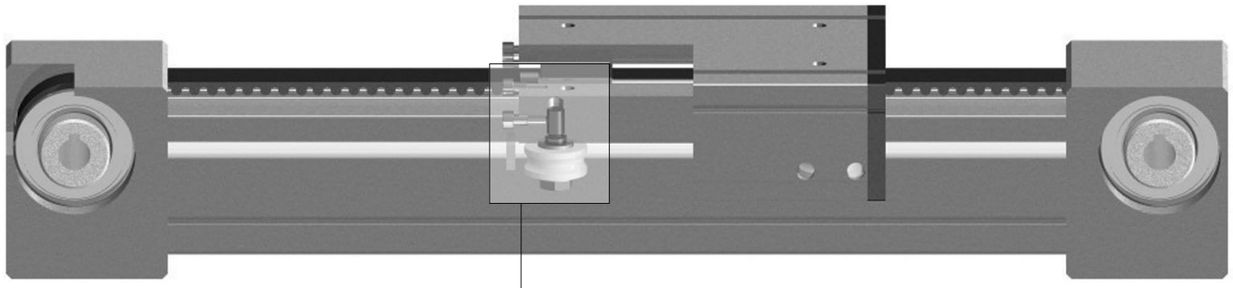
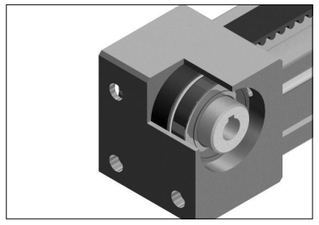
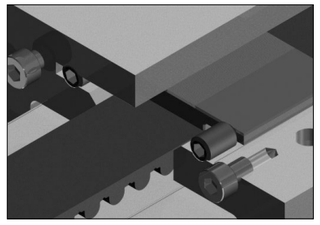
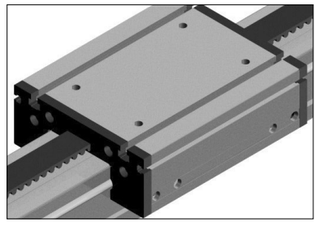




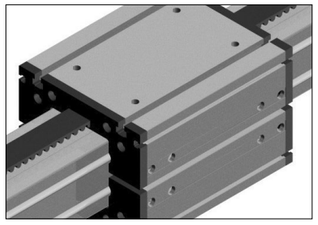
Possible to demonstrate system using various axis combination, and comfortable maintenance.
Long lifespan guaranteed by the application of strong wearing-resistant aluminum material.
Convenient attachment at rail side with nut groove.



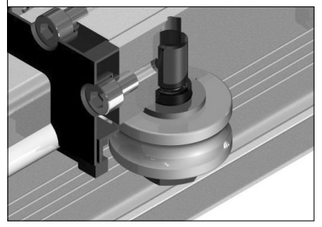
Iron core reinforced RPP type belt allows high location precision under heavy torque and reduction of frictional noise during high speed conveyance, which shows greatly upgraded performance than classic timing belt.



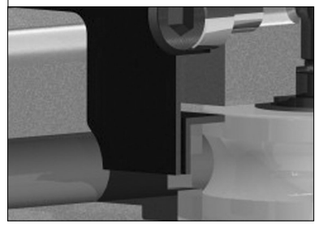
MB 40/60/80/100
Basic slider block
* Possible for producing in any lengths for slider along with customer requirements
* Possible to select the number of roller bearings along with customer specification
S : Standard slider
T : Standard slider + Roller 2
H : Standard slider + Roller 2



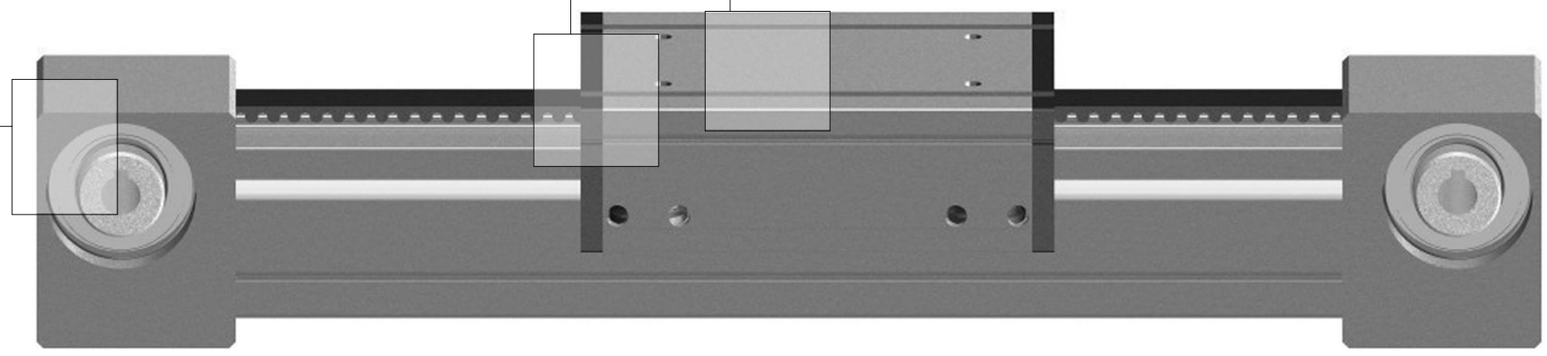
MB 40/60/80/100-D
A structure which slider is mounted upper and lower side, suitable for heavy load rather than standard slider block and rail moving structure with fixing a slider.

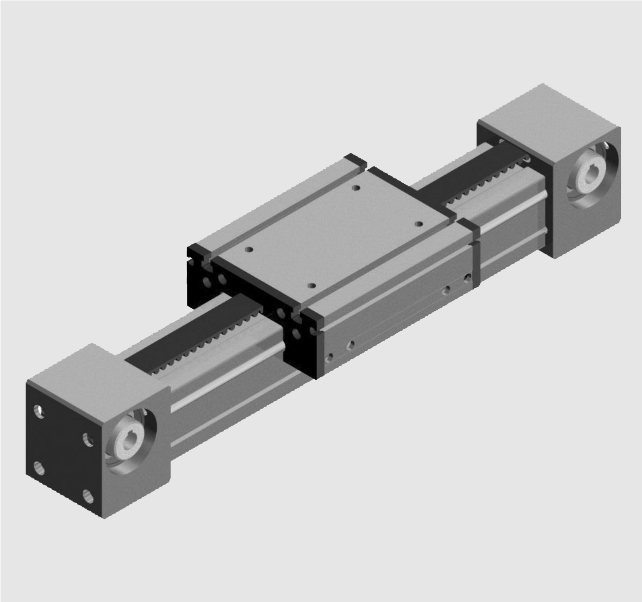


Adopting high quality bearing steel shaft, sound driving guarantee during high speed conveyance
In application of chrome plated thermal treatment bearing steel for return rod of driving part, which super finishing is processed, it shows strong performance for wearing at contact part
In application of specially designed bolt combination, keeping set pressure between bearing and return rod



With mounting wool wiper on standard type, no hardening after long term utilization unlike rubber type wiper
Keeping constant frictional resistance of wiper by spring in sealing





Features

- Combination of high speed motion linear guide and timing belt unit
- Optimized for multi-shaft combination system with quality and economic performance guaranteed
- Iron core reinforcing high tension timing belt applied
- Easy maintenance
- Responding to various customer requirements with providing various types

Order type

MB – 40 – ○ – S – 500 – ①⓪⓪⓪ – ①

[1] [2] [3] [4] [5] [6] [7]

(The four digits under [6] are numbered 1, 2, 3, 4.)

[1] TYPE

[2] Type number
30, 40, 60, 80, 100

[3] Slider format
Non-symbo : Standard
D : Upper/lower slider

[4] Slider types
S : Standard slider
T : Standard slider + Roller 2
H : Standard slider + Roller 4

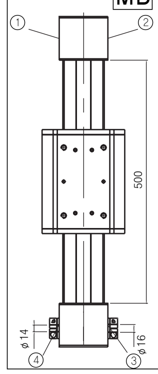
[5] Rail length(mm)

[6] Coupling attachment type
0 : STANDARD
1 : COUPLING TYPE
2 : SHAFT TYPE

[7] Quantity

▶ Ordering of Module

MB – 40 – [ ] – S – 500 – 0 0 1 1 – 1



COUPLING
Position ① : 내경 [ ] – KEY [ ]
Position ② : 내경 [ ] – KEY [ ]
Position ③ : 내경 [16] – KEY [5×5]
Position ④ : 내경 [14] – KEY [ ]

▶ Accessory

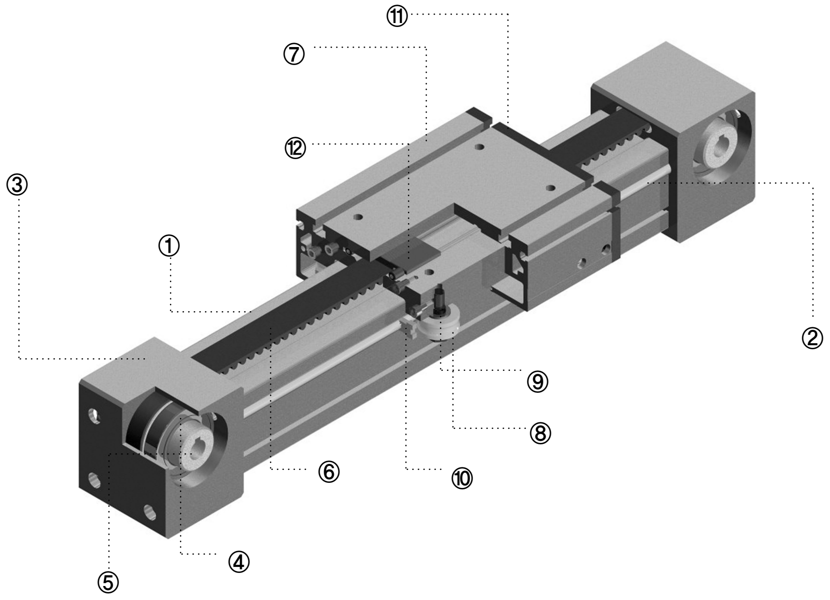
☐ Motor (Name of company :)
(Model name :)
(Power : ⟨kw⟩)

☐ Reducer
☐Pulley Reducer
☐Other (Name of company :)
(Model name :)
(Reduction gear ratio :)

☐ MSK (Sensor Bracket)
☐Photo Sensor
☐Proximity Sensor

☐ MBK (Mounting block)
Quantity : EA

☐ Urethane stopper



▶ Specification of Components

No	Component name		Material	No	Component name	Material
1	Rail		Aluminum alloy	7	Rail	Aluminum alloy
2	Product No.	Shaft	Bearing steel	8	Track roller	Bearing steel
	30	Ø4				
	40	Ø6				
	60	Ø10				
	80	Ø12				
	100	Ø16				
3	Pulley box		Aluminum alloy	9	Flat washer	–
4	Bearing		–	10	Wiper	FELT
5	Timing pulley		High carbon steel	11	Sealing	EP
6	Timing belt		Urethane	12	Belt clip	Carbon steel

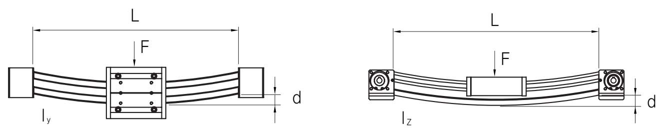
▶ Performance sheet

repeating accuracy	±0.05㎜
Straightness of rail	0.35㎜/m
Parallelism between shafts	±0.02㎜/m
Tolerance of length	±0.5㎜

▶ Timing belt dimension and Rail size

Model No.	Length	Belt type	Belt width	Material of velt
30	3000	S3M	12	(Polyurethane With Steel cord)
40	4000	RPP5	15	
60	6000	RPP5	25	
80	6000	RPP8	30	
100	6000	RPP8	50	

▶ Max. deflection of rail



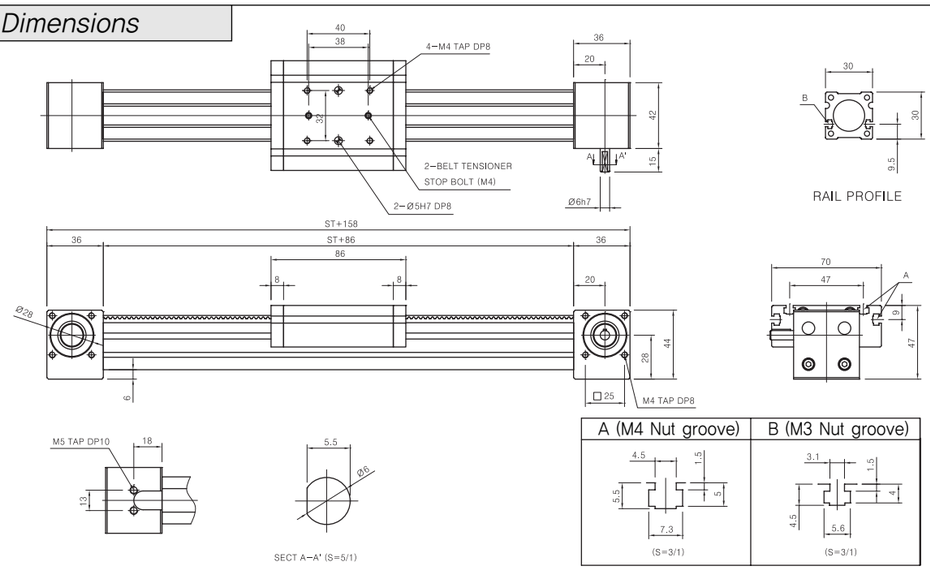
*Formula for deflection of rail is the same to the whole dimension.

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

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

Dimensions

(mm)



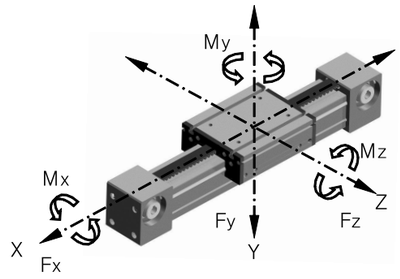
* Rails that esceed Max. rail length without joint also available on customer's request.

▶ Technical data

- Speed · · · · · Max. 3㎧
- Acceleration · · · · · Max. 20㎨
- Pulley P. C. D. · · · · · 23.87㎜
- Stroke per revolution · · · · · ≒75㎜/rev.
- No-load torque · · · · · 0.22Nm
- 2'nd moment of area · · · · · I_y=4.45×10⁴㎜⁴, I_z=4.65×10⁴㎜⁴
- Weights

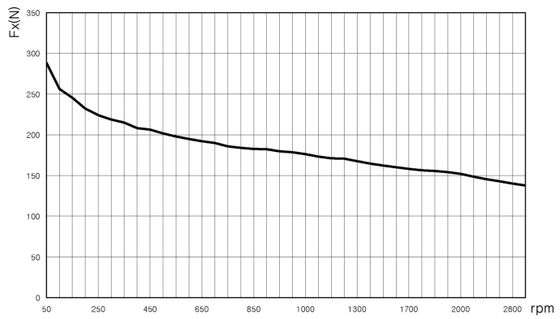
  Basic weight with zero stroke · · · · · 1.0㎏
  Weight/100㎜ stroke · · · · · 0.14㎏

▶ Forces and moments



Slider Type	Forces/ Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MB30	STATIC	Max.280	60	90	10	14	13
	DYNAMIC		55	85	5	7	6

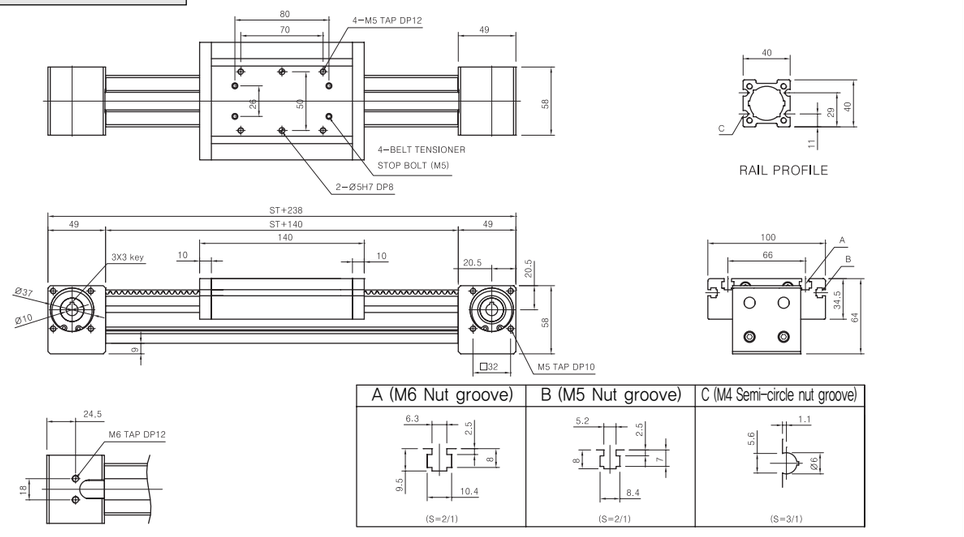
* Having bigger value in case of selecting slider special specification (T,H)



* Fx depends on speed, see respective chart.

Dimensions

(mm)



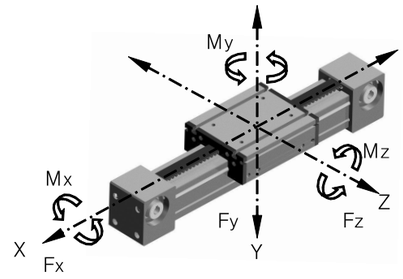
* Rails that esceed Max. rail length without joint also available on customer's request.

▶ Technical data

- Speed · · · · · Max. 4㎧
- Acceleration · · · · · Max. 20㎨
- Pulley P. C. D. · · · · · 31.83㎜
- Stroke per revolution · · · · · ≒100㎜/rev.
- No-load torque · · · · · 0.32Nm
- 2'nd moment of area · · · · · I_y=1.4×10⁵㎜⁴, I_z=1.2×10⁵㎜⁴
- Weights

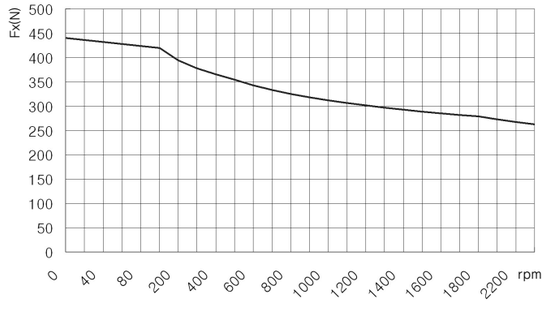
  Basic weight with zero stroke · · · · · 2.1㎏
  Weight/100㎜ stroke · · · · · 0.3㎏

▶ Forces and moments



Slider Type	Forces/ Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MB40	STATIC	Max.440	900	1200	25	33	27
	DYNAMIC		650	700	20	22	15

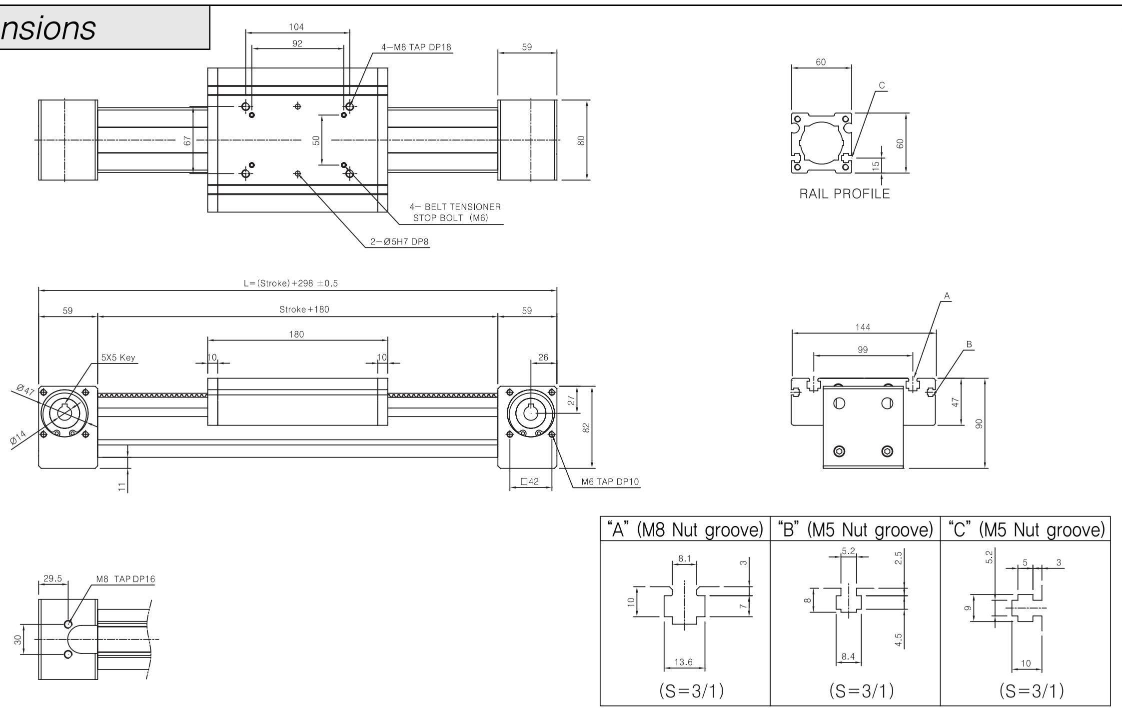
* Having bigger value in case of selecting slider special specification (T,H)



* Fx depends on speed, see respective chart.

Dimensions

(㎜)



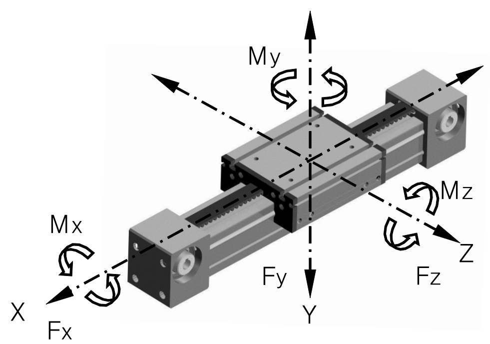
* Rails that esceed Max. rail length without joint also available on customer's request.

▶ Technical data

- Speed · Max. 5㎧
- Acceleration · Max. 20㎨
- Pulley P. C. D. · 41.38㎜
- Stroke per revolution · · · · · · · · · · · · · · · · · ≒130㎜/rev.
- No-load torque · 0.61Nm
- 2'nd moment of area · · · · · · · · · · · · · · · · · I_y=6.8×10⁵㎜⁴ I_z=6.7×10⁵㎜⁴
- Weights

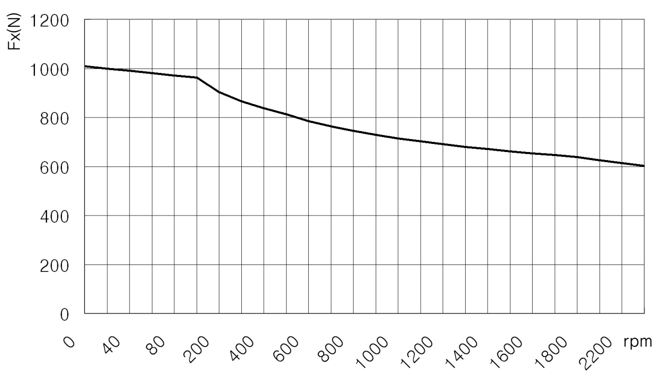
  Basic weight with zero stroke · · · · · · · · · · · · 5.6㎏
  Weight/100㎜ stroke · · · · · · · · · · · · · · · · · 0.5㎏

▶ Forces and moments



Slider Type	Forces/ Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MB60	STATIC	Max.1000	1700	3000	67	130	96
	DYNAMIC		1100	2000	43	105	76

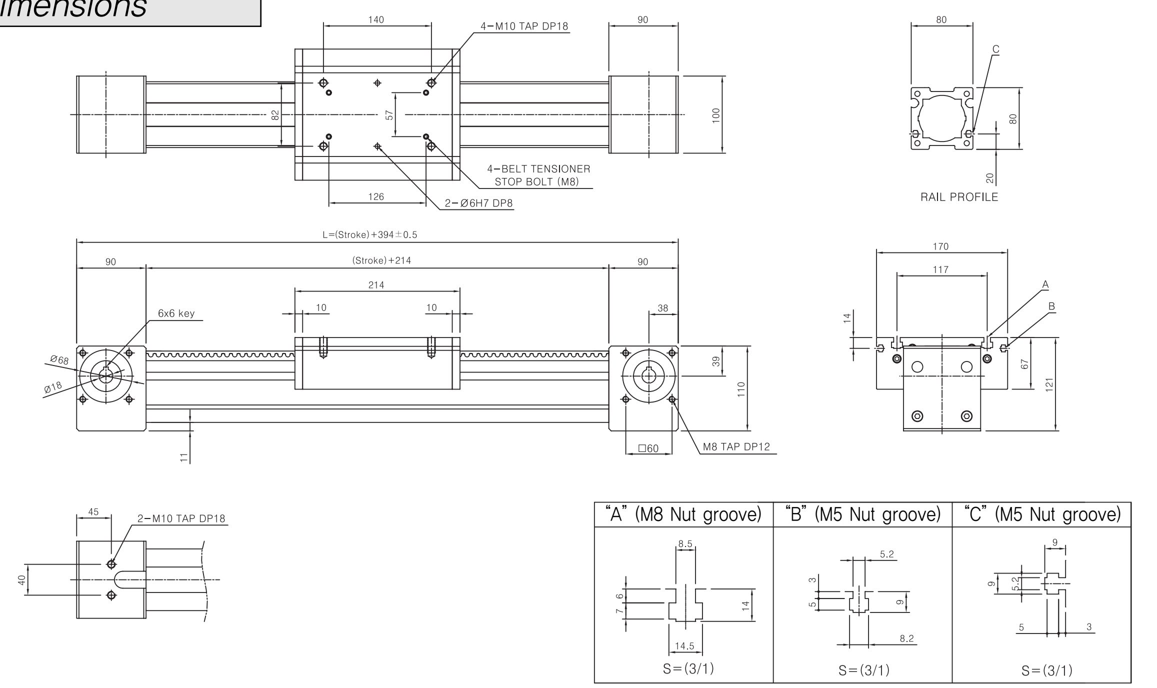
* Having bigger value in case of selecting slider special specification (T.H)



* Fx depends on speed, see respective chart.

Dimensions

(㎜)



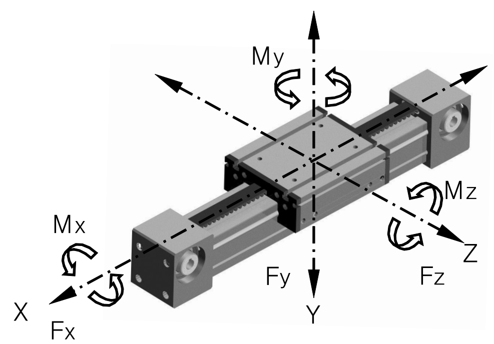
* Rails that esceed Max. rail length without joint also available on customer's request.

▶ Technical data

- Speed · Max. 6㎧
- Acceleration · Max. 20㎨
- Pulley P. C. D. · 61.12㎜
- Stroke per revolution · · · · · · · · · · · · · · · · · ≒192㎜/rev.
- No-load torque · 0.93Nm
- 2'nd moment of area · · · · · · · · · · · · · · · · · I_y=21.1×10⁵㎜⁴ I_z=19.5×10⁵㎜⁴
- Weights

  Basic weight with zero stroke · · · · · · · · · · · · 12.9㎏
  Weight/100㎜ stroke · · · · · · · · · · · · · · · · · 0.8㎏

▶ Forces and moments



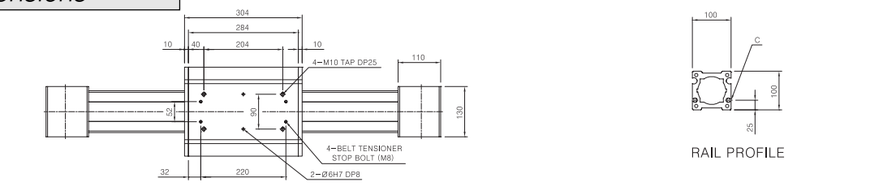
Slider Type	Forces/ Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MB80	STATIC	Max.2200	1700	3000	90	162	116
	DYNAMIC		1100	2000	55	130	84

* Having bigger value in case of selecting slider special specification (T.H)

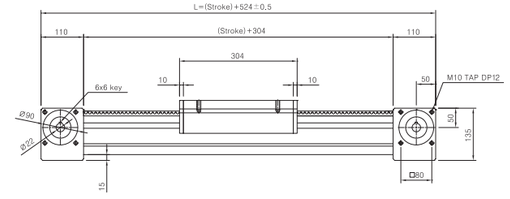
* Fx depends on speed, see respective chart.

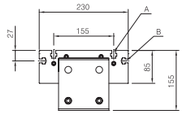
Dimensions

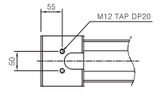
(mm)



RAIL PROFILE







"A" (M8 Nut groove)	"B" (M8 Nut groove)	"C" (M6 Nut groove)
		
(S=3/1)	(S=3/1)	(S=3/1)

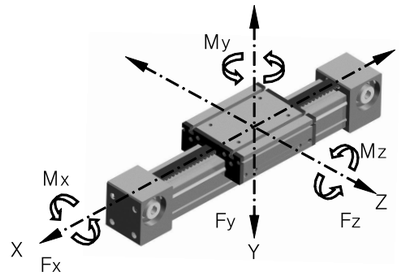
* Rails that esceed Max. rail length without joint also available on customer's request.

▶ Technical data

- Speed ····· Max. 10㎧
- Acceleration ····· Max. 20㎨
- Pulley P. C. D. ····· 81.49㎜
- Stroke per revolution ····· ≒256㎜/rev.
- No-load torque ····· 1.44Nm
- 2'nd moment of area ····· I_y=54.2×10⁵㎟ I_z=50.5×10⁵㎟
- Weights

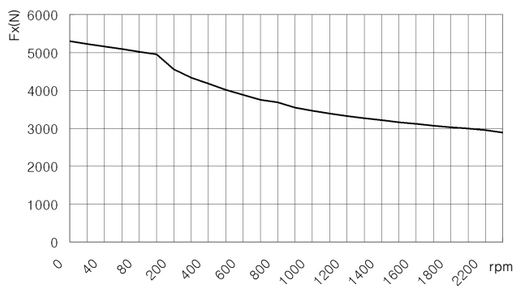
  Basic weight with zero stroke ····· 28.0㎏
  Weight/100㎜ stroke ····· 1.4㎏

▶ Forces and moments



Slider Type	Forces/ Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MB100	STATIC	Max.5300	3600	8000	300	770	422
	DYNAMIC		2200	6500	230	519	275

* Having bigger value in case of selecting slider special specification (T,H)

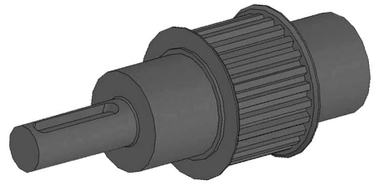


* Fx depends on speed, see respective chart.

PULLEY OPTION

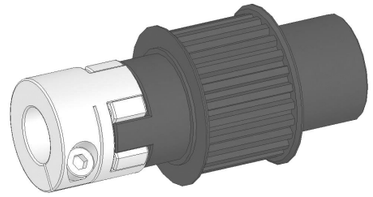
● PSH Type

One body type pulley that having driving shaft



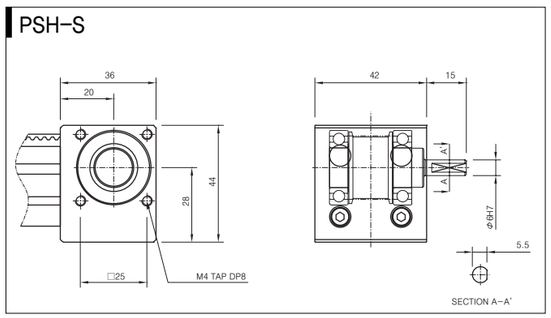
● PCP Type

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

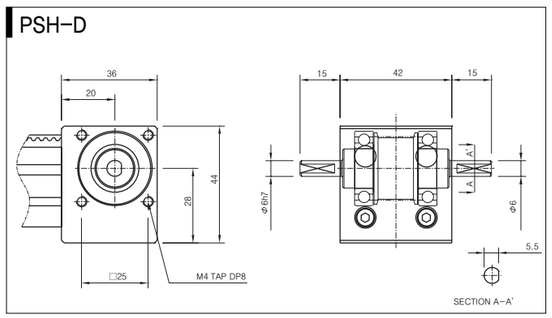


MB30

PSH-S

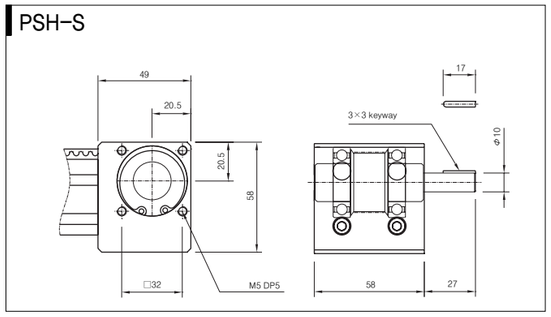


PSH-D

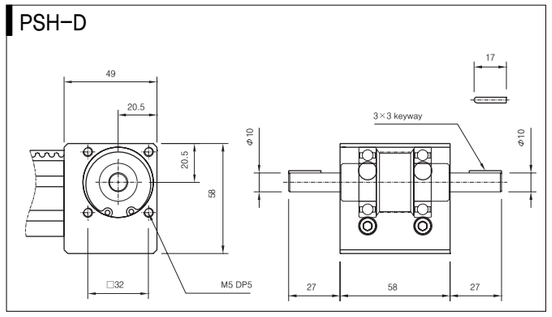


MB40

PSH-S

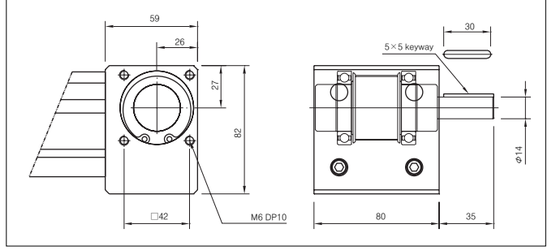


PSH-D

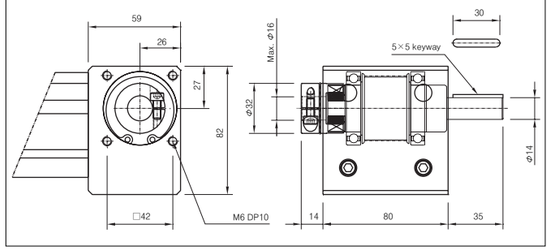


MB60

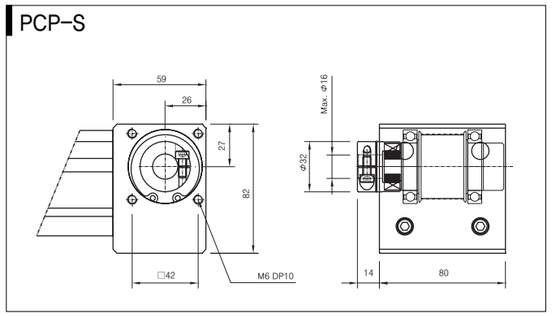
PSH-S



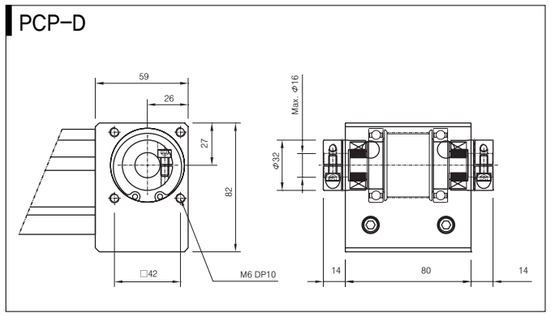
PSH-C



PCP-S

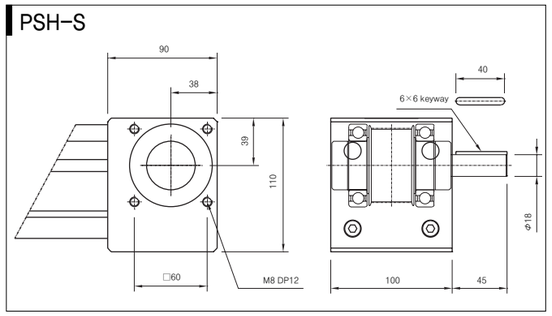


PCP-D

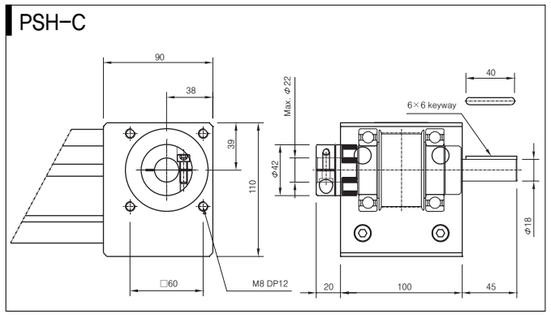


MB80

PSH-S



PSH-C



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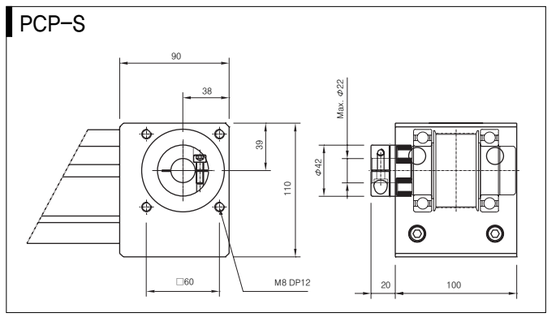

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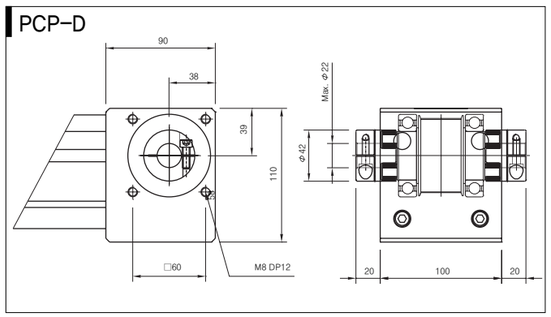

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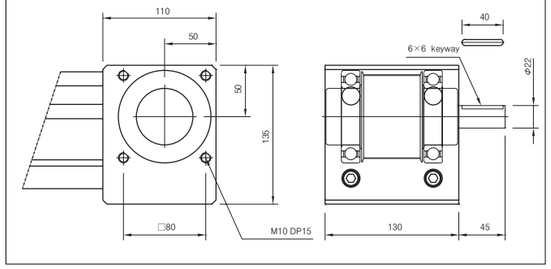

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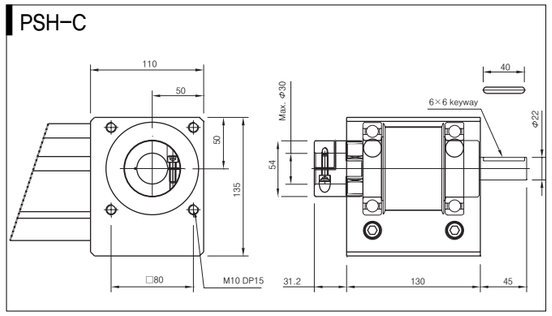

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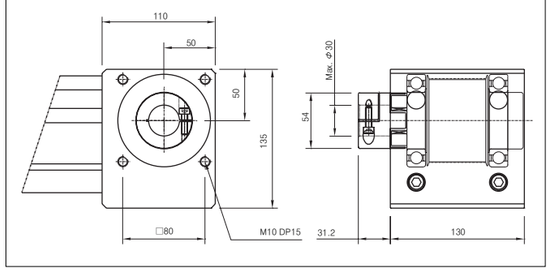

PCP-D