ2 (Two anchors), DJ3 (Three anchors)
- Special Order No.:** D123

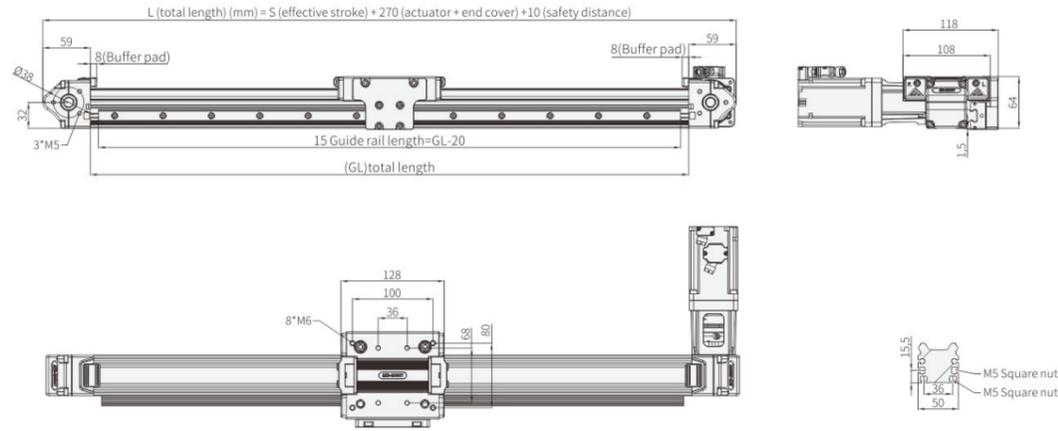
Motor folding type: UP (Upper Side), DW (Bottom Side), BK (Fold back), No (No turning)

Actuator folding type: R, L, LR, 2, 3, 4, 5, 6, 7

Motor position: A, B, C, D, No (Without motor configuration)

KHSD50K

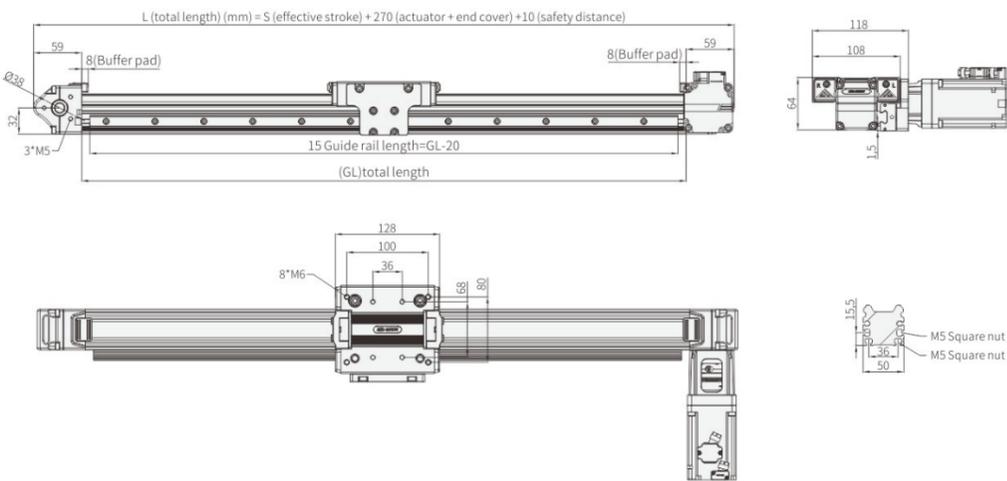
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	380	480	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280
KG	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2380	2480	2580	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280
KG	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3

Motor fold right



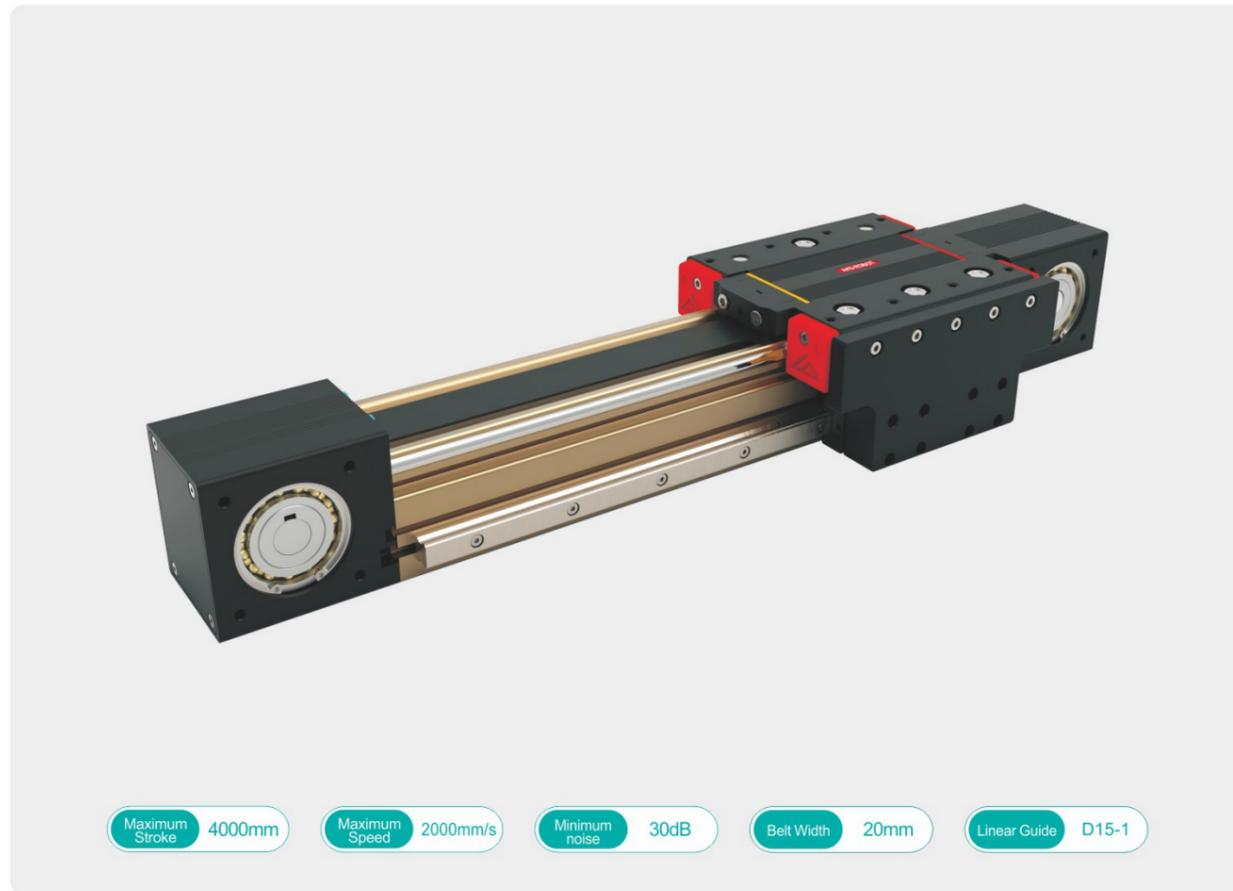
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	380	480	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280
KG	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2380	2480	2580	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280
KG	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3

MEMO

KHSD60K

KHSD60K B3

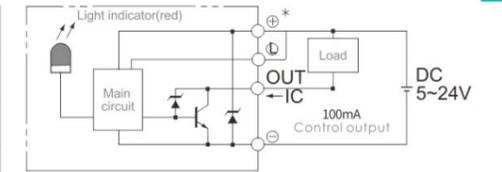


- Maximum Stroke 4000mm
- Maximum Speed 2000mm/s
- Minimum noise 30dB
- Belt Width 20mm
- Linear Guide D15-1

Specification

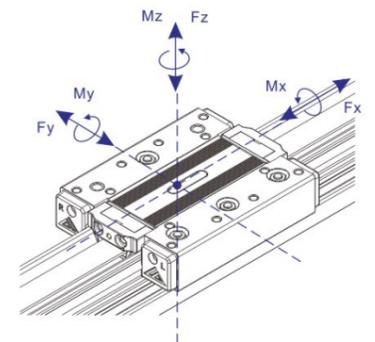
Spec	Repeatability (mm)	±0.05
	Lead (mm)	95
	Maximum Speed (mm/s)	2000
	Straightness	±0.05/300mm
Maximum Payload	Horizontal (kg)	35
	Vertical (kg)	12
Input Torque (N.m)		8.5
Length (mm)		6 meters (other lengths custom-made)
Width (mm)		60
Belt (mm)		PU-5M-20(wire)
Model		STD5M-20MM
Electrical Machinery		Stepping: 57/86 Servos: 200W/400W/750W

Sensor Layout



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Nominal load of actuator	Model	KHSD60K B3
	Fx max(N)	515
	Fy max(N)	1001
	Fz max(N)	1164
	Mx max(N.M)	32.6
	My max(N.M)	55.3
Mz max(N.M)	23.8	

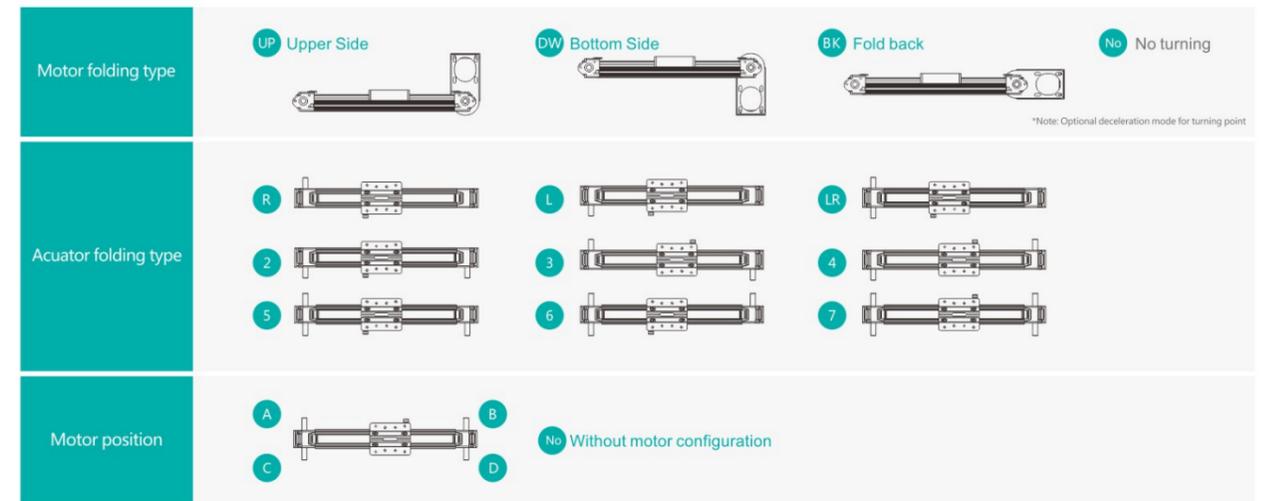
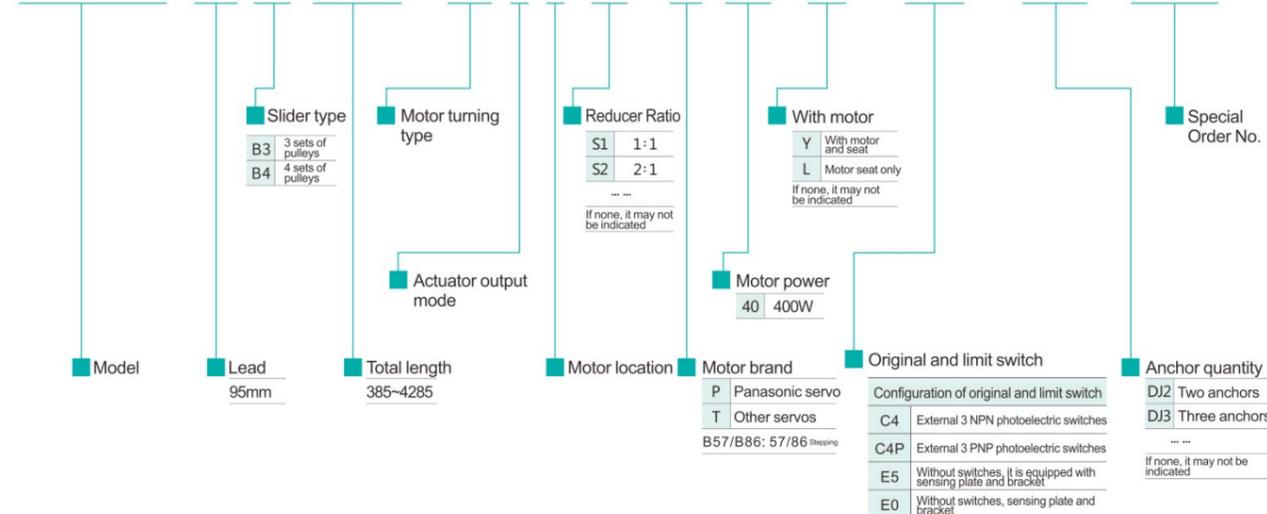


$$\text{Max.payload} = \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

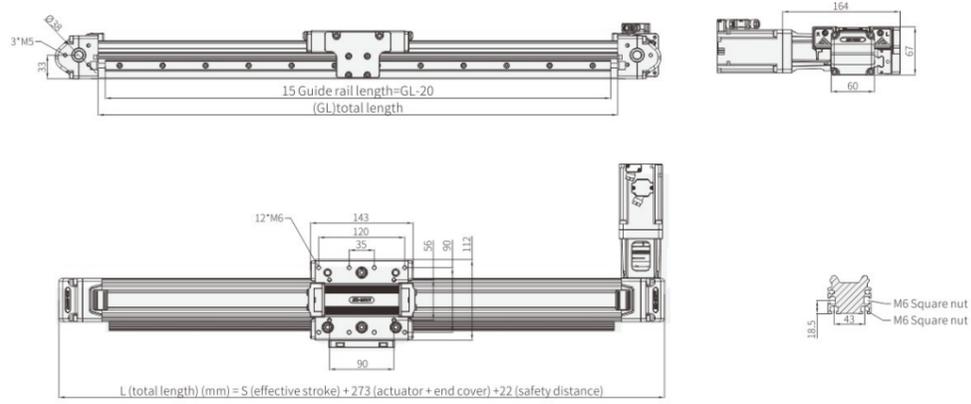
Ordering Method

KHSD60K 95 B3-4285 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



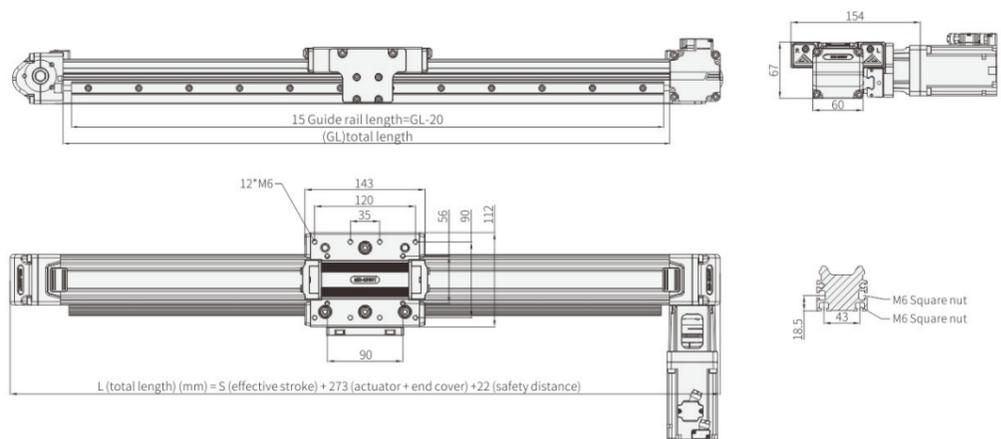
KHSD60K B3

Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	385	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285
KG	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2385	2485	2585	2685	2785	2885	2985	3085	3185	3285	3385	3485	3585	3685	3785	3885	3985	4085	4185	4285
KG	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3

Motor fold right



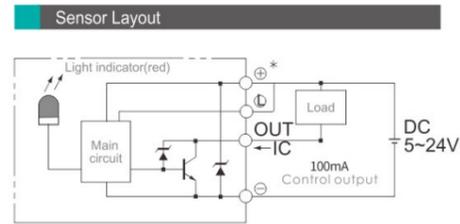
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	385	485	585	685	785	885	985	1085	1185	1285	1385	1485	1585	1685	1785	1885	1985	2085	2185	2285
KG	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2385	2485	2585	2685	2785	2885	2985	3085	3185	3285	3385	3485	3585	3685	3785	3885	3985	4085	4185	4285
KG	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3

MEMO

KHSD60K B4

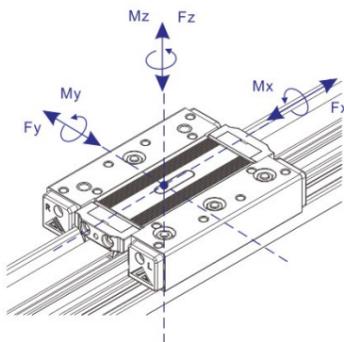
KHSD60K B4

Specification			
Spec	Repeatability (mm)	±0.05	
	Lead (mm)	95	
	Maximum Speed (mm/s)	2000	
	Straightness	±0.05/300mm	
	Maximum Payload	Horizontal (kg)	40
		Vertical (kg)	15
Input Torque (N.m)	8.5		
Length (mm)	6 meters (other lengths custom-made)		
Parts	Width (mm)	60	
	Belt (mm)	PU-5M-20(wire)	
	Model	STD5M-20MM	
	Electrical Machinery	Stepping: 57/86 Servos: 200W/400W/750W	



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Nominal load of actuator	Model	KHSD60K B4
	Fx max(N)	500
	Fy max(N)	1502
	Fz max(N)	1750
	Mx max(N.M)	49
	My max(N.M)	66.3
	Mz max(N.M)	53



$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

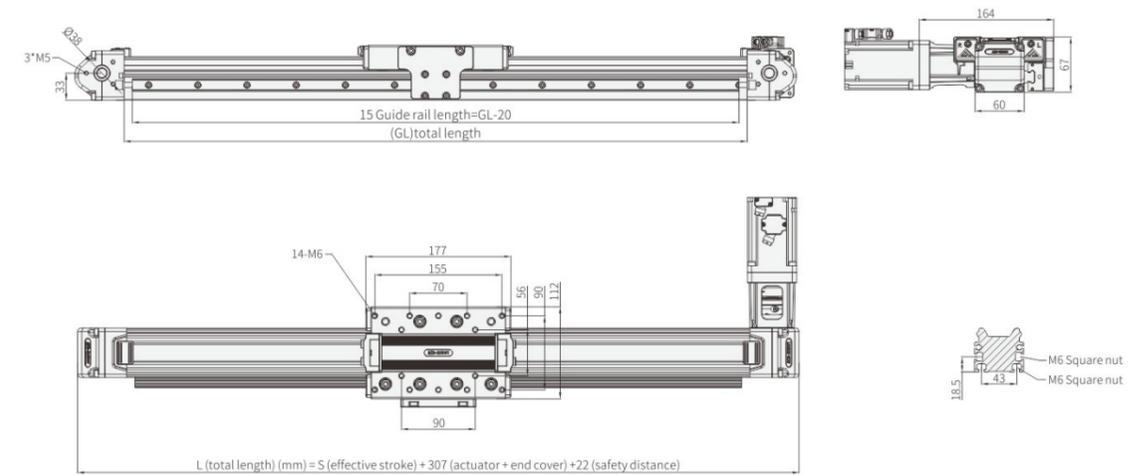
*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

Motor folding type	<p>UP Upper Side</p>	<p>DW Bottom Side</p>	<p>BK Fold back</p>	<p>No No turning</p>
Acuator folding type	<p>R</p>	<p>L</p>	<p>LR</p>	
Motor position	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>

*Note: Optional deceleration mode for turning point

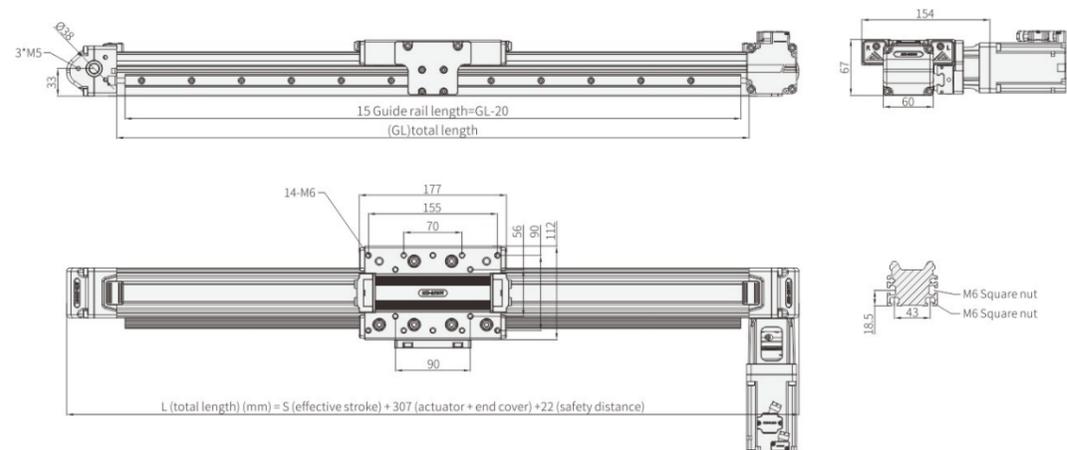
No Without motor configuration

Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320
KG	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2420	2520	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320
KG	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5

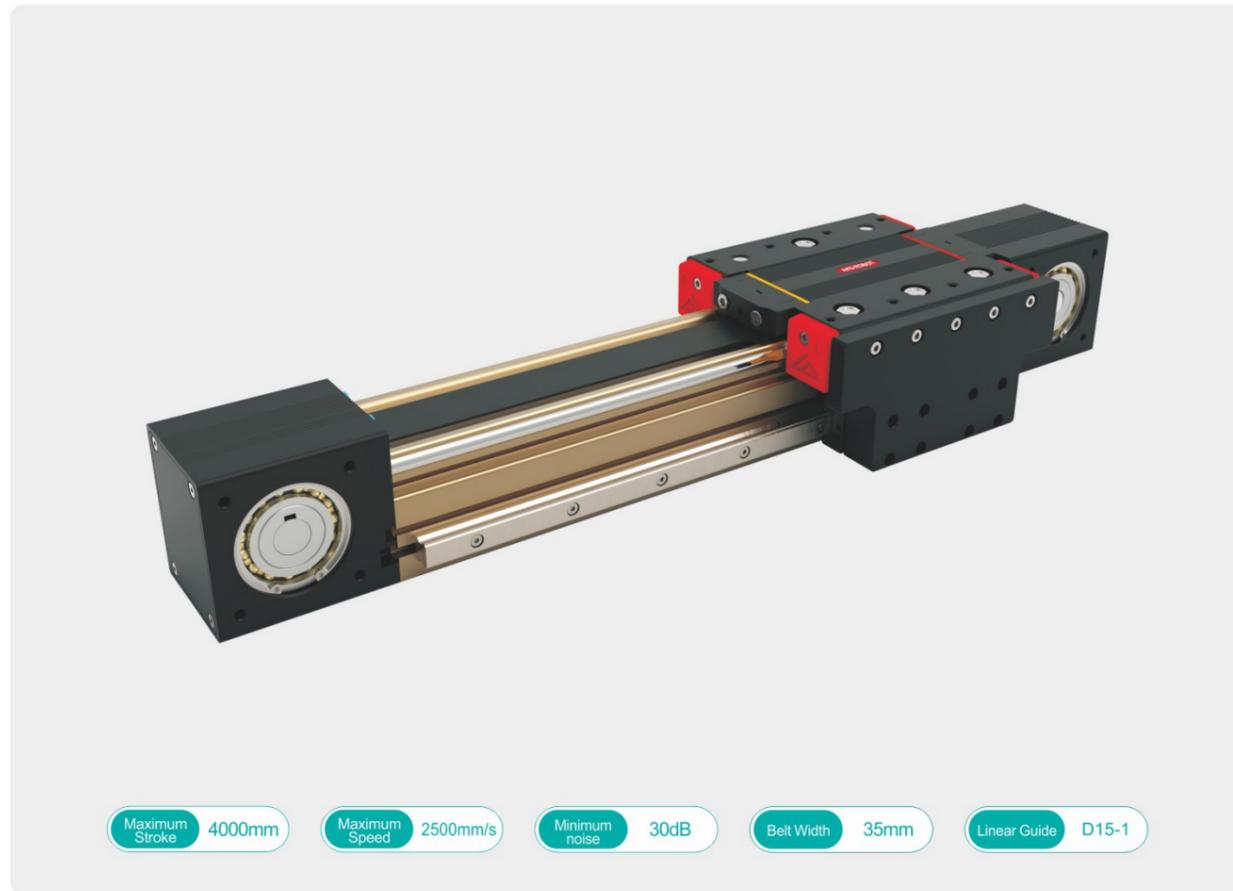
Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320
KG	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2420	2520	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320
KG	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5

KHSD80K

KHSD80K

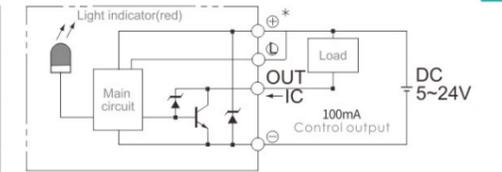


- Maximum Stroke 4000mm
- Maximum Speed 2500mm/s
- Minimum noise 30dB
- Belt Width 35mm
- Linear Guide D15-1

Specification

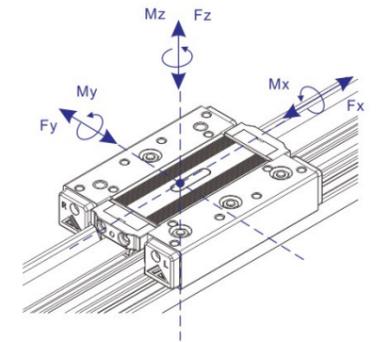
Spec	Repeatability (mm)	±0.05
	Lead (mm)	170
	Maximum Speed (mm/s)	2500
	Straightness	±0.05/300mm
	Maximum Payload	Horizontal (kg) 60 Vertical (kg) 20
Parts	Input Torque (N.m)	13.5
	Length (mm)	6 meters (other lengths custom-made)
	Width (mm)	80
	Belt (mm)	PU-5M-35(wire)
	Model	STD5M-34MM
Electrical Machinery	Stepping: 86 Servos: 400W/750W	

Sensor Layout



*Motor acceleration and deceleration set to 0.4 second
 *When using vertically, if the belt breaks, there is a risk of the load falling off.
 *The maximum reference speed may vary depending on factors such as actual load and travel. If you need the maximum speed, please contact the salesperson

Nominal load of actuator	Model	KHSD80K
	Fx max(N)	710
	Fy max(N)	1450
	Fz max(N)	1689
	Mx max(N.M)	63.7
	My max(N.M)	88.9
Mz max(N.M)	38.2	

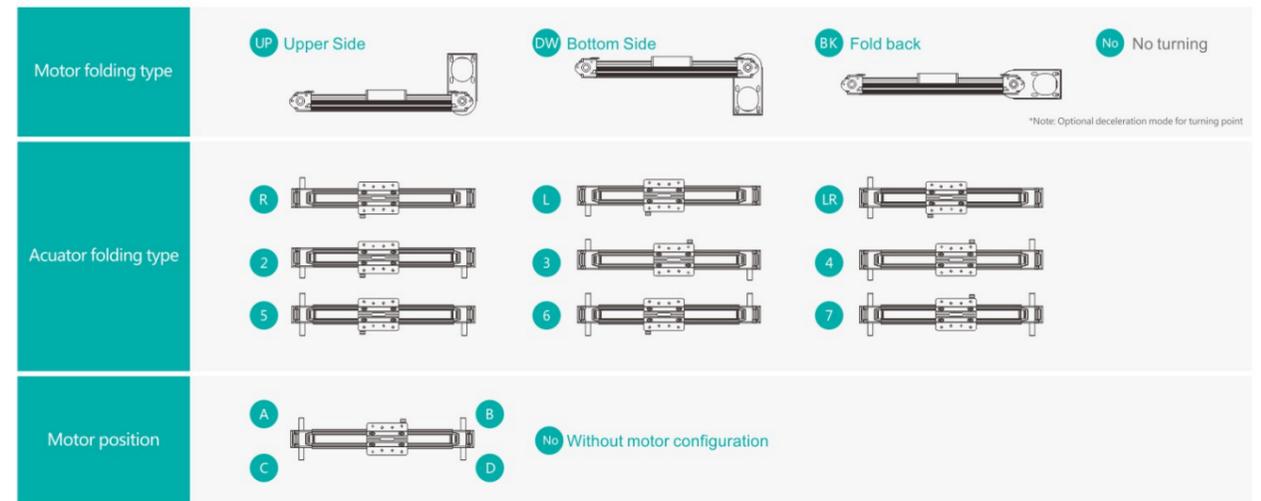
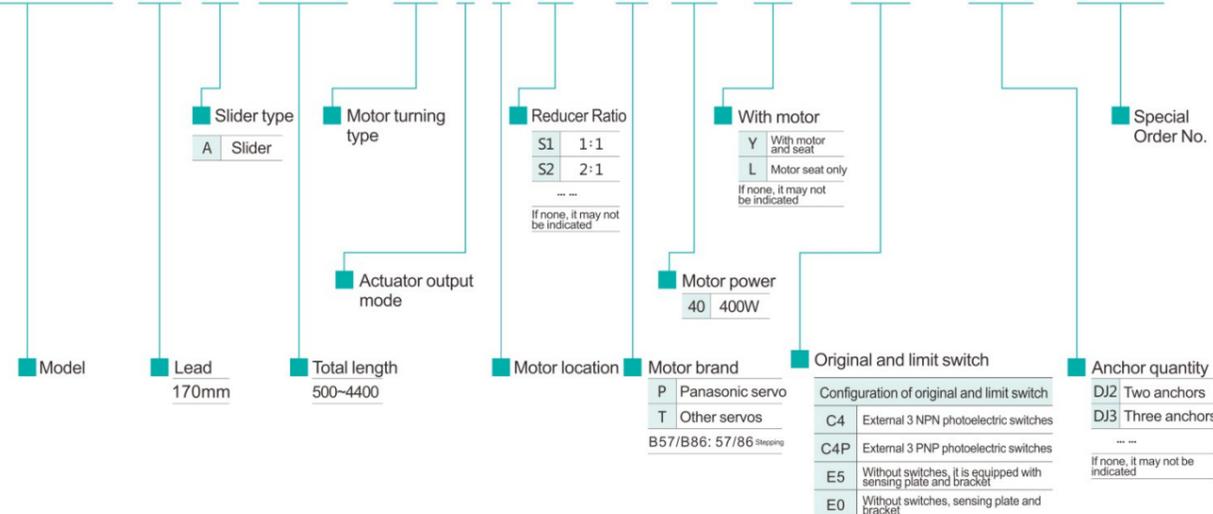


$$\text{Max.payload} = \frac{F_x}{F_{x \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

*The data represented by the torque table represents the center of gravity
 *Under normal use in accordance with the specifications of the catalog, the service life is 10,000 km
 *The use of inverted suspension cannot comply with standard specifications. If you have any requirements, please consult our business

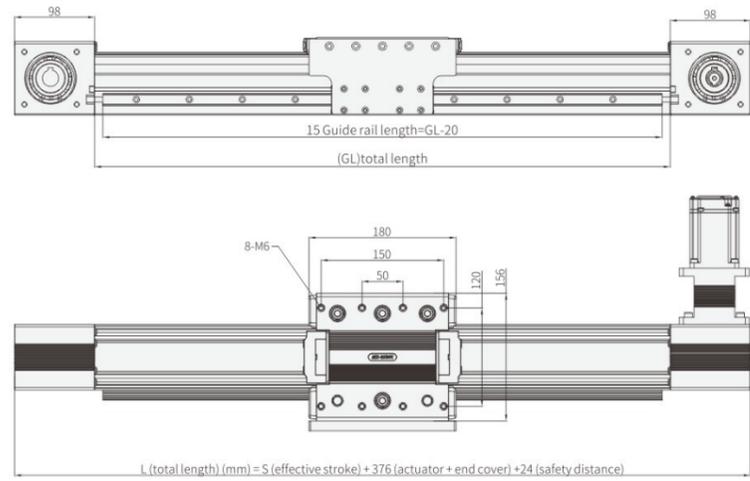
Ordering Method

KHSD80K 170 A-4400 - UP 7 A-S1 - P 40 - Y - E0 - DJ2 - D123



KHSD80K

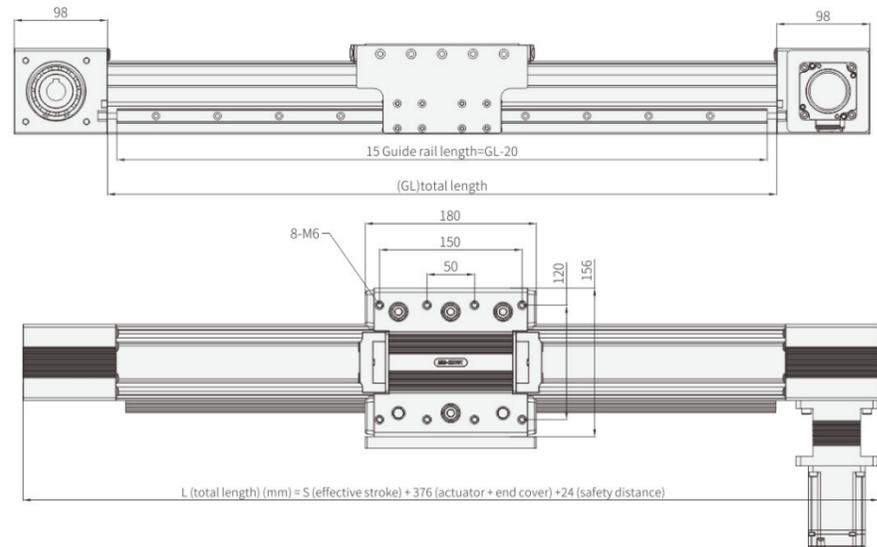
Motor fold left



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
KG	11	12	13	14	15	16	17	18	19	20	21	2	23	24	25	26	27	28	29	30

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400
KG	31	2	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Motor fold right



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
KG	11	12	13	14	15	16	17	18	19	20	21	2	23	24	25	26	27	28	29	30

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400
KG	31	2	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

MEMO