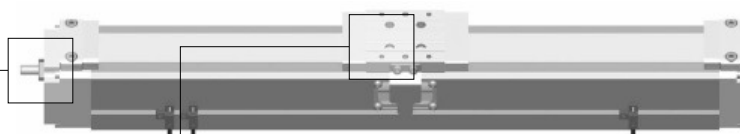
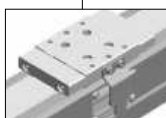


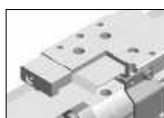
QS series



- Application with various axis combination is available
- Long life time



- Customized slider is available



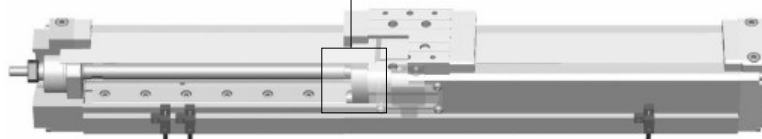
- Built-in stainless steel cover for dust proof



- LM guide with high stiffness and high precision



- Various types of ball screw are available

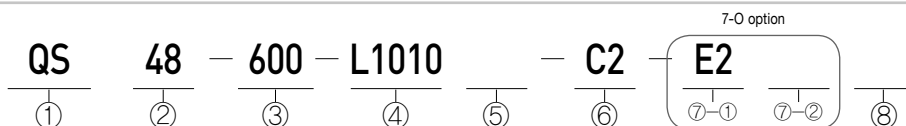




Features

- 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

48 / 70 / 88

※ LM : Please contact us for customized LM

③ Stroke (Unit : mm)

50 ~ 800

※ Please contact us for longer stroke than standard

④ Ball screw

Symbol	Ball screw type	Model		
		48	70	88
L1510	Rolled Ø15-10 lead		●	●
L1520	Rolled Ø15-20 lead		●	●
G1510	Ground Ø15-10 lead		●	●
G1520	Ground Ø15-20 lead		●	●
L1010	Rolled Ø10-10 lead	●		

※ Please contact us for customized ball screw type

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 socket 2M – Basic 3EA

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

⑦ Motor mounting

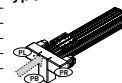
Blank : None

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

Type		Model		
Symbol	Motor	48	70	88
E1	100W	●	●	●
E2	200W/400W	●	●	●

⑦-② Motor bracket for parallel type

Type		Model		
Symbol	Motor	48	70	88
PL1	100W	●	●	●
PR1	100W	●	●	●
PB1	100W	●	●	●
PL2	200/400W	●	●	●
PR2	200/400W	●	●	●
PB2	200/400W	●	●	●



Basic option : Mitsubishi, Yaskawa, Sanyo

⑧ Customized code

Sensor

Model	Item number	Sensor and connector
48	SX912-R-PL	 EE-SX912-R
70		
88		

Sensor dog

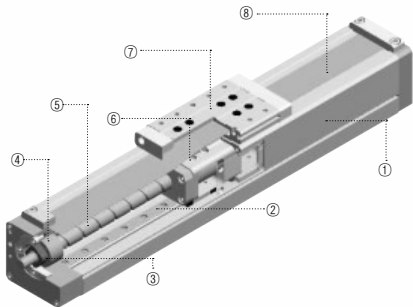
Model	Item number	Remarks
48	PDG-QS48-PL	EE-SX912-R only
70	PDG-QS70-PL	
88	PDG-QS88-PL	

QS specifications

Specification	QS48	QS70	QS88
Max speed (mm/s)	500	1000	1000
Payload (kgf)	15 (horizontal), 5 (vertical)	18 (horizontal), 8 (vertical)	28 (horizontal), 9 (vertical)
Stroke (mm)	Max. 800	Max. 800	Max. 800
Repeatability (mm)	± 0.02	± 0.02	± 0.02
Ball screw / Lead (mm)	Ø10 / L10	Ø15 / L10 (20L)	Ø15 / L10 (L20)
No load torque (Nm)	0.4	0.6	0.7
LM Guide	NO.12, 1 Rail 1 Block	NO.12, 1 Rail 2 Block	NO.15, 1 Rail 2 Block
Basic weight (kgf)	1.5	3.2	4.2
Weight per 100mm stroke (kgf)	0.4	0.6	0.8
Motor (W)	50 ~ 100	100 ~ 200	200
Size (mm, W x H)	48 x 63	70 x 81	88 x 87

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

QS structure



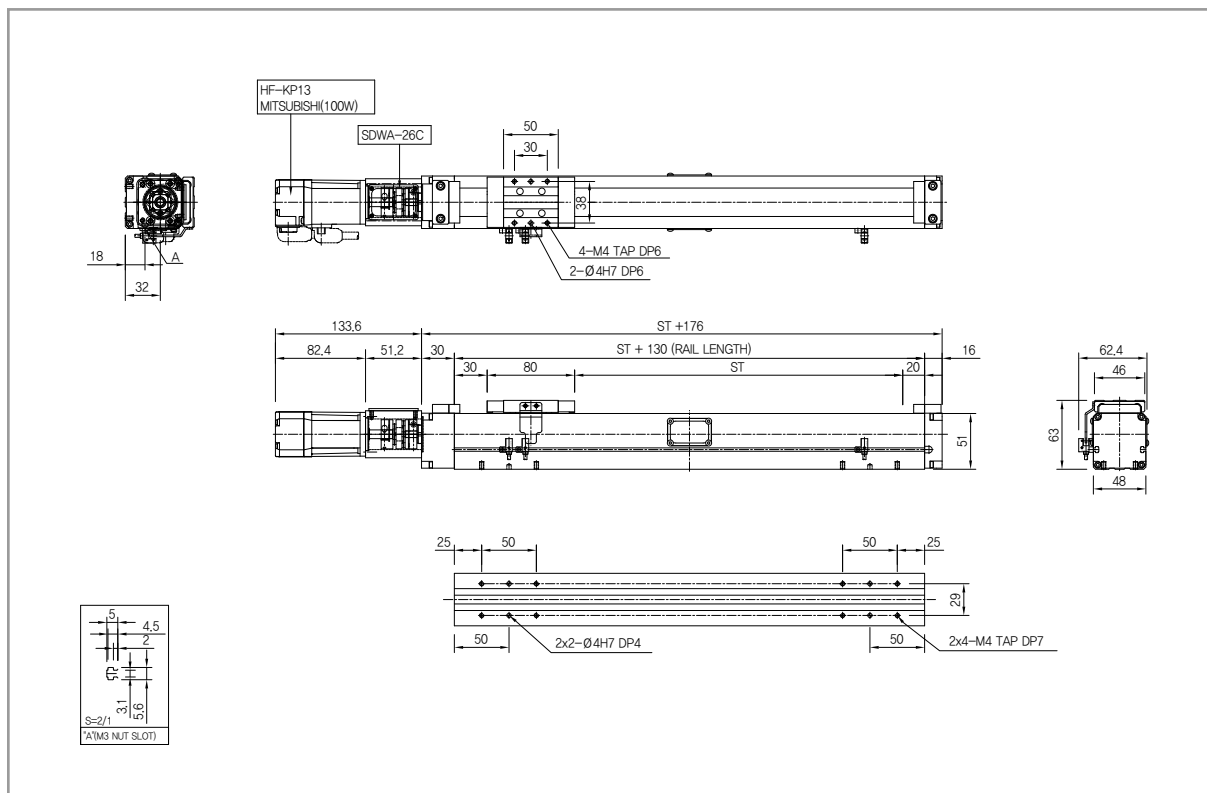
► Component list

No	Component name		Material	No	Component name	Material
1	Rail		Aluminum alloy	5	Ball screw	Carbon steel
2	Model	LM GUIDE		6	Ball screw nut	Cr-Mo steel
	48	No.12 / 1RAIL 1BLOCK				
	70	No.12 / 1RAIL 2BLOCK				
	88	No.15 / 1RAIL 2BLOCK				
3	Lock nut			7	Slide block	Aluminum alloy
4	Support unit			8	Steel cover	Stainless steel

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
QS48	100~500	L10	500	100	15	5

QS48

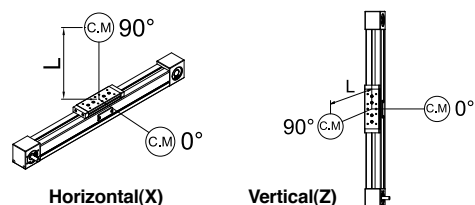


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	2.7	3.1	3.5	3.9	4.3	4.7	5.1	5.5		
Max. Speed (mm/s)	500					500	450	350	L10	100

Allowable overhang distance



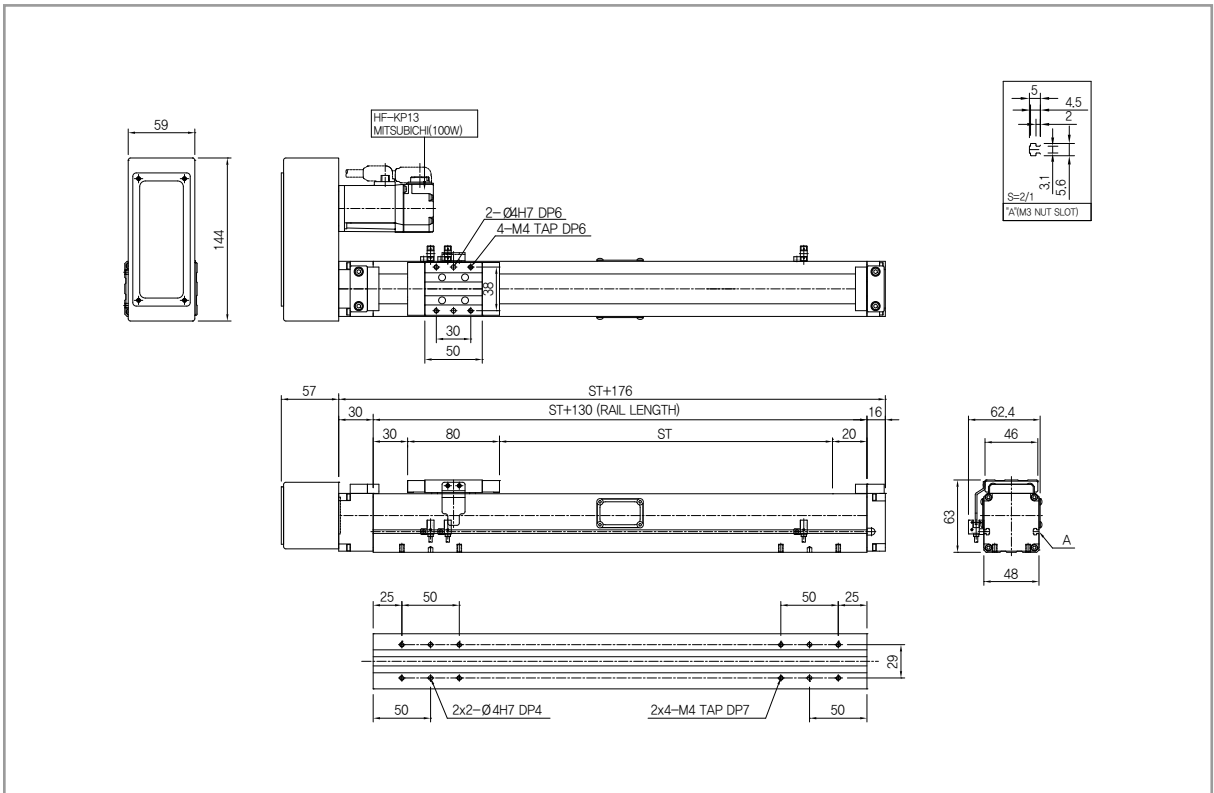
Direction		QS48-L10	
Horizontal (X)		12 kg	6 kg
	0°	10 mm	30 mm
	90°	100 mm	280 mm
Vertical (Z)		4 kg	2 kg
	0°	15 mm	50 mm
	90°	20 mm	60 mm

* 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
QS48-PL	50~800	L10	500	100	15	5

QS48-PL

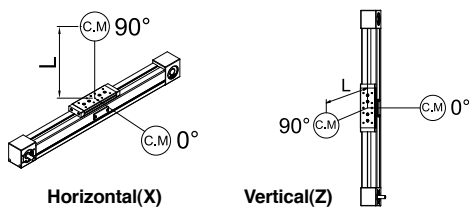


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2		
Max. Speed (mm/s)	500						450	350	L10	100

Allowable overhang distance



Direction		QS48-L10	
Horizontal (X)		12 kg	6 kg
	0°	10 mm	30 mm
	90°	100 mm	280 mm
Vertical (Z)		4 kg	2 kg
	0°	15 mm	50 mm
	90°	20 mm	60 mm

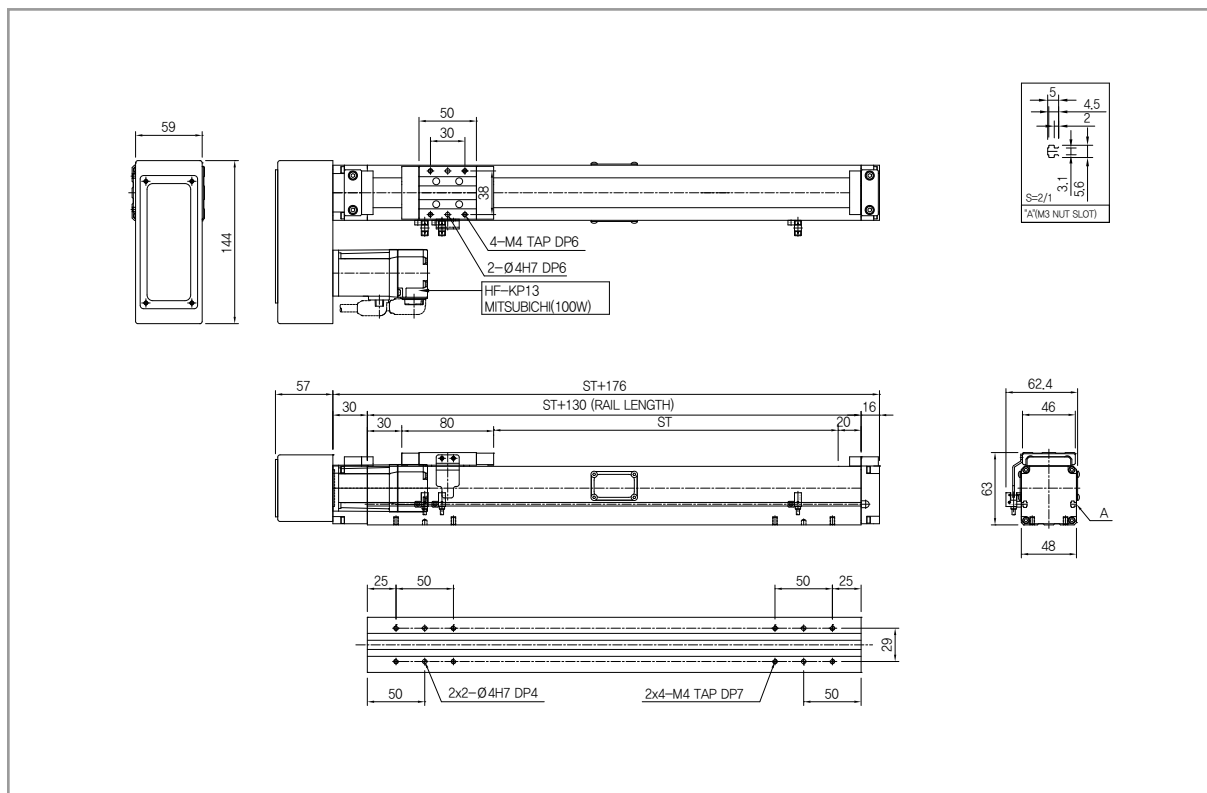
* This value is decided based on the lifetime formula of LM guide, (The lifetime of LM is 16,000 hours.)

QS48-PR

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
QS48-PR	50~800	L10	500	100	15	5

QS48-PR

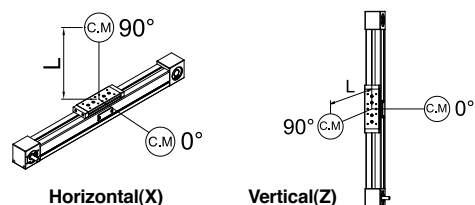


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2		
Max. Speed (mm/s)	500						450	350	L10	100

Allowable overhang distance



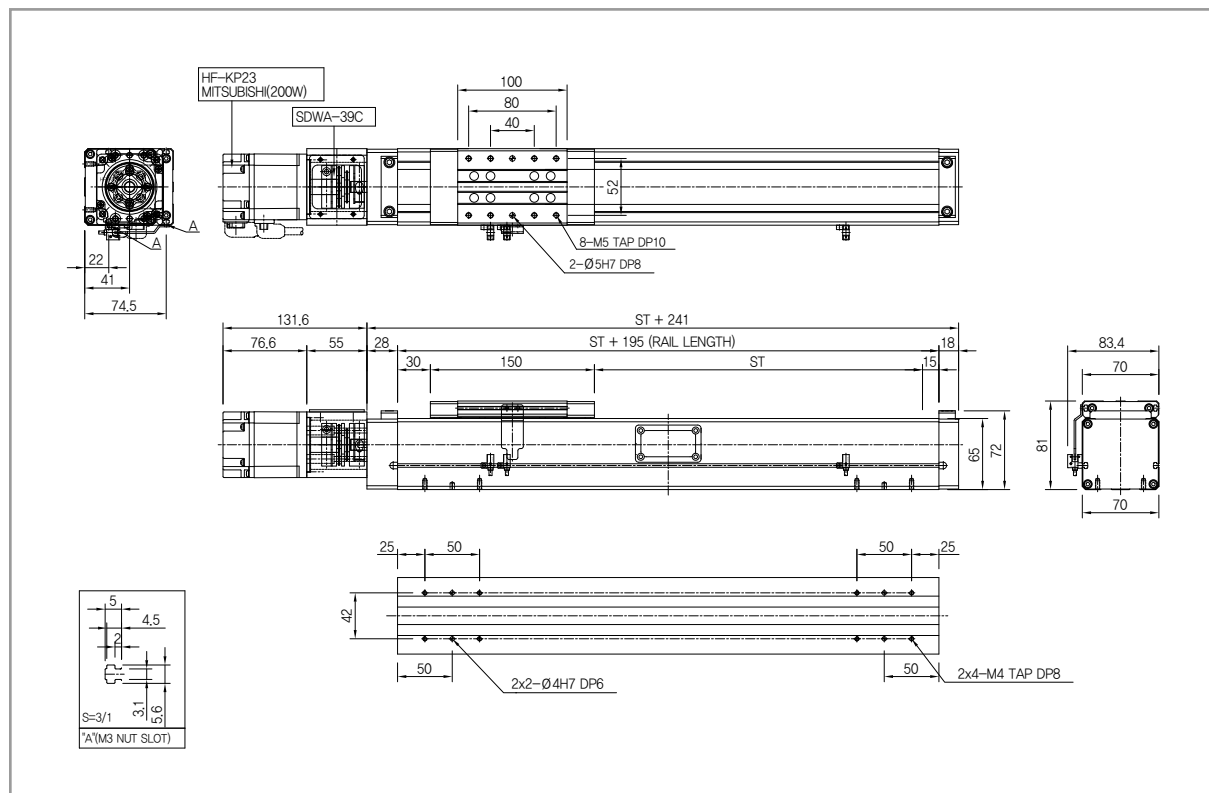
Direction		QS48-L10	
Horizontal (X)		12 kg	6 kg
	0°	10 mm	30 mm
	90°	100 mm	280 mm
Vertical (Z)		4 kg	2 kg
	0°	15 mm	50 mm
	90°	20 mm	60 mm

* 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
QS70	100~800	L10	500	100	20	10
		L20	1000	200	20	6

QS70

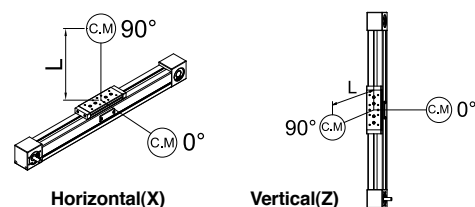


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2		
Max. Speed (mm/s)	500						460	370	L10	100
	1000						930	740	L20	200

Allowable overhang distance



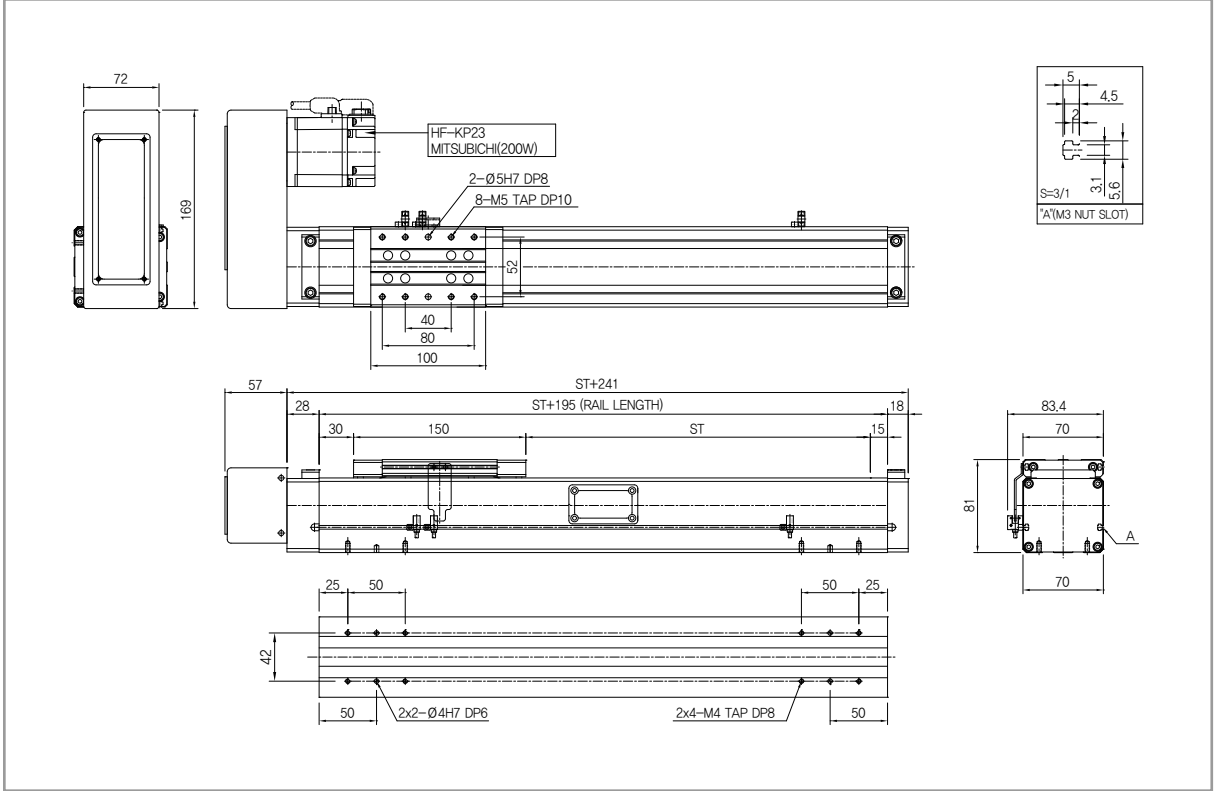
Direction		QS70-L10		QS70-L20	
Horizontal (X)		18 kg	9 kg	10 kg	5 kg
	0°	10 mm	25 mm	12 mm	30 mm
	90°	470 mm	650 mm	400 mm	650 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	35 mm	140 mm	40 mm	150 mm
	90°	35 mm	130 mm	70 mm	150 mm

* 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
QS70-PL	50~800	L10	500	100	20	10
		L20	1000	200	20	6

QS70-PL

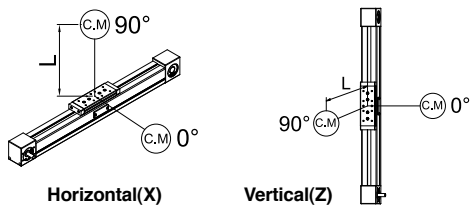


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	6.3	6.9	7.5	8.1	8.7	9.3	9.9	10.5		
Max. Speed (mm/s)	500						460	370	L10	100
	1000						930	740	L20	200

Allowable overhang distance



Direction		QS70-L10		QS70-L20	
Horizontal (X)		18 kg	9 kg	10 kg	5 kg
	0°	10 mm	25 mm	12 mm	30 mm
	90°	470 mm	650 mm	400 mm	650 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	35 mm	140 mm	40 mm	150 mm
	90°	35 mm	130 mm	70 mm	150 mm

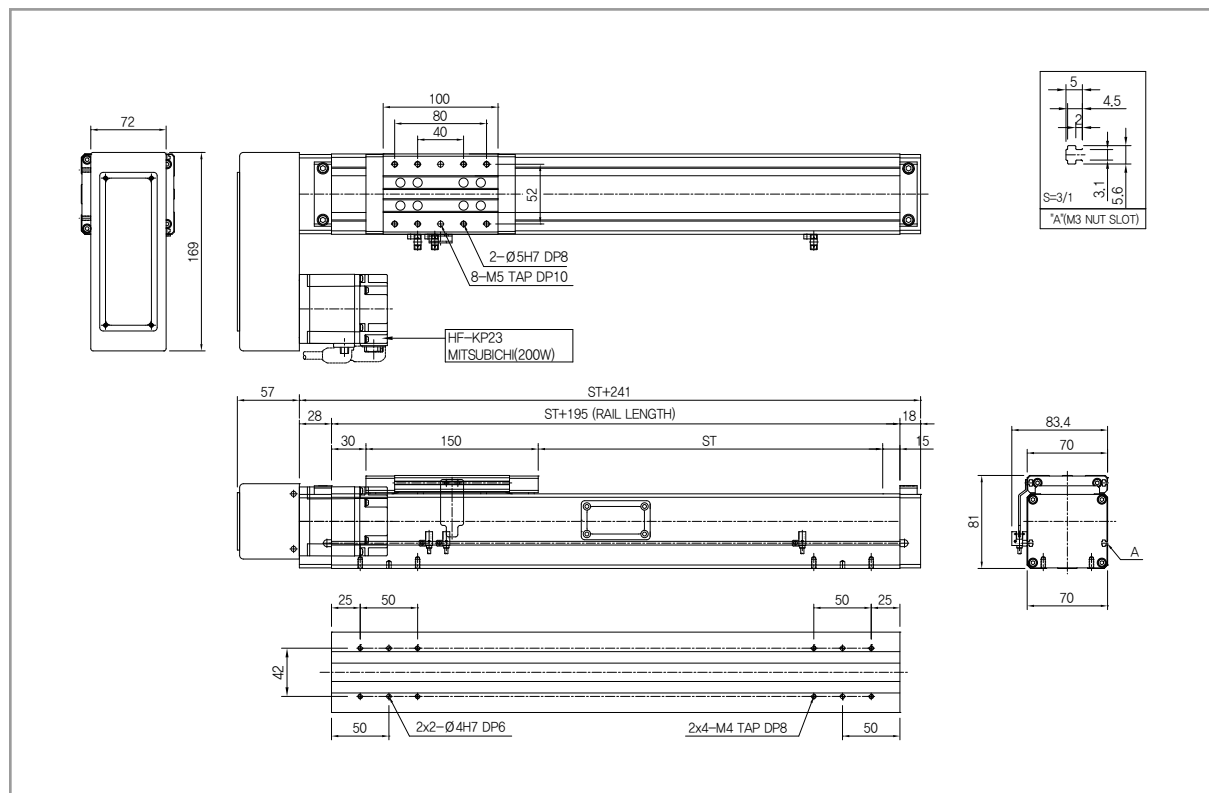
* This value is decided based on the lifetime formula of LM guide, (The lifetime of LM is 16,000 hours.)

QS70-PR

Basic specifications

Model	Stroke (mm)	Lead (mm)	Speed (mm/s)	Motor (W)	Max. Payload(kg)	
					Horizontal	Vertical
QS70-PR	50~800	L10	500	100	20	10
		L20	1000	200	20	6

QS70-PR

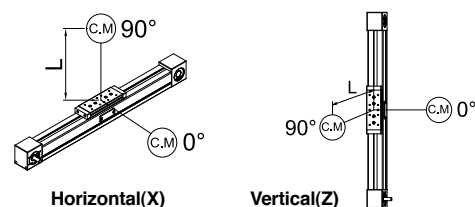


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	6.3	6.9	7.5	8.1	8.7	9.3	9.9	10.5		
Max. Speed (mm/s)	500						460	370	L10	100
	1000						930	740	L20	200

Allowable overhang distance



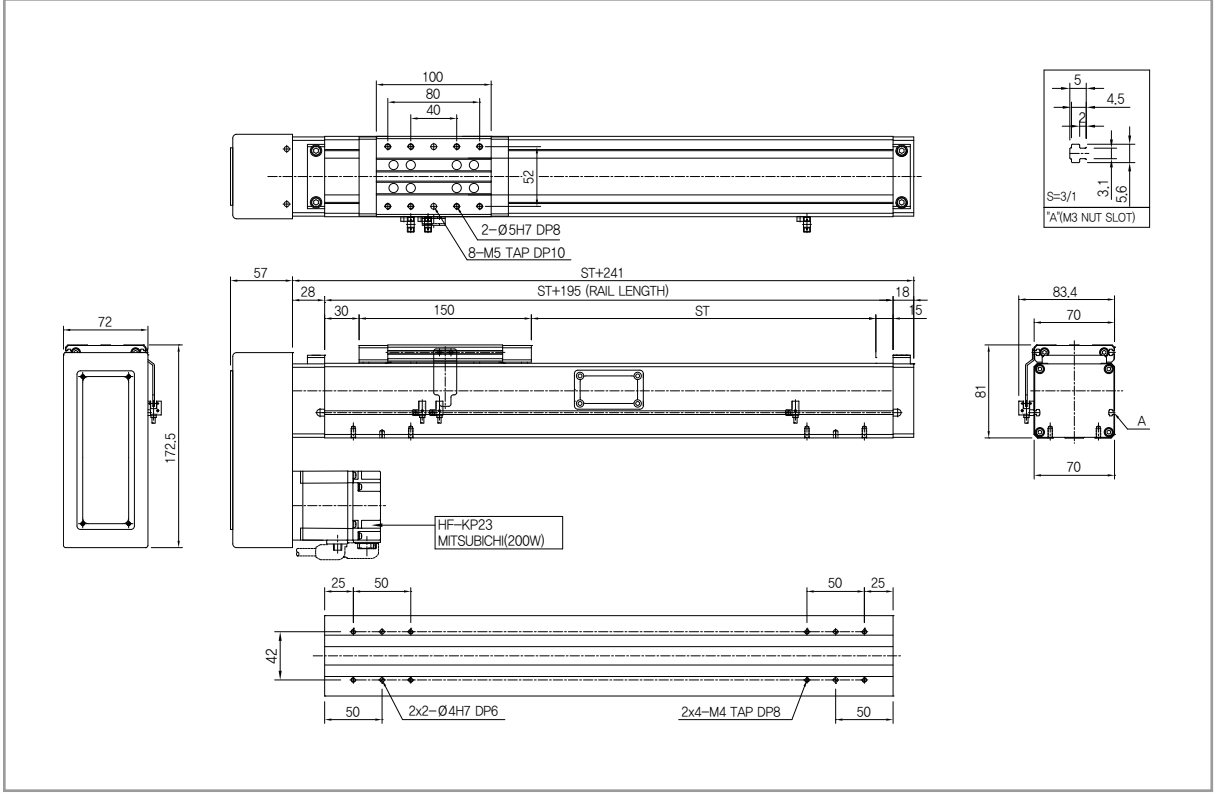
Direction		QS70-L10		QS70-L20	
Horizontal (X)		18 kg	9 kg	10 kg	5 kg
	0°	10 mm	25 mm	12 mm	30 mm
	90°	470 mm	650 mm	400 mm	650 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	35 mm	140 mm	40 mm	150 mm
	90°	35 mm	130 mm	70 mm	150 mm

* 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
QS70-PB	50~800	L10	500	100	20	10
		L20	1000	200	20	6

QS70-PB

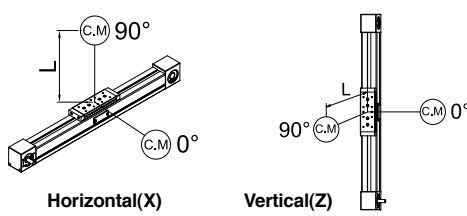


- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	6.3	6.9	7.5	8.1	8.7	9.3	9.9	10.5		
Max. Speed (mm/s)	500						460	370	L10	100
	1000						930	740	L20	200

Allowable overhang distance



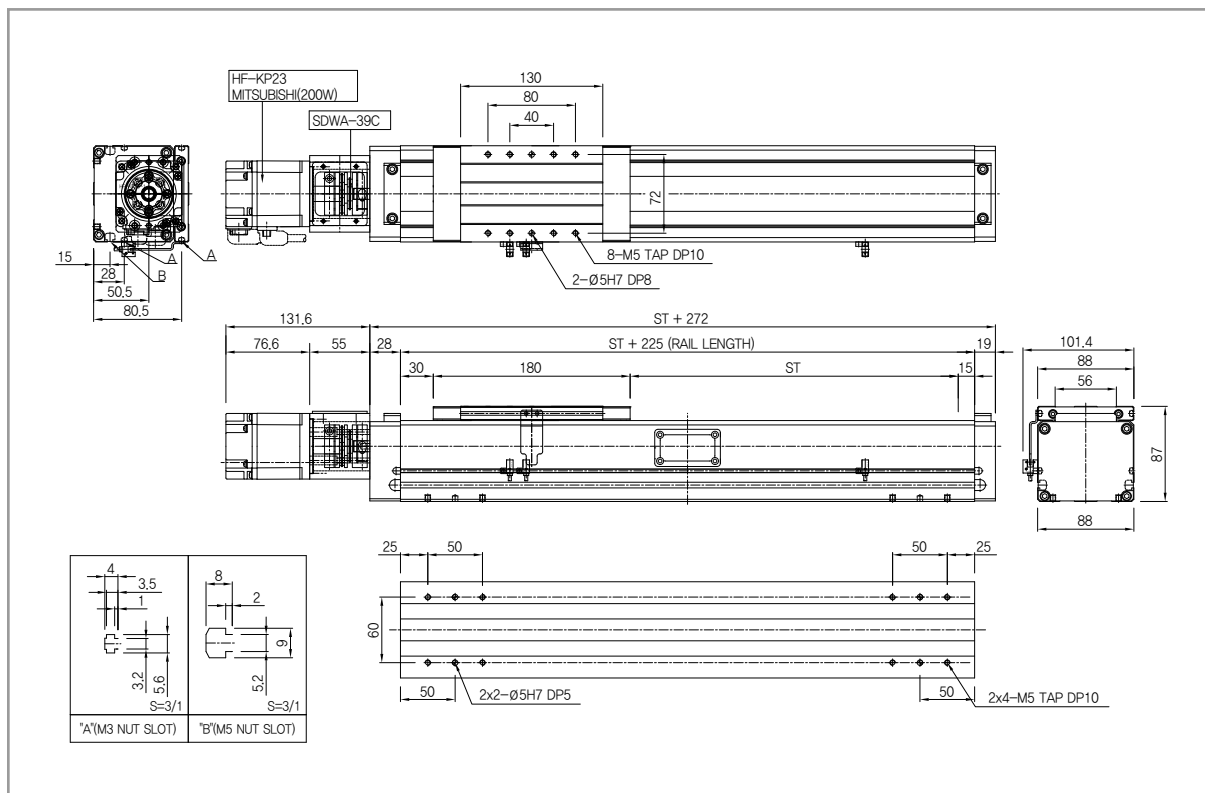
Direction		QS70-L10		QS70-L20	
Horizontal (X)		18 kg	9 kg	10 kg	5 kg
	0°	10 mm	25 mm	12 mm	30 mm
	90°	470 mm	650 mm	400 mm	650 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	35 mm	140 mm	40 mm	150 mm
	90°	35 mm	130 mm	70 mm	150 mm

* 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
QS88	100~800	L10	500	200	35	15
		L20	1000		30	8

QS88



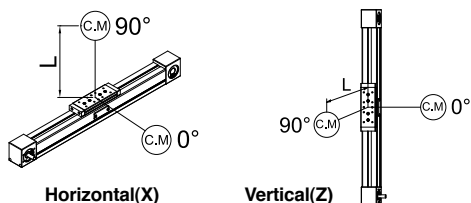
- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	6.2	7.0	7.8	8.6	9.4	10.2	11.0	11.8		
Max. Speed (mm/s)	500						440	350	L10	200
	1000						890	700	L20	

Note) The weight of motor and reducer is not included.

Allowable overhang distance



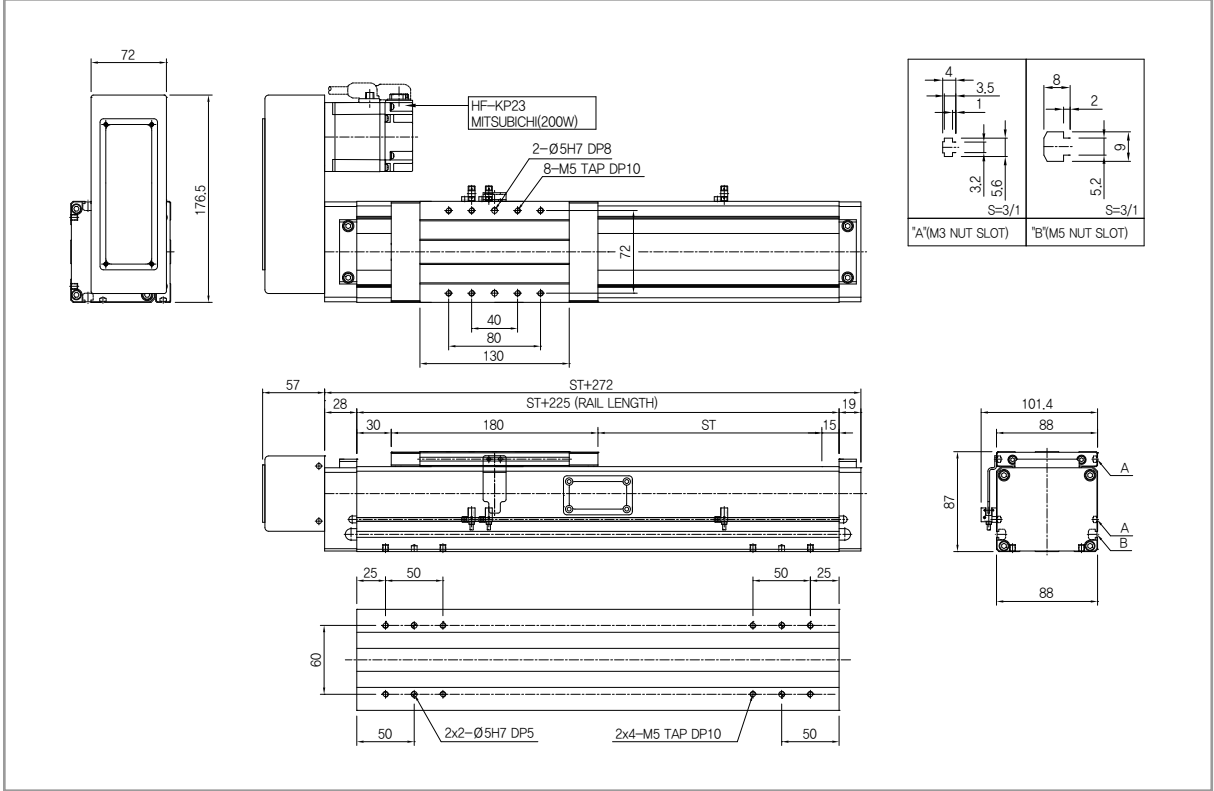
Direction		QS88-L10		QS88-L20	
Horizontal (X)		30 kg	15 kg	20 kg	10 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	200 mm	750 mm	150 mm	490 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	250 mm	470 mm	270 mm	500 mm

* 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
QS88-PL	50~800	L10	500	200	35	15
		L20	1000		30	8

QS88-PL



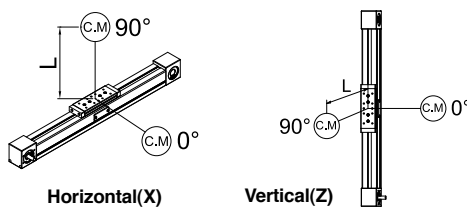
- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	7.5	8.3	9.1	9.9	10.7	11.5	12.3	13.1		
Max. Speed (mm/s)	500						440	350	L10	200
	1000						890	700	L20	

Note) The weight of motor and reducer is not included.

Allowable overhang distance



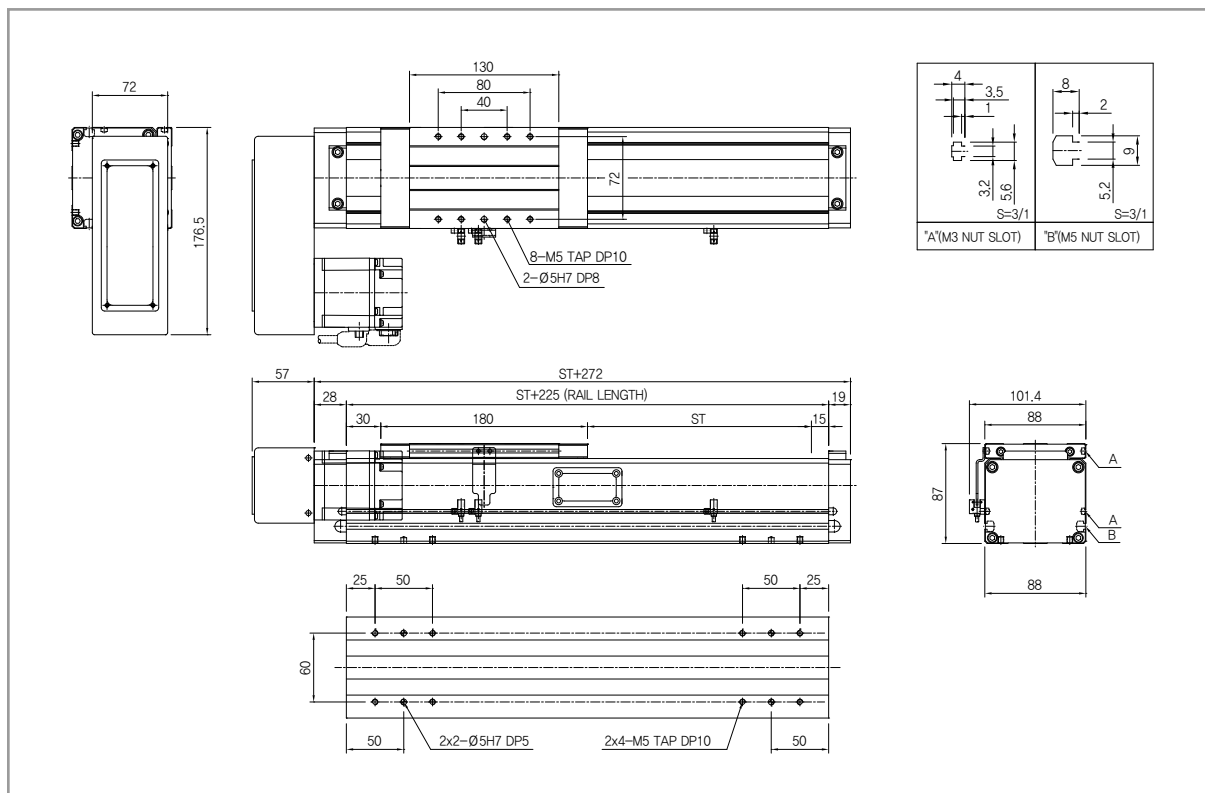
Direction		QS88-L10		QS88-L20	
Horizontal (X)	0°	30 kg	15 kg	20 kg	10 kg
	90°	25 mm	50 mm	25 mm	50 mm
Vertical (Z)	0°	200 mm	750 mm	150 mm	490 mm
	90°	10 kg	5 kg	6 kg	3 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	250 mm	470 mm	270 mm	500 mm

* 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
QS88-PR	50~800	L10	500	200	35	15
		L20	1000		30	8

QS88-PR



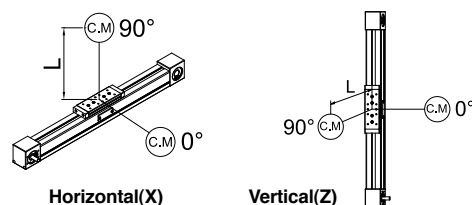
- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	7.5	8.3	9.1	9.9	10.7	11.5	12.3	13.1		
Max. Speed (mm/s)	500						440	350	L10	200
	1000						890	700	L20	

Note) The weight of motor and reducer is not included.

Allowable overhang distance



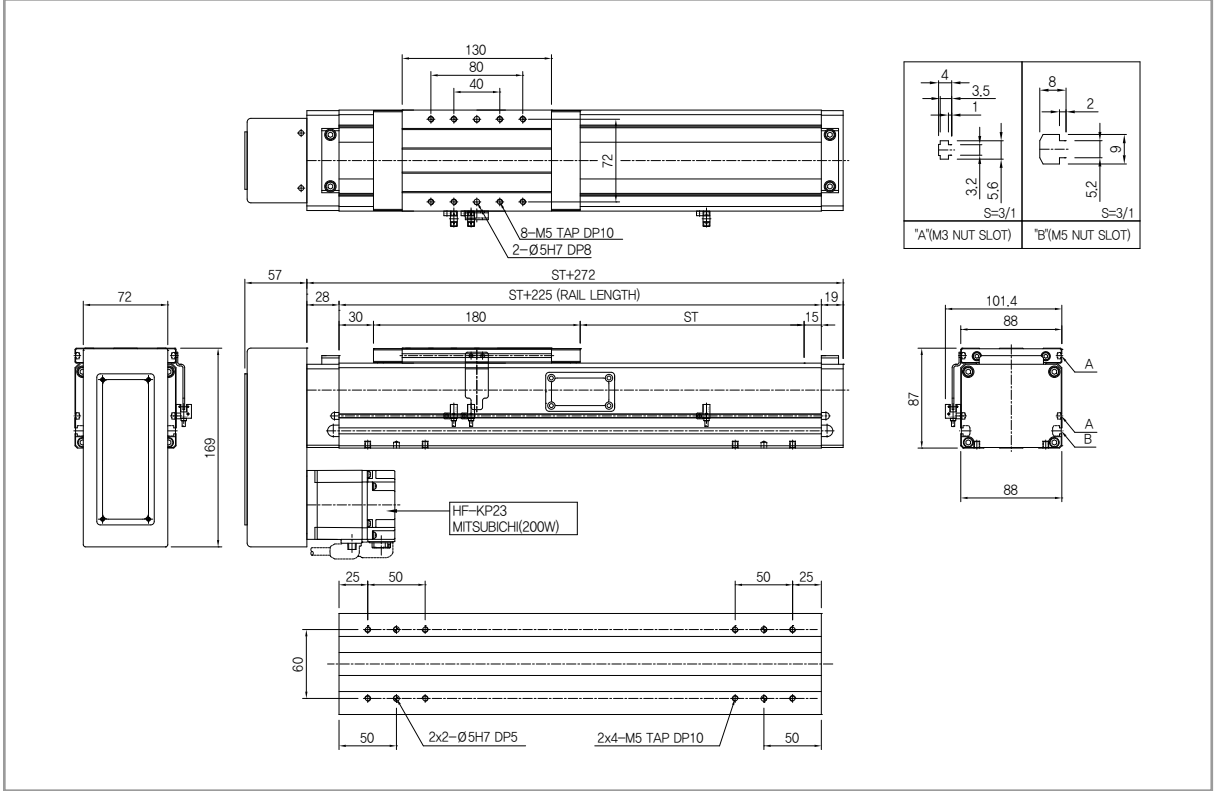
Direction		QS88-L10		QS88-L20	
Horizontal (X)		30 kg	15 kg	20 kg	10 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	200 mm	750 mm	150 mm	490 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	250 mm	470 mm	270 mm	500 mm

* 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
QS88-PB	50~800	L10	500	200	35	15
		L20	1000		30	8

QS88-PB



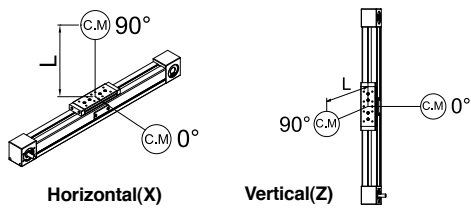
- Please contact us to change sensor or motor options.
- Customized tap or pin pitch on the bottom is available.

Weight & speed for each stroke

Stroke(mm)	100	200	300	400	500	600	700	800	Lead (mm)	Motor (W)
Weight(kg)	7.5	8.3	9.1	9.9	10.7	11.5	12.3	13.1		
Max. Speed (mm/s)	500						440	350	L10	200
	1000						890	700	L20	

Note) The weight of motor and reducer is not included.

Allowable overhang distance



Direction		QS88-L10		QS88-L20	
Horizontal (X)		30 kg	15 kg	20 kg	10 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	200 mm	750 mm	150 mm	490 mm
Vertical (Z)		10 kg	5 kg	6 kg	3 kg
	0°	25 mm	50 mm	25 mm	50 mm
	90°	250 mm	470 mm	270 mm	500 mm

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