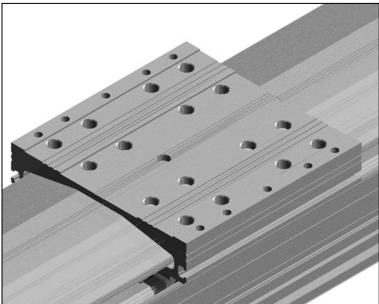
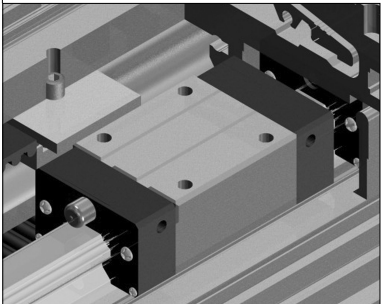


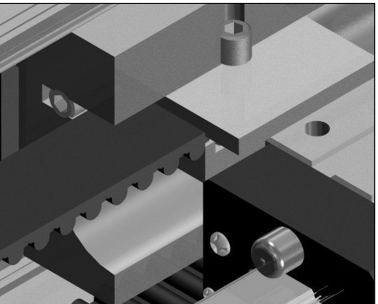
Advantageous for attaching at various motor and reducer models



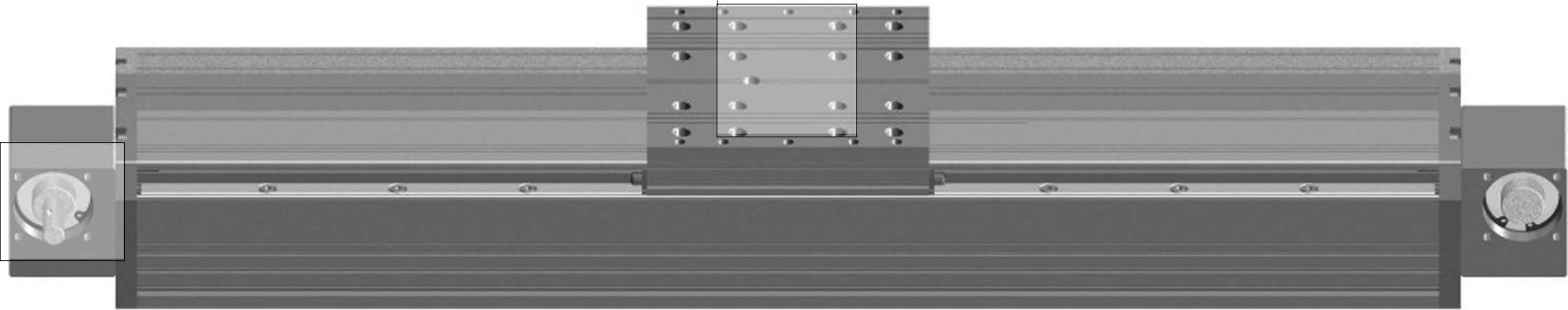
Possible to produce various types slider along with customer requirements



High strength and high precision LM guide applied



Iron core reinforced RPP type belt allows high location precision under heavy torque and reduction of frictional noise during high speed conveyance, which shows greatly upgraded performance than classic timing belt.

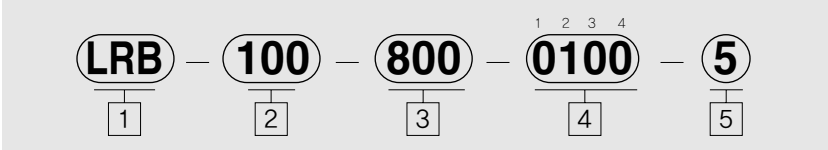




Features

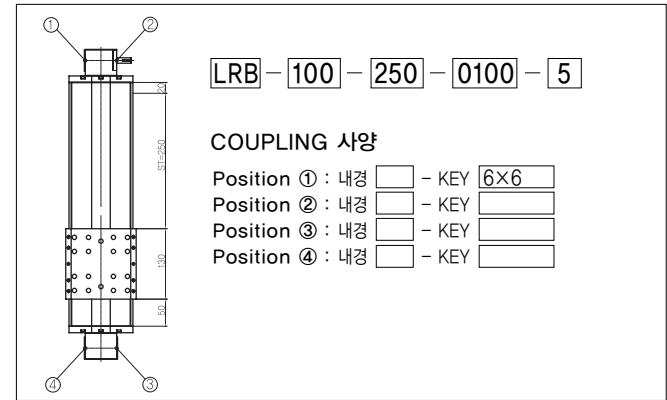
- Combination of LM guide and belt driving unit
- Compact design with high strength structure
- Designed for various combinations, comfortable for multi-shaft combination
- Iron core reinforcing high tension timing belt applied
- Easy maintenance
- Responding to various customer requirements such as mounting, accessory formation, etc

Order type



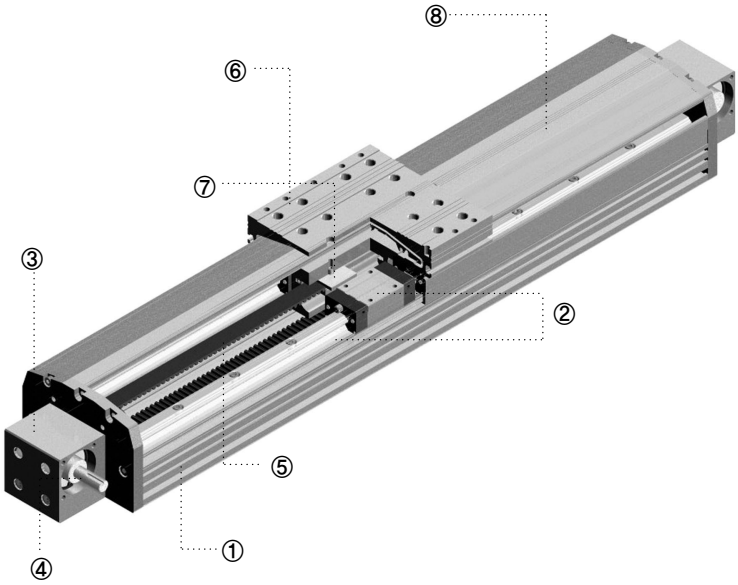
- 1 TYPE
- 2 Type number
100, 120, 166, 210
- 3 STROKE
- 4 Coupling attachment type
0 : Standard slider
1 : COUPLING TYPE
2 : SHAFT TYPE
- 5 Quantity

Ordering of Module



Accessory

- ☐ Motor (Name of company:) (Model name :) (Power : <kw>)
- ☐ MSK (Sensor Bracket)
☐ Photo Sensor
☐ Proximity Sensor
- ☐ Reducer
☐ Pulley Reducer
☐ Others(Name of company:) (Model name :) (Reduction gear ratio :)
- ☐ MBK (Mounting block)
Quantity : EA
- ☐ (Urethane stopper)



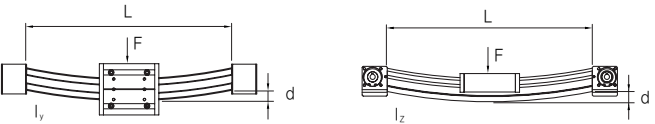
Specification of components

No	Component name	Material	No	Component name	Material
1	Rail	Aluminum alloy	7	Timing belt	Urethane
2	Product No.	LM GUIDE	6	Slider	Aluminum alloy
	100	No.20 / 1RAIL 1BLOCK			
	120	No.15 / 2RAIL 4BLOCK			
	166	No.15 / 2RAIL 4BLOCK			
3	Pulley box	Aluminum alloy	7	Belt clip	Carbon steel
4	Timing pulley	High carbon steel	8	COVER	Aluminum alloy

Performance Sheet

Repeating accuracy	±0.08mm
Straightness of rail	0.35mm/m
Parallelism between shafts	±0.02mm/m
Tolerance of length	±0.5mm

Max. deflection of rail



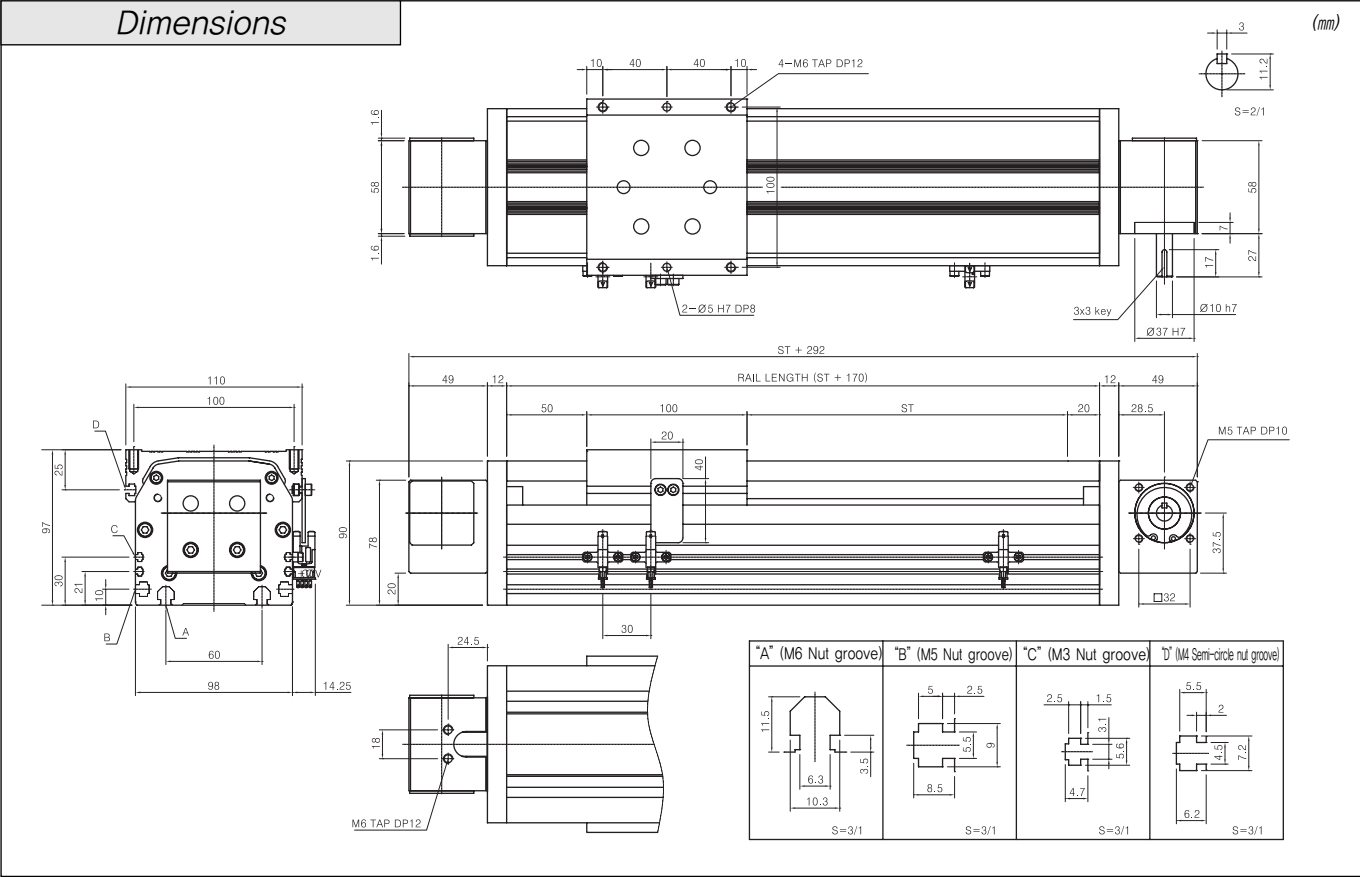
*Formula for deflection of rail is the same to the whole dimension.

$$d = \frac{F \times L^3}{192 \times E \times I}$$

E : Young's modulus, aluminum – 70,000N/mm²
d : deflection [mm]
F : load [N]
L : free length [mm]
I : 2'nd moment of area [mm⁴]

Timing belt specification and Max. stroke

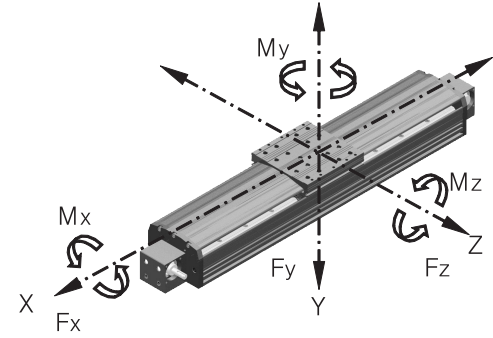
Model No.	Stoke	Belt type	Belt width	Material of velt
100	3830	RPP5	15	Polyurethane With Steel cord
120	3800	RPP5	15	
166	3760	RPP5	25	
210	3710	RPP8	30	



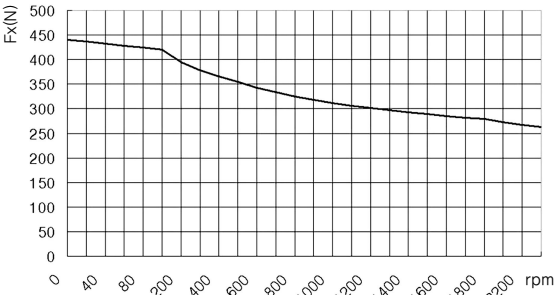
► Technical data

- Speed Max. 1,6%
- Acceleration Max. 3%
- Pulley P, C, D, 31.83mm
- Stroke per revolution $\approx 100\text{mm/rev.}$
- 2'nd moment of area $I_y=20.6 \times 10^5 \text{mm}^4$
 $I_z=4.6 \times 10^5 \text{mm}^4$
- No-load torque 0.8Nm
- Weights
Basic weight with zero stroke 3.3kg
Weight/100mm stroke 0.7kg

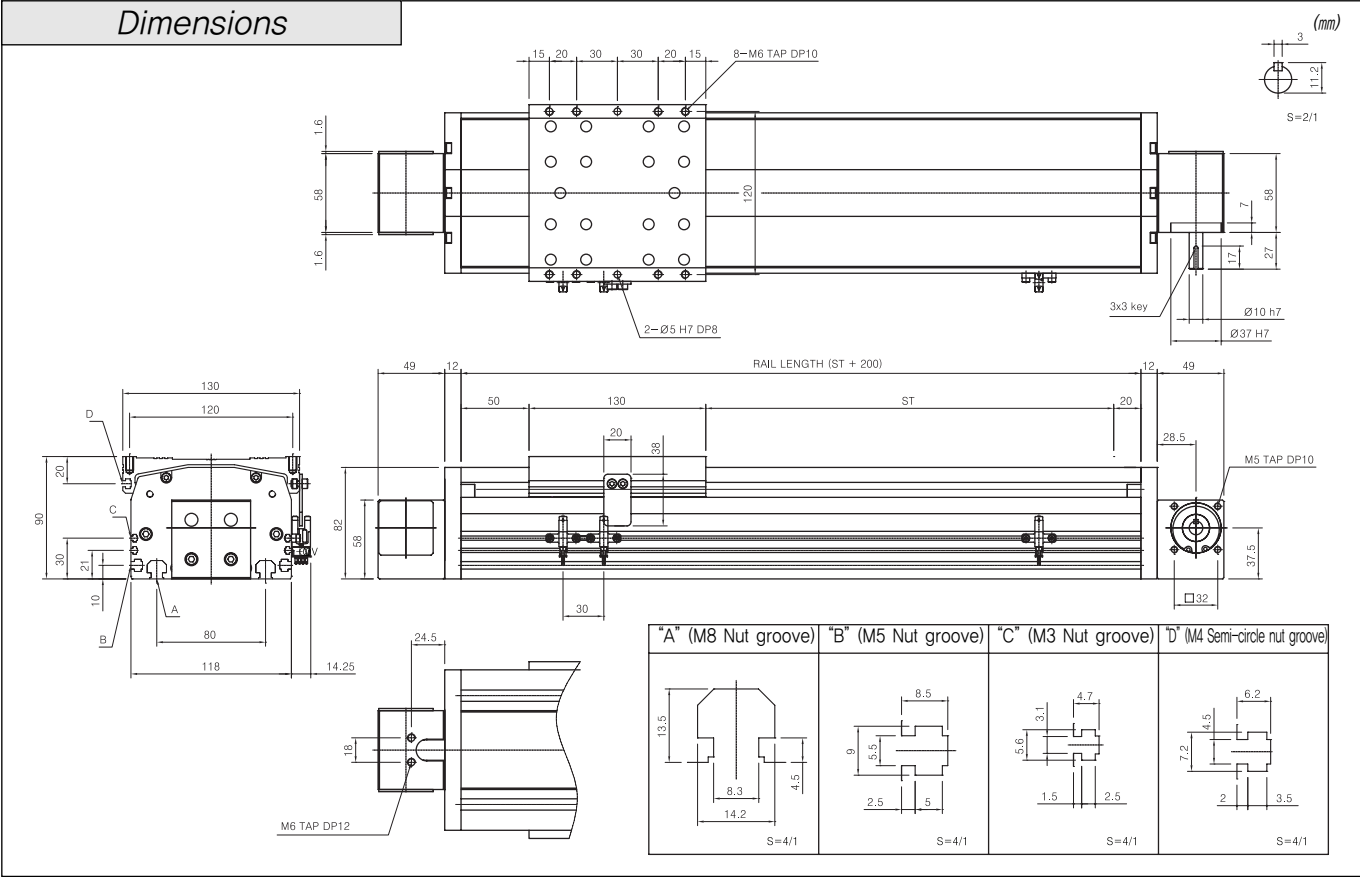
► Forces and moments



Slider Type	Forces/Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
LRB100	STATIC	Max,440	25,088	25,088	216	176	176
	DYNAMIC		14,210	14,210	129	106	106



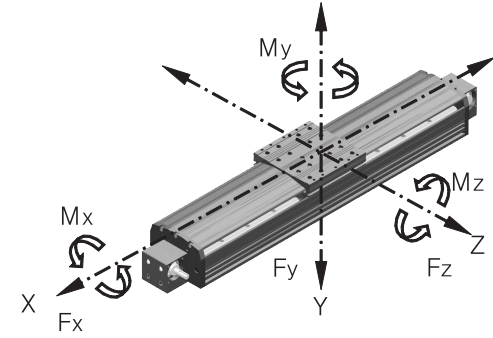
* Fx depends on speed, see respective chart.



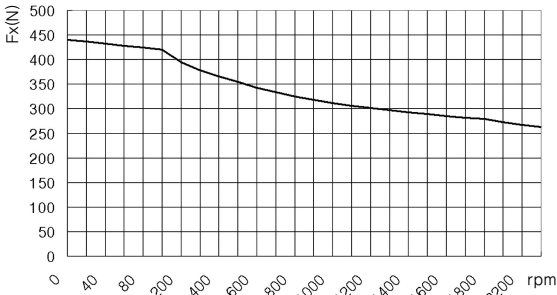
► Technical data

- Speed Max. 1,6%
- Acceleration Max. 3%
- Pulley P, C, D, 31.83mm
- Stroke per revolution $\approx 100\text{mm/rev.}$
- 2'nd moment of area $I_y=33.3 \times 10^5 \text{mm}^4$
 $I_z=3.93 \times 10^5 \text{mm}^4$
- No-load torque 1.2Nm
- Weights
Basic weight with zero stroke 4.4kg
Weight/100mm stroke 1.0kg

► Forces and moments

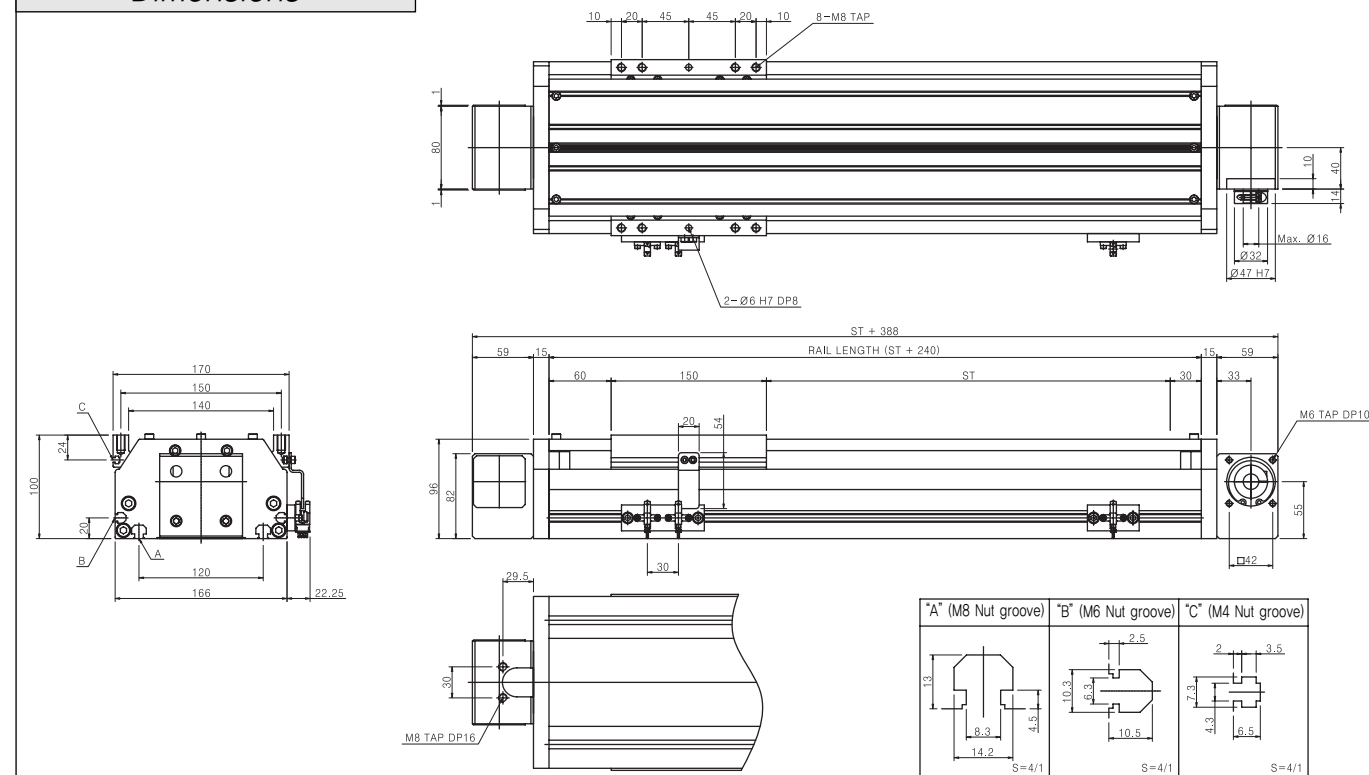


Slider Type	Forces/Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
LRB120	STATIC	Max,440	53,704	53,704	549	235	235
	DYNAMIC		33,320	33,320	330	141	141



* Fx depends on speed, see respective chart.

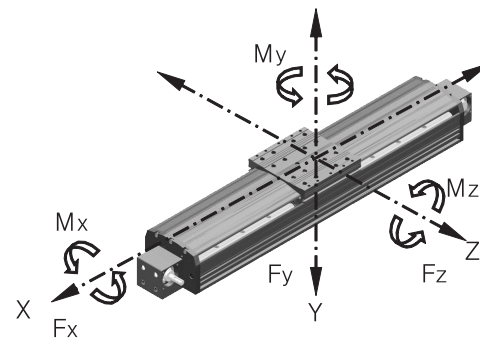
Dimensions



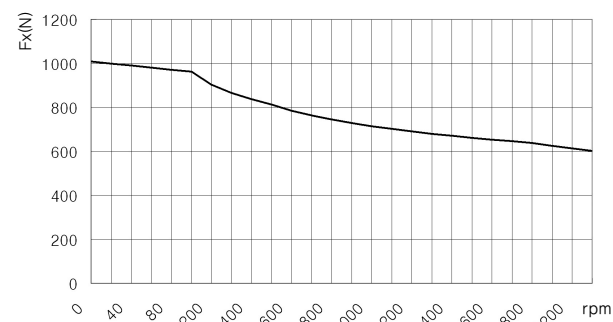
► Technical data

- | | |
|----------------------------------|--|
| • Speed | Max, 2% |
| • Acceleration | Max, 5% |
| • Pulley P: C, D | 41.38mm |
| • Stroke per revolution | ≐130mm/rev. |
| • 2 nd moment of area | $I_y=13,0 \times 10^6 \text{ mm}^4$
$I_z=1,14 \times 10^6 \text{ mm}^4$ |
| • No-load torque | 1,2Nm |
| • Weights | |
| Basic weight with zero stroke | 7.3kg |
| Weight/100mm stroke | 1.4kg |

► Forces and moments



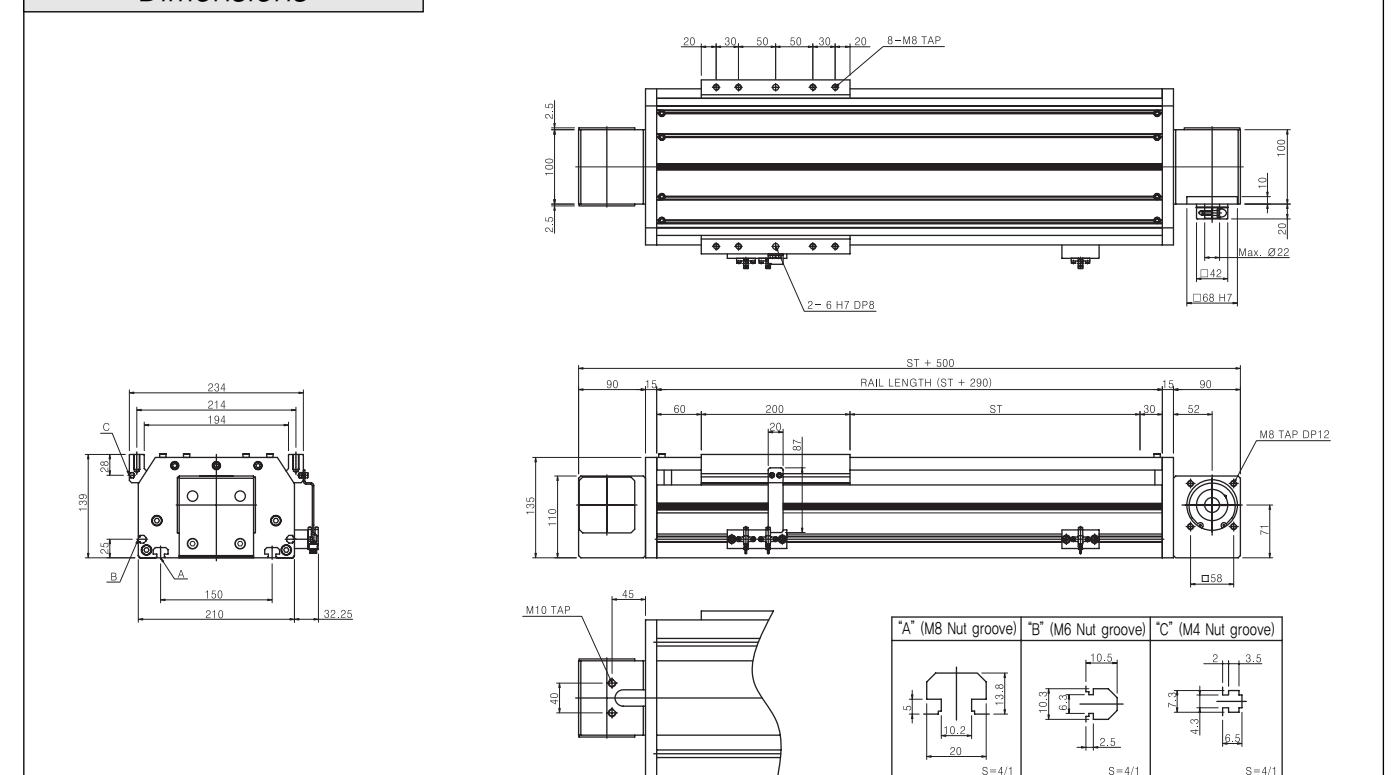
Slider Type	Forces/Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
LRB166	STATIC	Max.1000	53,704	53,704	824	274	274
	DYNAMIC		33,320	33,320	494	165	165



* Fx depends on speed, see respective chart.

LRB 210

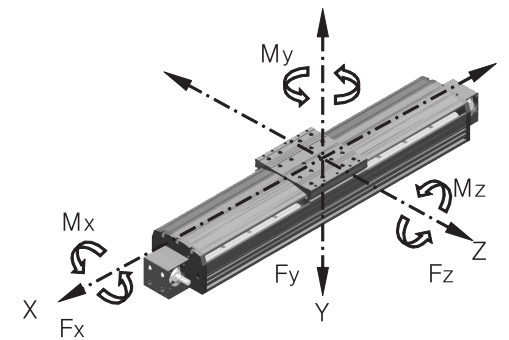
Dimensions



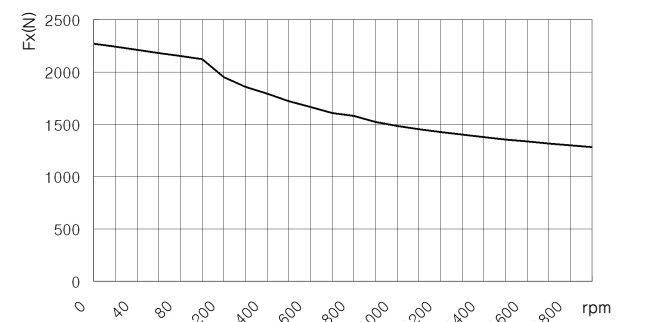
► Technical data

- | | |
|----------------------------------|--|
| • Speed | • Max, 2% |
| • Acceleration | • Max, 8% |
| • Pulley P. C. D. | • 61.12mm |
| • Stroke per revolution | • $\approx 192\text{mm/rev.}$ |
| • 2 nd moment of area | • $I_y = 37.5 \times 10^6 \text{mm}^4$
$I_z = 4.35 \times 10^6 \text{mm}^4$ |
| • No-load torque | • 2Nm |
| • Weights | |
| Basic weight with zero stroke | • 18.5kg |
| Weight/100mm stroke | • 2.8kg |

► Forces and moments



Slider Type	Forces/Torques	F _x (N)	F _y (N)	F _z (N)	M _x (Nm)	M _y (Nm)	M _z (Nm)
LRB210	STATIC	Max.2200	156,800	156,800	3,673	1,632	1,632
	DYNAMIC		83,888	83,888	2,204	979	979

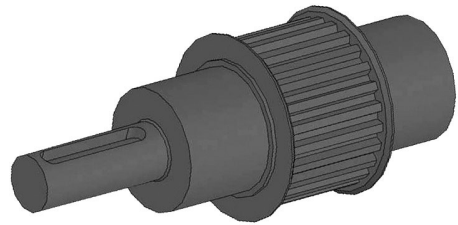


* Fx depends on speed, see respective chart.

PULLEY OPTION

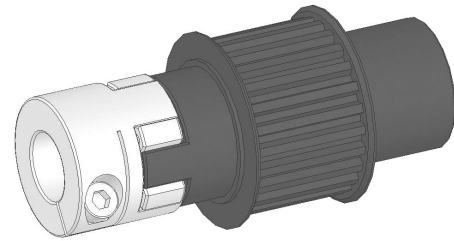
● PSH Type

One body type pulley that having driving shaft



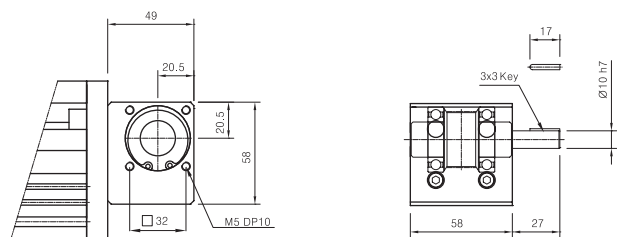
● PCP Type

This type pulley is joined with Jaw-coupling directly and supplied with coupling.

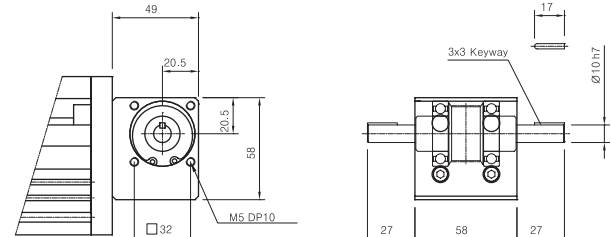


LRB100

PSH-S

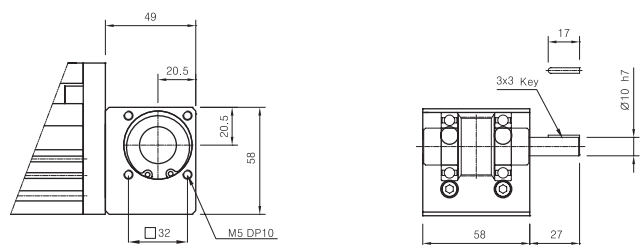


PSH-D

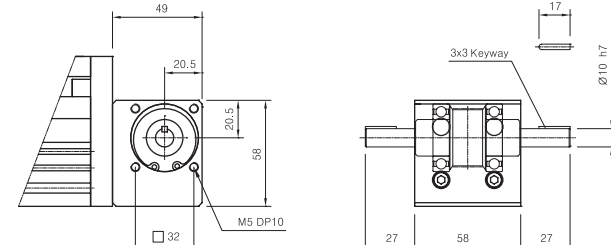


LRB120

PSH-S



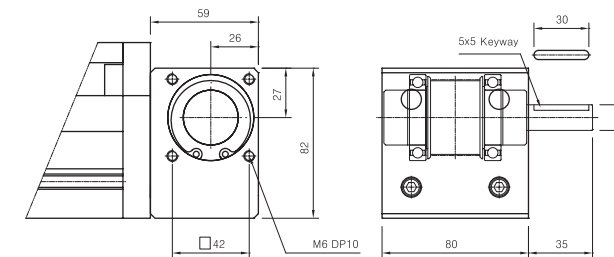
PSH-D



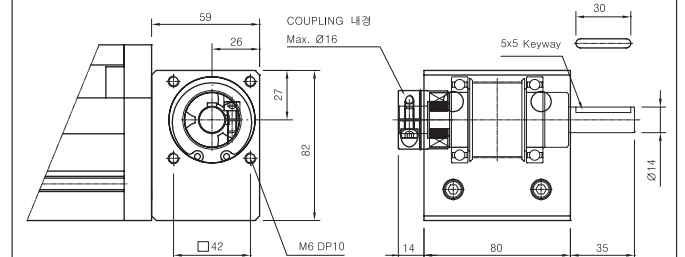
PULLEY OPTION

LRB166

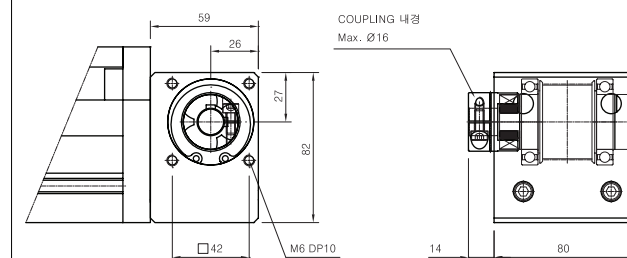
PSH-S



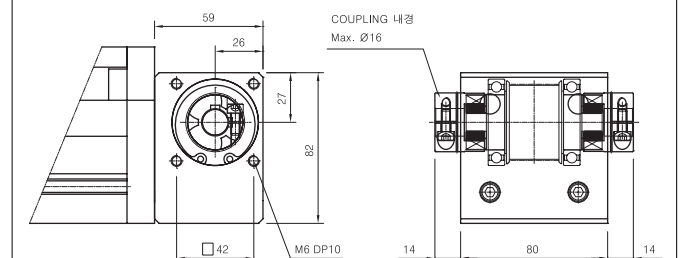
PSH-C



PCP-S

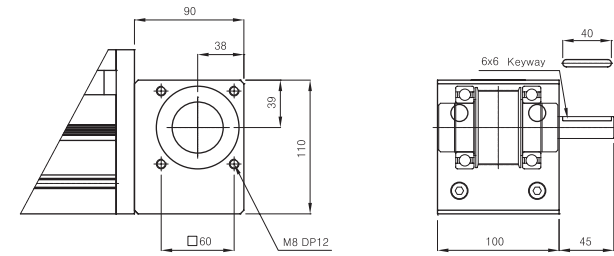


PCP-D

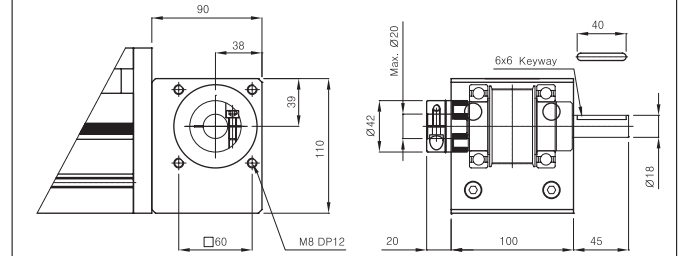


LRB210

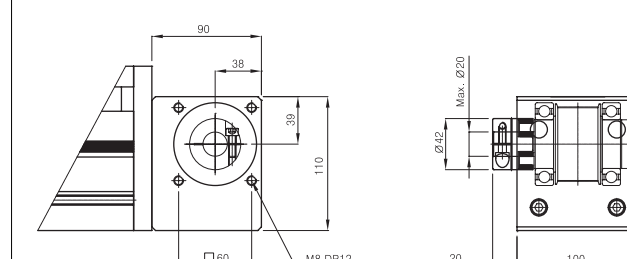
PSH-S



PSH-C



PCP-S



PCP-D

