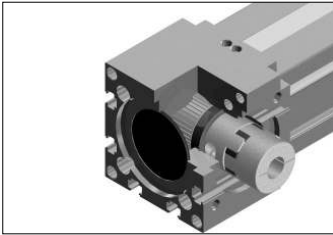
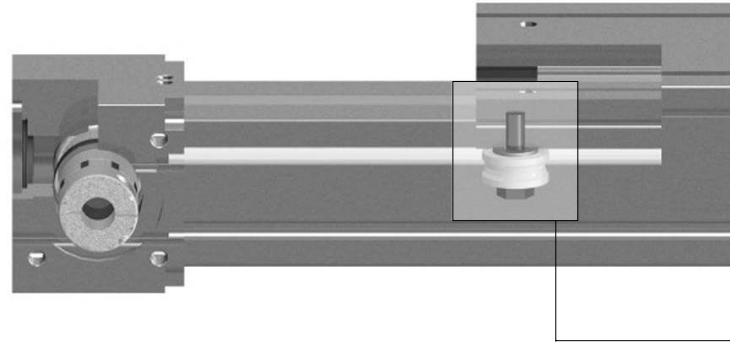
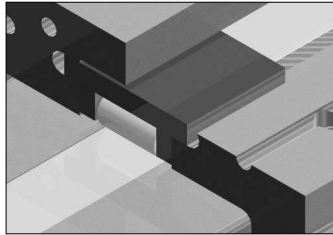


REAL GUIDE MC series

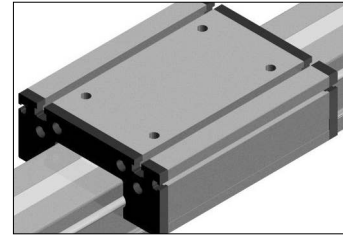
Airtight type belt driving linear module



Simple system demonstration using a number of shaft combinations with comfortable maintenance.
 Long lifespan guaranteed by application of strong wearing-resistant aluminum material.
 Convenient attachment with nut groove at side surface of rail and pulley box.

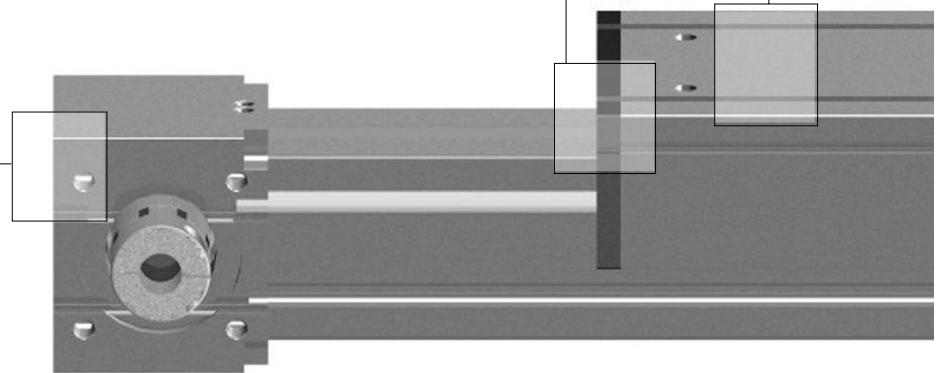


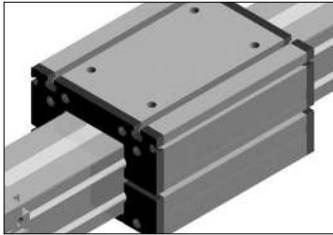
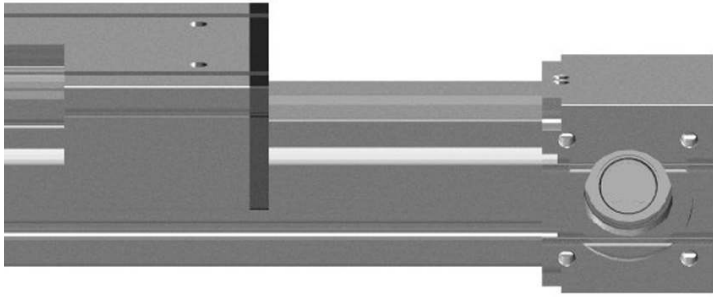
In order to prevent dust generation, the belt is built-in and the stainless steel cover is equipped.



MC 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 specifications

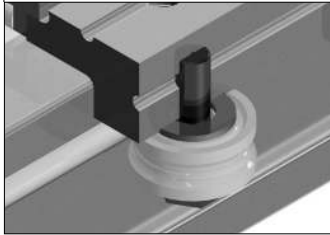
- S : Standard slider
- T : Standard slider + Roller 2
- H : Standard slider + Roller 4



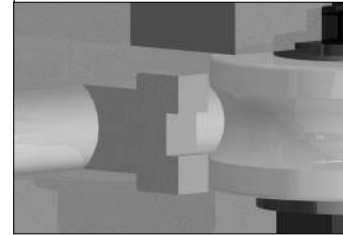


MC 60/80/100-D

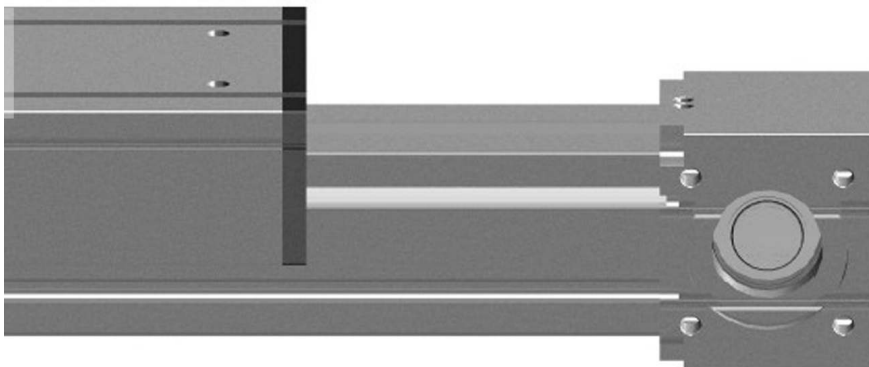
A structure which slider is mounted upper and lower side, suitable for heavy load rather than standard slider block and rail moving structure with fixing a slider.



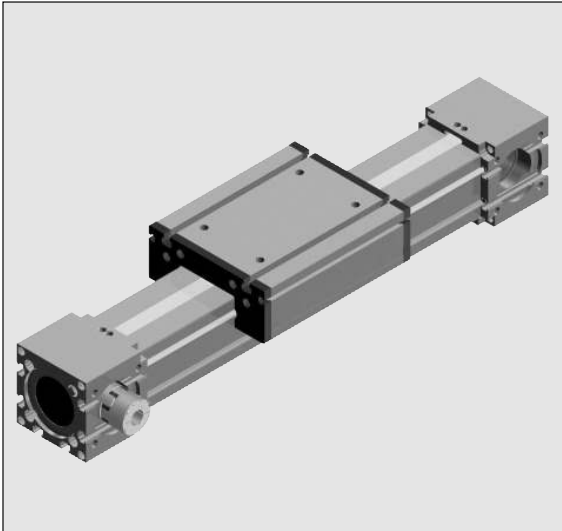
Adopting high quality bearing steel shaft, sound driving guarantee during high speed conveyance.
In application of chrome plated thermal treatment bearing steel for return rod of driving part, which super finishing is processed, it shows strong performance for wearing at contact part.
In application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



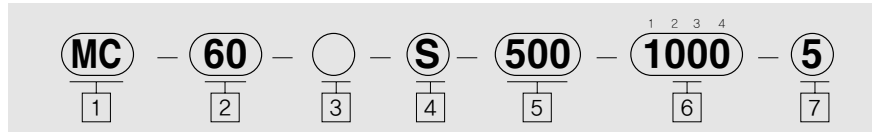
MC 60, 80, 100



Features

- Vibration-resistant belt driving module
- Combination of the best quality components
- Upgraded timing belt
- Easy maintenance
- Responding to various customer requirements such as mounting and accessory formation, etc.

Order type



1 TYPE

2 Type number
60, 80, 100

3 Block type
Non-symbol : Standard
D : Upper/Lower block

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 : No attachment
1 : Coupling Type

7 Quantity

▶ Ordering of Module

MC - 60 - [] - S - 400 - 0 - 5

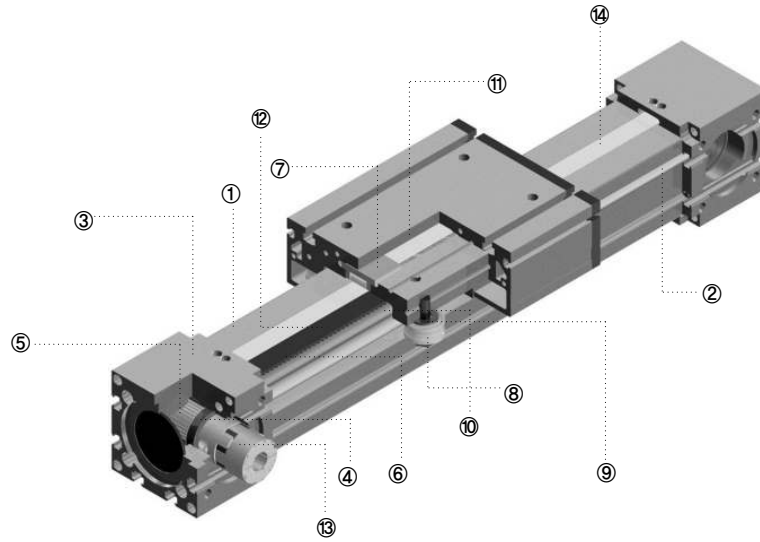
COUPLING Specification

| | | |
|------------------------------|-----------|-----|
| Position ① : Inside diameter | [] - KEY | [] |
| Position ② : Inside diameter | [] - KEY | [] |
| Position ③ : Inside diameter | 16 - KEY | 5×5 |
| Position ④ : Inside diameter | 14 - KEY | [] |

▶ 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 :) Urethane stopper
- (Model name :)
- (Reduction gear ratio :)

MC Series Specifications



► Specification of Components

| No | Specification of Components | Material | No | Component name | Material | |
|----|-----------------------------|-------------------|----|----------------|----------------|-----|
| 1 | Rail | Aluminum alloy | 8 | Track roller | Bearing steel | |
| 2 | Product No. | Bearing steel | 9 | Flat washer | | |
| | 60 | | | | | Ø10 |
| | 80 | | | | | Ø12 |
| | 100 | Ø16 | | | | |
| 3 | Pulley box | Aluminum alloy | 10 | Wiper | FELT | |
| 4 | Bearing | | 11 | Sealing | EP | |
| 5 | Timing pulley | High carbon steel | 12 | Belt clip | Bearing steel | |
| 6 | Timing belt | Urethane | 13 | Coupling | Aluminum alloy | |
| 7 | Slider | Aluminum alloy | 14 | Steel cover | Stainless | |

► Performance sheet

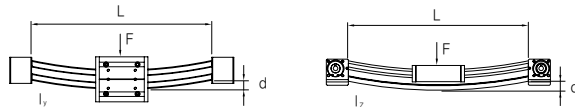
| | |
|----------------------------|-----------|
| repeating accuracy | ±0.05mm |
| Straightness of rail | 0.35mm/m |
| Parallelism between shafts | ±0.02mm/m |
| Tolerance of length | ±0.5mm |

► Rail MAX. 3000mm

► Timing belt dimension and Rail size

| Model No. | Length | Belt type | Belt width | Material of velt |
|-----------|--------|-----------|------------|---------------------------------|
| 60 | 3000 | RPP5 | 25 | Polyurethane With Steel cord |
| 80 | 4000 | RPP5 | 25 | |
| 100 | 5000 | RPP8 | 30 | |

► 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 nd moment of area [mm⁴]

MC 80



Dimensions

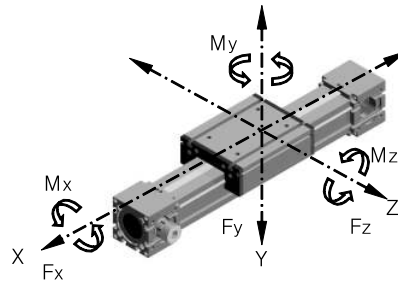
| A (M8 Nut groove) | B (M5 Nut groove) | C (M8 Nut groove) | D (M5 Semi-circle nut groove) |
|-------------------|-------------------|-------------------|-------------------------------|
| | | | |
| (S=3/1) | (S=3/1) | (S=3/1) | (S=3/1) |

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

► Technical data

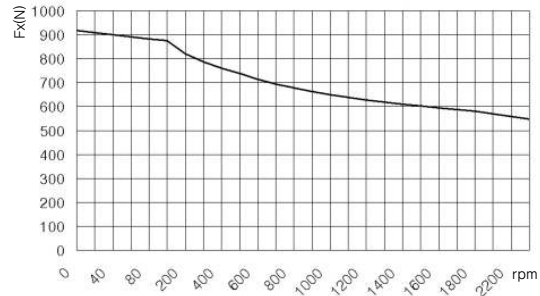
- Speed Max. 4%
- Acceleration Max. 20%
- Pulley P. C. D. 41.38mm
- Stroke per revolution ≈130mm/rev.
- No-load torque 0.65Nm
- 2nd moment of area $I_y=23.8 \times 10^6 \text{mm}^4$
 $I_x=24.5 \times 10^6 \text{mm}^4$
- Weights
- Basic weight with zero stroke 13.2kg
- Weight/100mm stroke 1.2kg

► Forces and moments



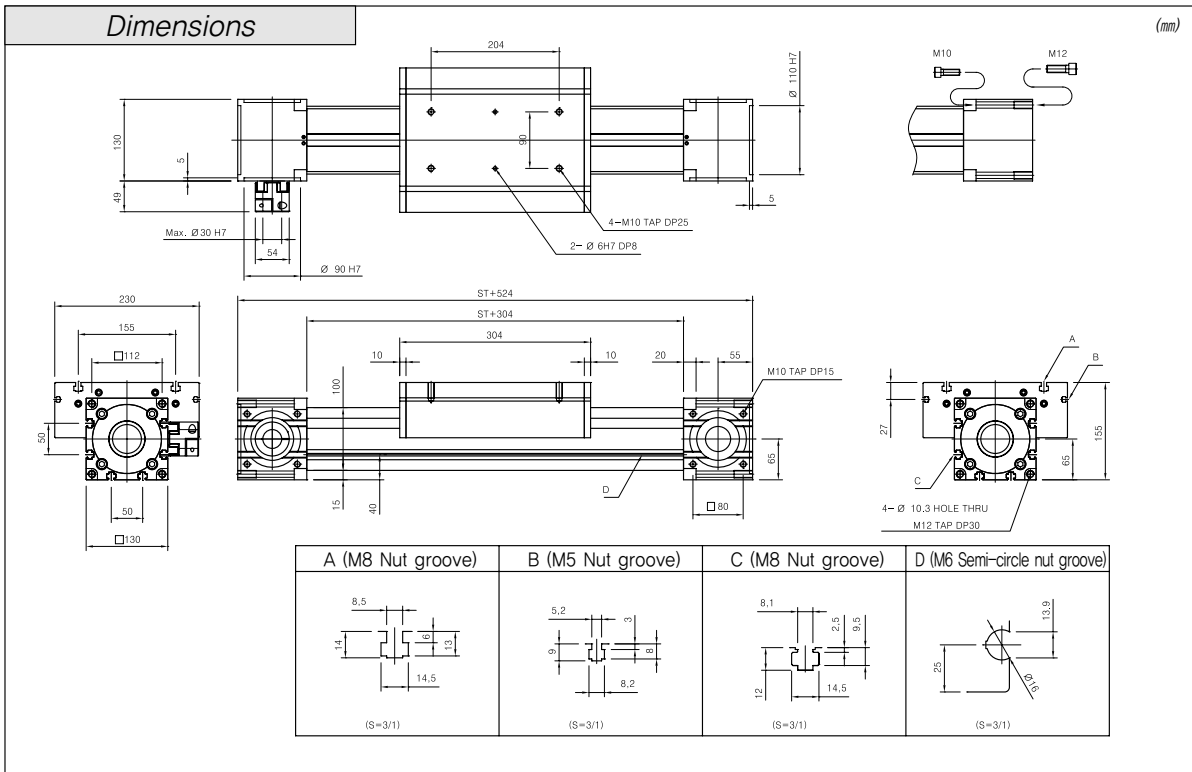
| Slider Type | Forces/Torques | F _x (N) | F _y (N) | F _z (N) | M _x (Nm) | M _y (Nm) | M _z (Nm) |
|-------------|----------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
| MC80 | STATIC | Max.910 | 1500 | 2700 | 80 | 140 | 100 |
| | DYNAMIC | | 990 | 1800 | 50 | 110 | 75 |

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



* F_x depends on speed, see respective chart.)

MC 100

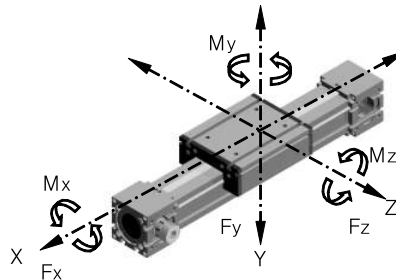


* Rails that exceed Max. rail length without joint also available on customer's request.

► Technical data

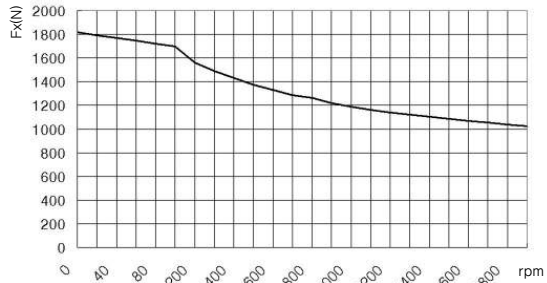
- Speed Max. 5%
- Acceleration Max. 20%
- Pulley P. C. D. 50.93mm
- Stroke per revolution $\approx 160\text{mm/rev.}$
- No-load torque 1.2Nm
- 2nd moment of area $I_y=58.4 \times 10^6 \text{mm}^4$
 $I_z=61.9 \times 10^6 \text{mm}^4$
- Weights
Basic weight with zero stroke 29.0kg
Weight/100mm stroke 1.8kg

► Forces and moments



| Slider Type | Forces/Torques | Fx (N) | Fy (N) | Fz (N) | Mx (Nm) | My (Nm) | Mz (Nm) |
|-------------|----------------|----------|--------|--------|---------|---------|---------|
| MC100 | STATIC | Max.1800 | 3300 | 7200 | 280 | 690 | 380 |
| | DYNAMIC | | 2000 | 5800 | 200 | 470 | 250 |

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

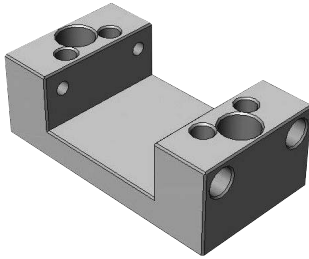


* Fx depends on speed, see respective chart.

MOUNTING BLOCK



Mounting block



- Mounting block for M and Q series
- A component for firm mounting with attaching at linear module
- High precision and strength guaranteed by one-bodied processing of aluminum alloy material
- Possible for additionally attaching along with linear module lengths

