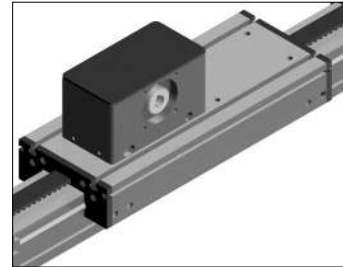
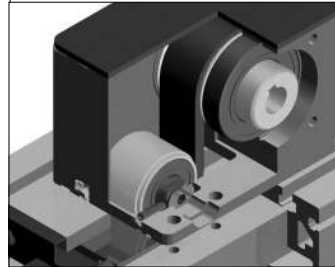
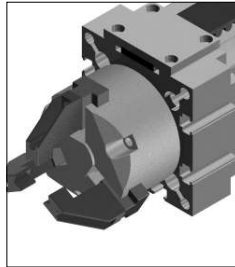
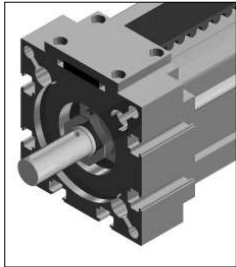
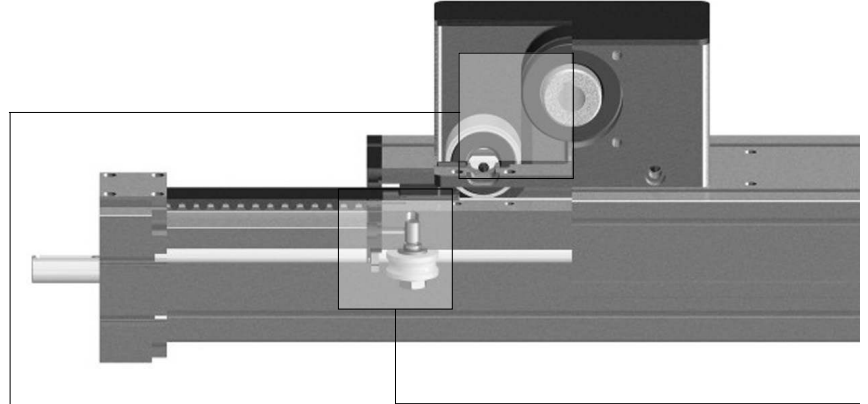


REAL GUIDE MS series

Rack & Pinion Shaped Belt Drivina Module



Possible to mount rotation shaft in the middle hole of rail, and able to form conveyance and 2-shaft rotation without additional device with mounting gripper, etc.

Pulley box mounted on a block, smooth with long shaft utilization, and suitable for rail conveyance with fixing a block

MS 30/40/60/80/100

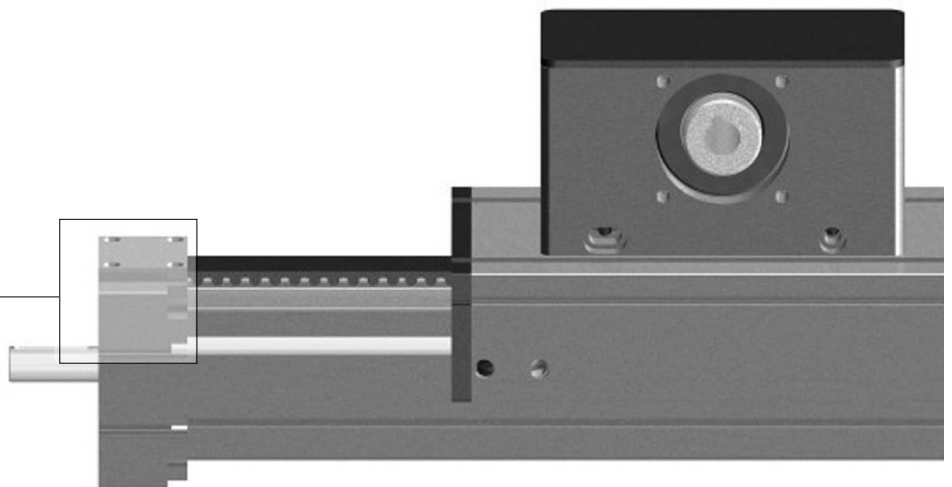
Basic slider block

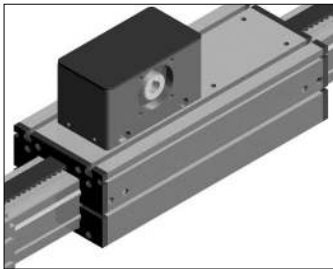
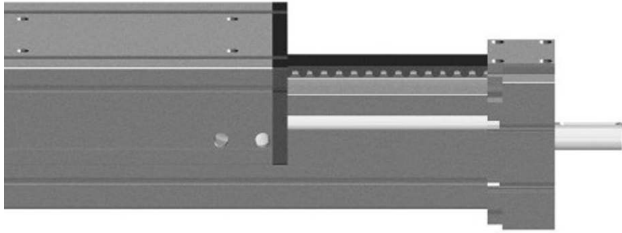
- *Possible for producing in any lengths for slider along with customer requirements
- *Possible to select the number of roller bearings along customer specification

S : Standard slider

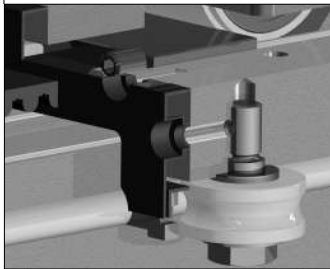
T : Standard slider + Roller 2

H : Standard slider + Roller 4

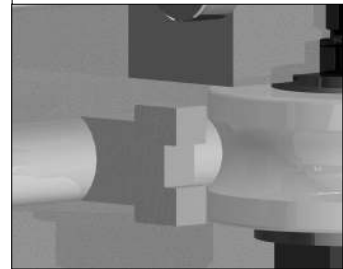




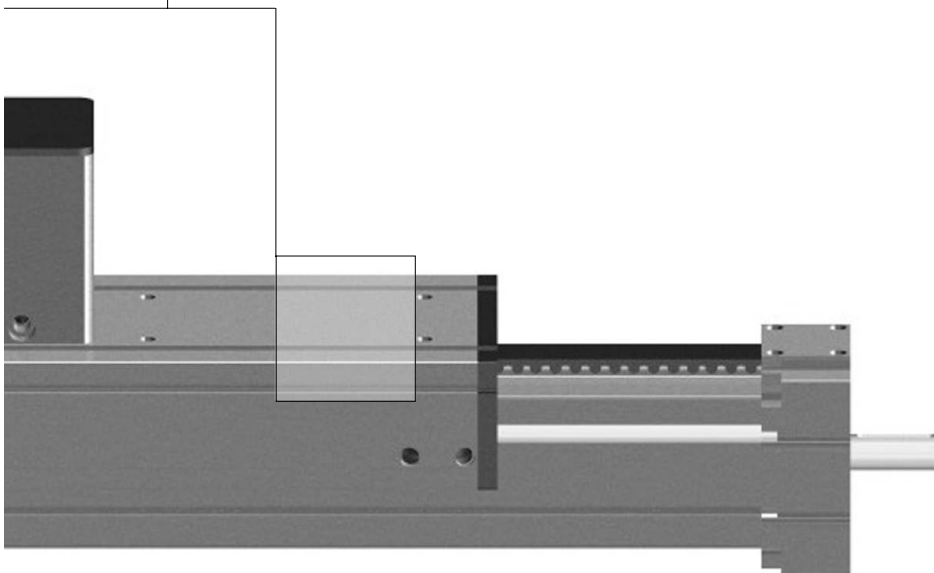
MS 40/60/80/100-D
A structure which slider is mounted upper and lower side, suitable for heavy load rather than standard slider block and rail moving structure with fixing a slider.



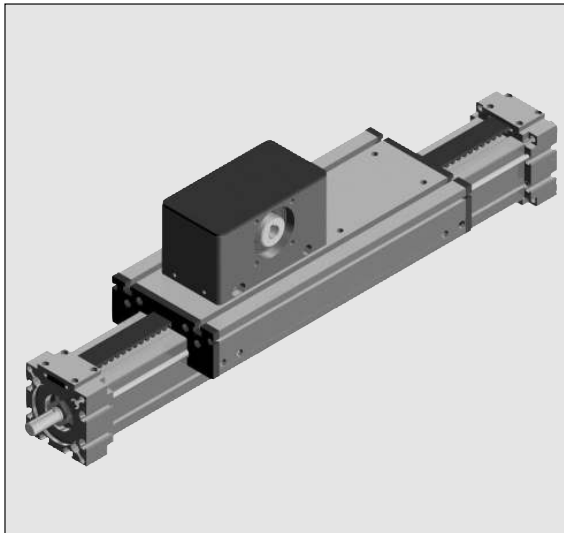
Adopting high quality bearing steel shaft, sound driving guarantee during high speed conveyance.
In application of chrome plated thermal treatment bearing steel for return rod of driving part, which super finishing is processed, it shows strong performance for wearing at contact part.
In application 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.



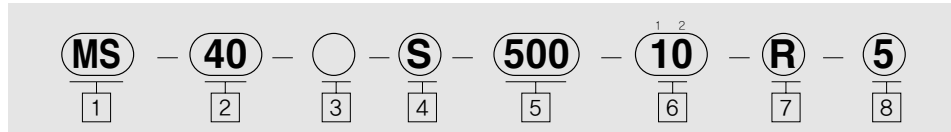
MS 40, 60, 80, 100



Features

- Rack & Pinion shaped belt driving module
- Combination of the best quality components
- Enhanced timing belt
- Easy maintenance
- Responding to various customer requirements

Order type



1 TYPE

2 Type number
60, 80, 100

3 Slider type
Non-symbol : Standard
D : Upper/Lower slider

4 Slider type
S : Standard slider
T : Standard slider + Roller 2
H : Standard slider + Roller 4

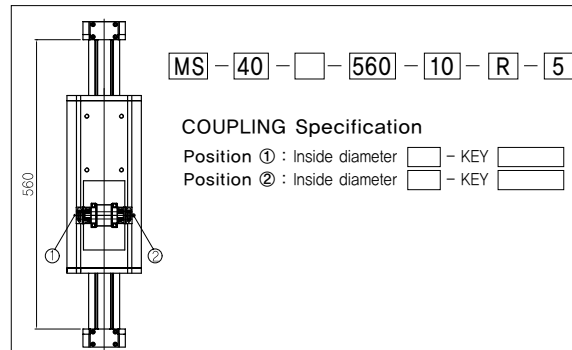
5 Rail length(mm)

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

7 Rotary shaft
R : Shaft included
Non-symbol : Standard

8 Quantity

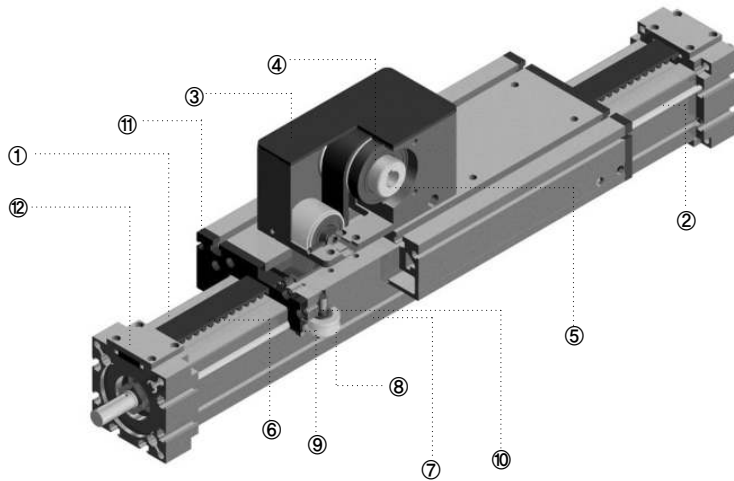
▶ Ordering of Module



▶ Accessory

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

MS Series Specifications



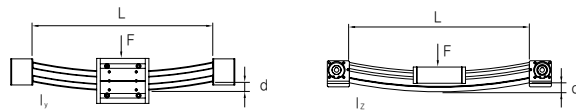
► Specification of Components

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
	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	Aluminum alloy

► Performance sheet

repeating accuracy	±0.05mm
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 : 2nd moment of area [mm⁴]

► Pinion dimension and Rail length

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

MS 40

Dimensions

(mm)

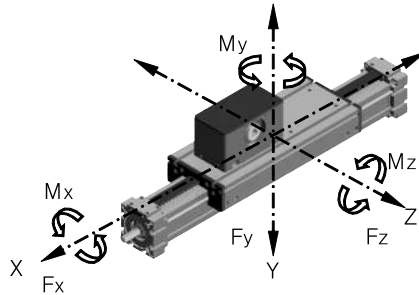
A (M6 Nut groove)	B (M5 Nut groove)	C (M4 Nut groove)	D (M6 Semi-circle nut groove)
(S=2/1)	(S=2/1)	(S=3/1)	(S=2/1)

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

► Technical data

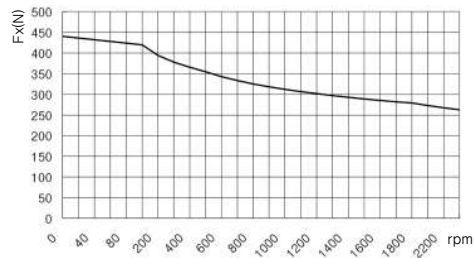
- Speed Max. 4%
- Acceleration Max. 20%
- Pulley P. C. D. 31.83mm
- Stroke per revolution ≈100mm/rev.
- No-load torque 0.32Nm
- 2nd moment of area $I_y=1.4 \times 10^5 \text{mm}^4$
 $I_z=1.2 \times 10^5 \text{mm}^4$
- Weights
- Basic weight with zero stroke 3.4kg
- Weight/100mm stroke 0.3kg

► Forces and moments



Slider Type	Forces/Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MS40	STATIC	Max.440	900	1200	25	50	41
	DYNAMIC		650	700	20	33	23

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



* Fx depends on speed, see respective chart.

MS 60



Dimensions (mm)

A (M8 Nut groove)	B (M5 Nut groove)	C (M5 Nut groove)	D (M6 Semi-circle nut groove)
(S=3/1)	(S=3/1)	(S=3/1)	(S=3/1)

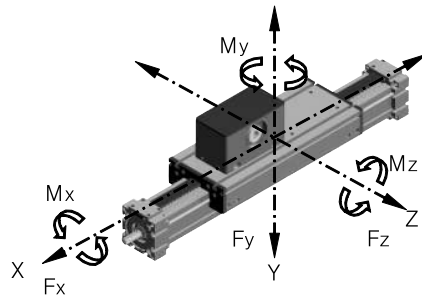
RAIL PROFILE

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

► Technical data

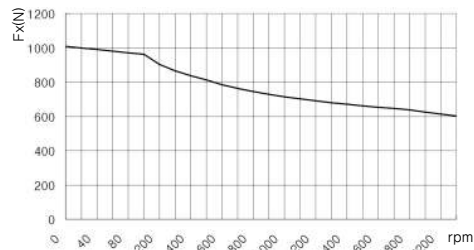
- Speed Max. 5%
- Acceleration Max. 20%
- Pulley P. C. D. 41,38mm
- Stroke per revolution ≈130mm/rev.
- No-load torque 0,61Nm
- 2nd moment of area $I_y=6,8 \times 10^2 \text{mm}^4$
 $I_z=6,7 \times 10^2 \text{mm}^4$
- Weights
- Basic weight with zero stroke 7,8kg
- Weight/100mm stroke 0,5kg

► Forces and moments



Slider Type	Forces/Torques	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
MS60	STATIC	Max.1000	1700	3000	67	195	144
	DYNAMIC		1100	2000	43	158	100

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



* Fx depends on speed, see respective chart.