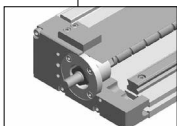
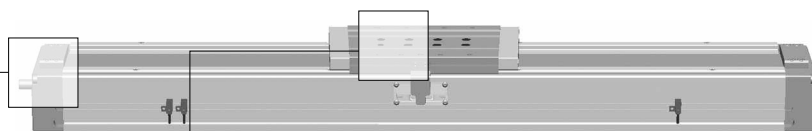
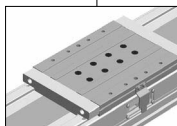


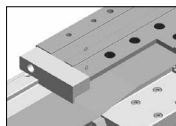
LCS series



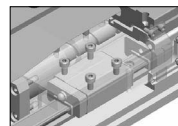
- Application with various axis combination is available



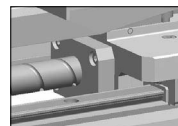
- Customized slider is available



- Built-in stainless steel cover for dust proof

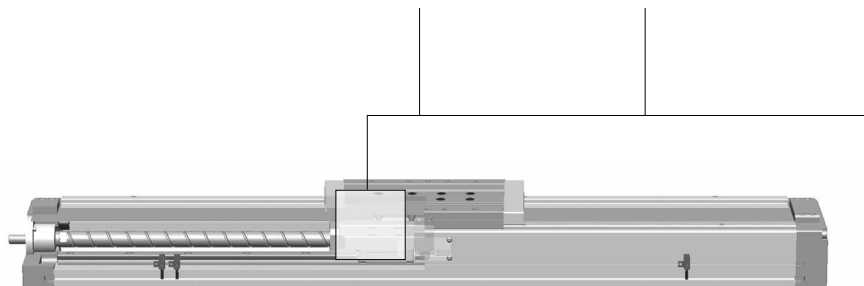


- LM guide with high stiffness and high precision



- Various types of ball screw are available

- Long life time

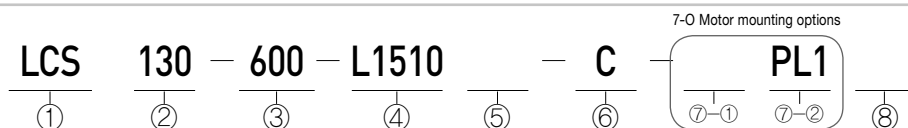




Features

- LM Guide & Ball screw type unit
- Clean & Cover type
- Compact design and high stiffness
- Various axis combination
- Customized options
- Easy maintenance

How to order



① Series

② Model

130 / 170

※ LM : Please contact us for customized LM

③ Stroke (Unit : mm)

Rolled type : 50 ~ 1500

Ground type - 130 : 50 ~ 850

Ground type - 170 : 50 ~ 1000

※ Please contact us for longer stroke than standard

④ Ball screw

Symbol	Ball screw		Model	
	Type		130	170
L1510	Rolled Ø15-10 Lead		●	
L1520	Rolled Ø15-20 Lead		●	
L2010	Rolled Ø20-10 Lead			●
L2020	Rolled Ø20-20 Lead			●
G1510	Ground Ø15-10 Lead		●	
G1520	Ground Ø15-20 Lead		●	
G2010	Ground Ø20-10 Lead			●
G2020	Ground Ø20-20 Lead			●

※ Please contact us for customized option

⑤ Color

Blank : White (outer)

L : White (outer) + LM raydent

S : White (outer) + Ball screw raydent

A : White (outer) +LM/Ball screw raydent

B : Black (outer)

BL : Black (outer) + LM raydent

BS : Black (outer) + Ball screw raydent

BA : Black (outer) + LM/Ball screw raydent

⑥ Sensor(dog included)

Blank : None

C : Photo sensor + Basic socket - Basic 3EA

CJ : C + Cable socket2M - Basic 3EA

Other than basic : C(J)(Q'ty) Example)C2,CJ2

⑦ Motor mounting

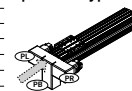
Blank : None

⑦-① Motor bracket for in-line type (including coupling)

Symbol	Type	Model	
	Motor	130	170
E1	100W	●	●
E2	200W/400W	●	●
E3	750W	●	●

⑦-② Motor bracket for parallel type

Symbol	Type	Model	
	Motor	130	170
PL1	100W	●	
PR1	100W	●	
PB1	100W	●	
PL2	200/400W	●	●
PR2	200/400W	●	●
PB2	200/400W	●	●
PL3	750W	●	●
PR3	750W	●	●
PB3	750W	●	●



Basic option : Mitsubishi, Yaskawa, Sanyo

⑧ Customized code

Sensor

Model	Item number	Sensor and connector
130	SX912-R-PL	
170		
		EE-SX912-R

Sensor dog

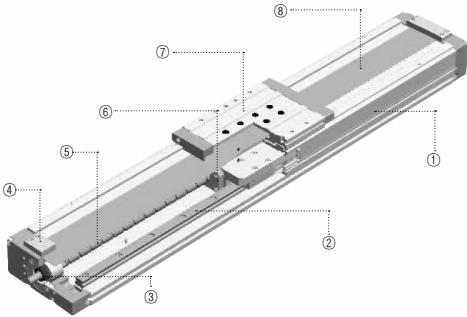
Model	Item number	Remarks
130	PDG-LC130-PL	EE-SX912-R only
170	PDG-LC170-PL	

LCS specifications

Specification	LCS130	LCS170
Max speed (mm/s)	1000	1000
Payload (kgf)	56 (horizontal), 27 (vertical)	120 (horizontal), 60 (vertical)
Stroke (mm)	Rolled : Max. 1500 Ground : Max. 850	Rolled : Max. 1600 Ground : Max. 2600
Repeatability (mm)	± 0.02	± 0.02
Ball screw / Lead (mm)	Ø15 / L10 (L20)	Ø20 / L10 (L20)
No load torque (Nm)	1	1
LM Guide	NO.15, 2 Rail 4 Block	NO.20, 2 Rail 4 Block
Basic weight (kgf)	7.1	13.1
Weight per 100mm stroke (kgf)	1	2
Motor (W)	400 ~ 750	400 ~ 750
Size (mm, W x H)	130 x 80	170 x 115

Note) Customized options such as motor, raydent and LM guide are available.

LCS structure



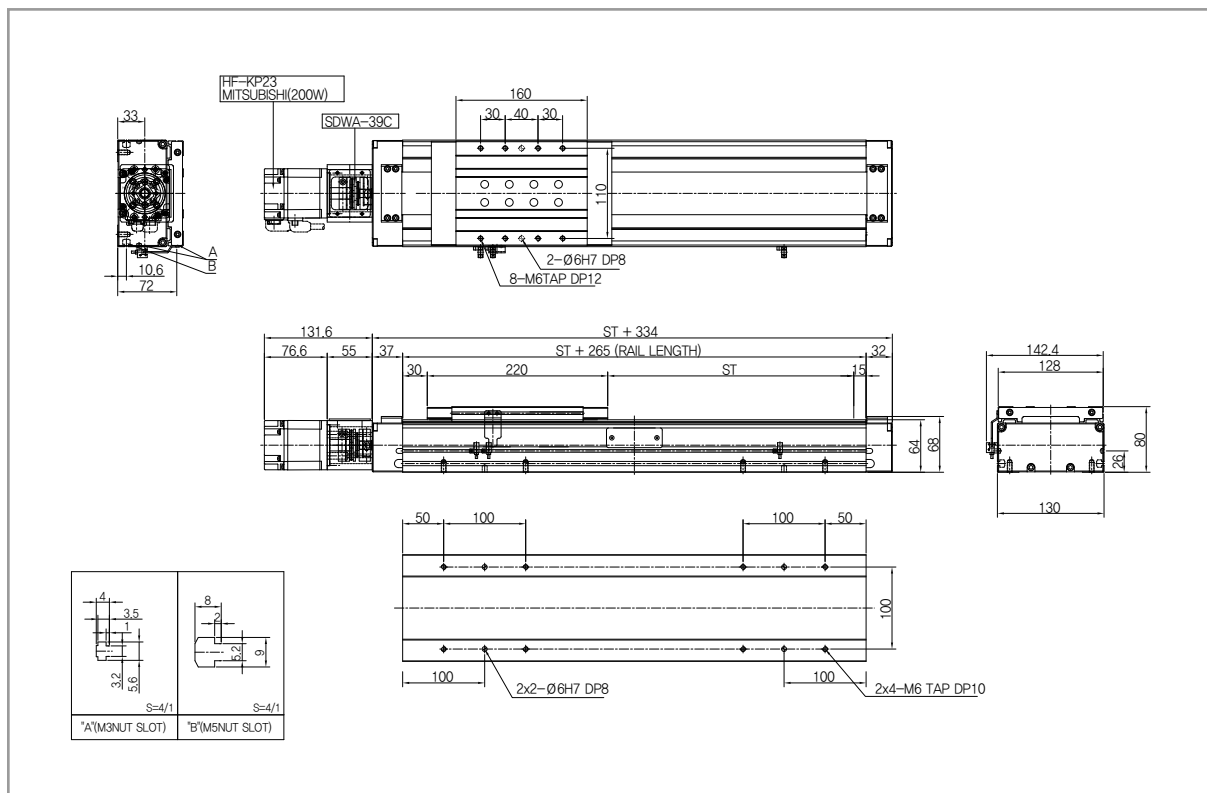
► Component list

No	Component name		Material	No	Component name	Material
1	Rail		Aluminum alloy	6	Ball screw	Carbon steel
2	Model	LM GUIDE	Bearing steel	7	Ball screw nut	Cr-Mo steel
	130	No.15 / 2RAIL 4BLOCK				
	170	No.20 / 2RAIL 4BLOCK				
3	Lock nut			8	Slide block	Aluminum alloy
4	Support unit			9	Steel cover	Stainless steel

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
LCS130	50~850	L10	500	200	80	20
		L20	1000	400	25	8
		L20	1000		40	15

LCS130

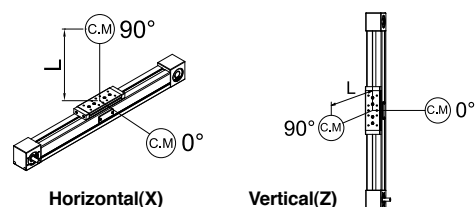


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	900	Lead (mm)	Motor (W)
Weight(kg)	9.3	10.3	11.3	12.3	13.3	14.3	15.3	16.3	17.3		
Max. Speed (mm/s)	500						480	380	310	L10	200
	1000						950	750	610	L20	(400)

Allowable overhang distance



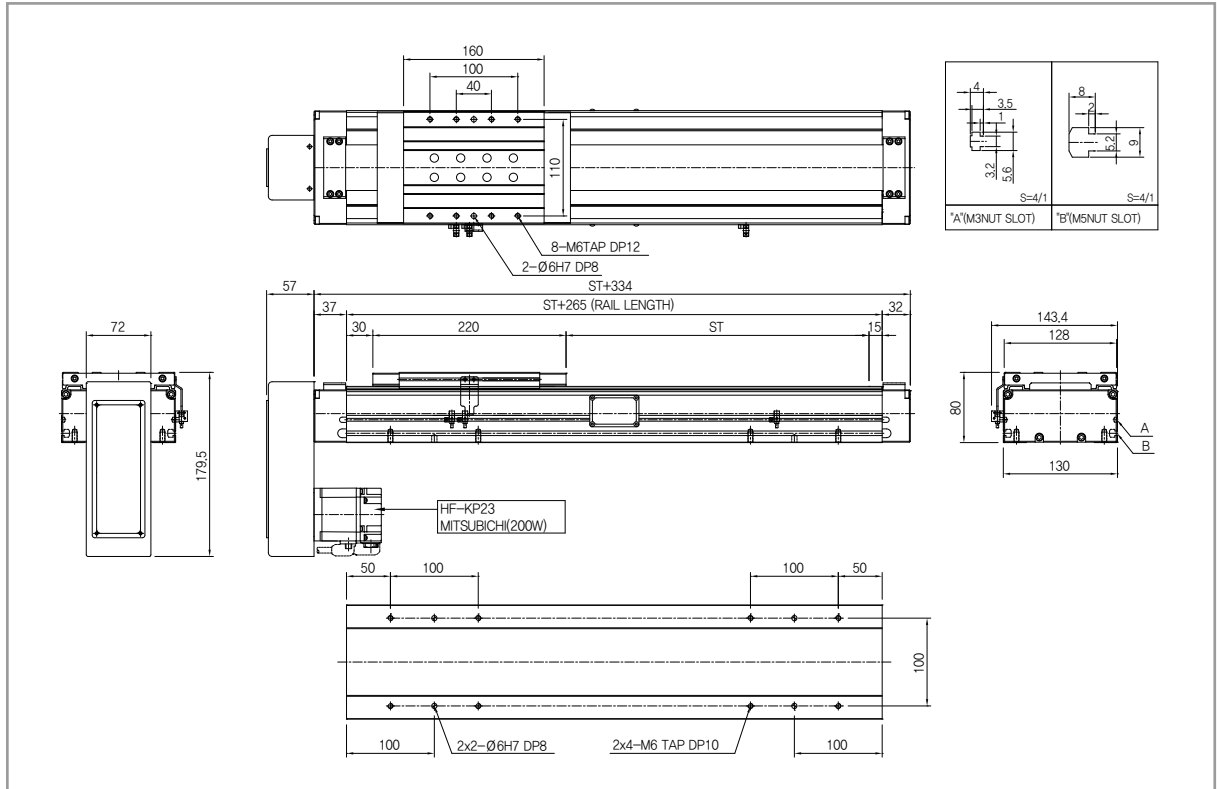
Direction		LCS130-L10		LCS130-L20		LCS130-L20(400W)	
		60 kg	30 kg	20 kg	10 kg	30 kg	15 kg
Horizontal (X)	0°	150 mm	300 mm	150 mm	300 mm	150 mm	300 mm
	90°	500 mm	1000 mm	800 mm	1500 mm	400 mm	800 mm
Vertical (Z)		20 kg	10 kg	8 kg	4 kg	12 kg	6 kg
	0°	150 mm	300 mm	150 mm	300 mm	150 mm	300 mm
	90°	300 mm	600 mm	600 mm	1000 mm	400 mm	600 mm

* This value is decided based on the lifetime formula of LM guide. (The lifetime of LM is 16,000 hours.)

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
LCS130-PB	50~850	L10	500	200	80	20
		L20	1000	400	25	8
		L20	1000		40	15

LCS130-PB

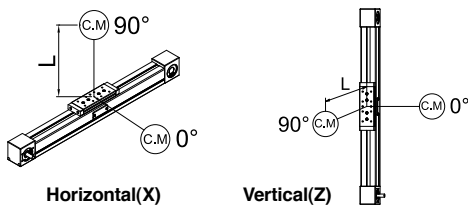


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	900	Lead (mm)	Motor (W)
Weight(kg)	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6		
Max. Speed (mm/s)	500						480	380	310	L10	200
	1000						950	750	610	L20	(400)

Allowable overhang distance



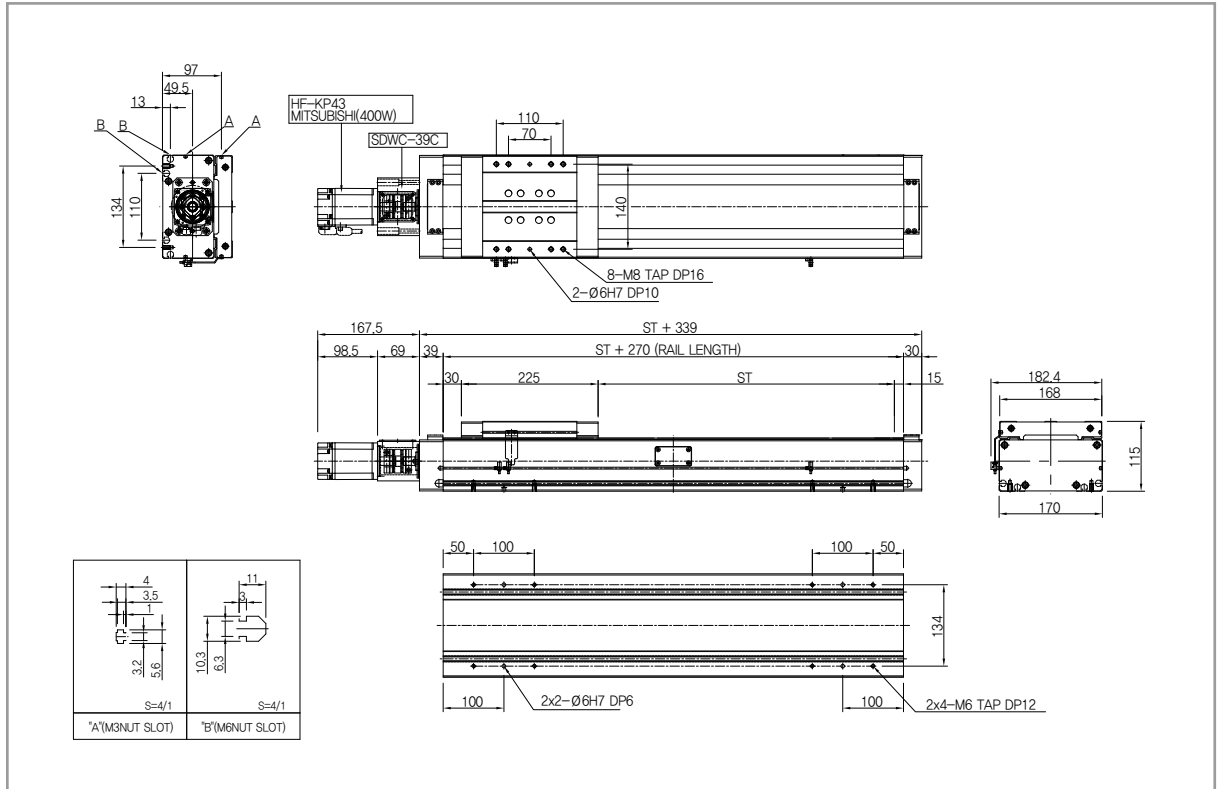
Direction	LCS130-L10		LCS130-L20		LCS130-L20(400W)	
	60 kg	30 kg	20 kg	10 kg	30 kg	15 kg
Horizontal (X)	0°	150 mm	300 mm	150 mm	300 mm	300 mm
	90°	500 mm	1000 mm	800 mm	1500 mm	800 mm
Vertical (Z)	0°	20 kg	10 kg	8 kg	4 kg	12 kg
	90°	150 mm	300 mm	150 mm	300 mm	300 mm
	90°	300 mm	600 mm	600 mm	1000 mm	400 mm

* This value is decided based on the lifetime formula of LM guide. (The lifetime of LM is 16,000 hours.)

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
LCS 170	100~1000	L10	500	400	120	30
		L20	1000		60	12
		L20	1000	750	100	23

LCS170

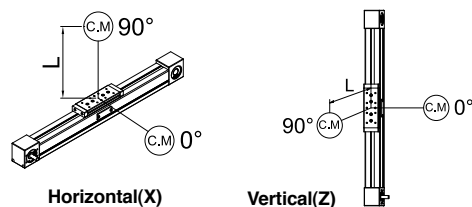


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	Lead (mm)	Motor (W)
Weight(kg)	17.1	19.1	21.1	23.1	25.1	27.1	29.1	31.1	33.1	35.1		
Max. Speed (mm/s)	500							440	360	300	L10	400
	1000							870	720	600	L20	(750)

Allowable overhang distance



Direction		LCS170-L10		LCS170-L20		LCS170-L20 (750W)	
Horizontal (X)		90 kg	45 kg	50 kg	25 kg	80 kg	40 kg
	0°	150 mm	350 mm	100 mm	200 mm	50 mm	150 mm
	90°	550 mm	800 mm	550 mm	1000 mm	450 mm	800 mm
Vertical (Z)		30 kg	15 kg	10 kg	5 kg	16 kg	8 kg
	0°	100 mm	200 mm	200 mm	400 mm	150 mm	300 mm
	90°	300 mm	550 mm	550 mm	1100 mm	300 mm	600 mm

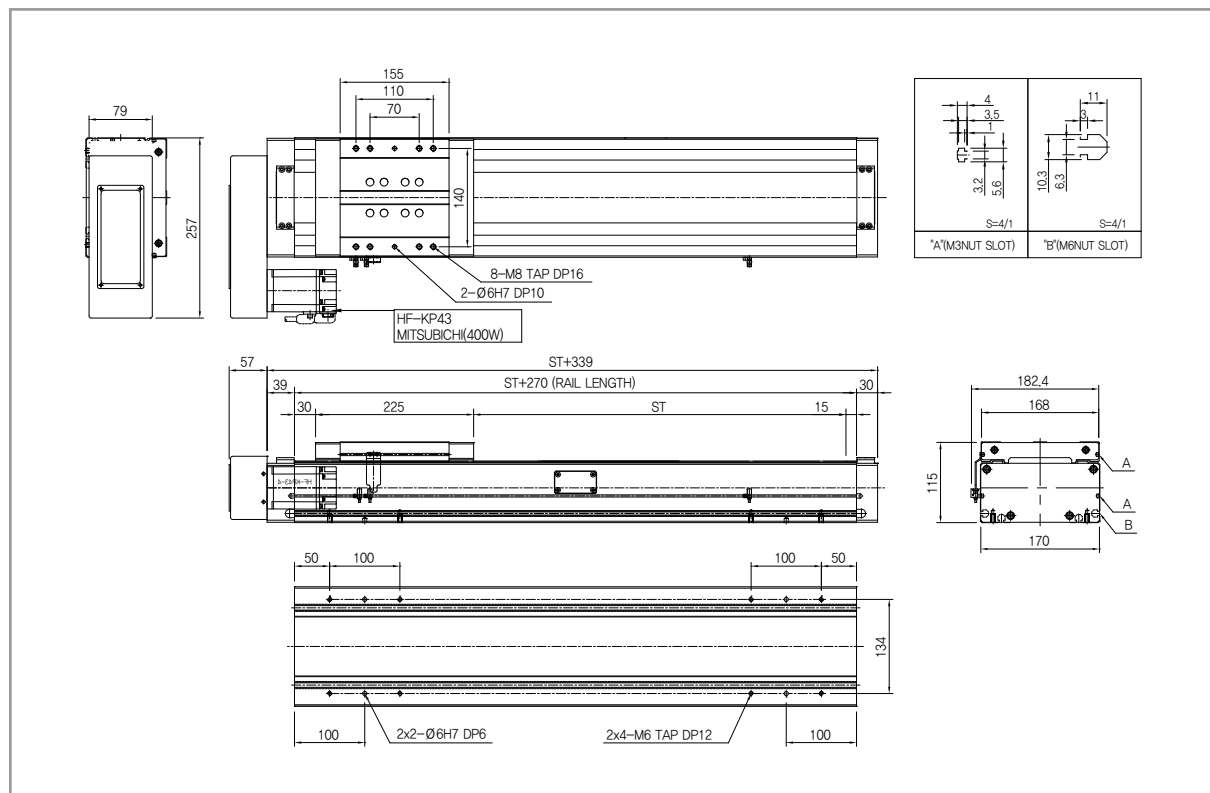
* This value is decided based on the lifetime formula of LM guide, (The lifetime of LM is 16,000 hours.)

LCS170-PR

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
LCS170-PR	50~1000	L10	500	400	120	30
		L20	1000		60	12
		L20	1000	750	100	23

LCS170-PR

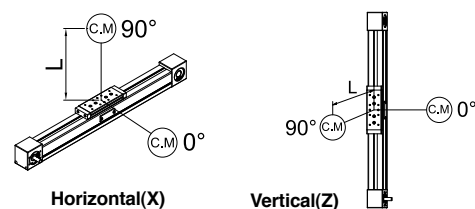


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	Lead (mm)	Motor (W)
Weight(kg)	18.7	20.7	22.7	24.7	26.7	28.7	30.7	32.7	34.7	36.7		
Max. Speed (mm/s)	500							440	360	300	L10	400
	1000							870	720	600	L20	(750)

Allowable overhang distance



Direction		LCS170-L10		LCS170-L20		LCS170-L20 (750W)	
Horizontal (X)		90 kg	45 kg	50 kg	25 kg	80 kg	40 kg
	0°	150 mm	350 mm	100 mm	200 mm	50 mm	150 mm
	90°	550 mm	800 mm	550 mm	1000 mm	450 mm	800 mm
Vertical (Z)		30 kg	15 kg	10 kg	5 kg	16 kg	8 kg
	0°	100 mm	200 mm	200 mm	400 mm	150 mm	300 mm
	90°	300 mm	550 mm	550 mm	1100 mm	300 mm	600 mm

* This value is decided based on the lifetime formula of LM guide, (The lifetime of LM is 16,000 hours.)

