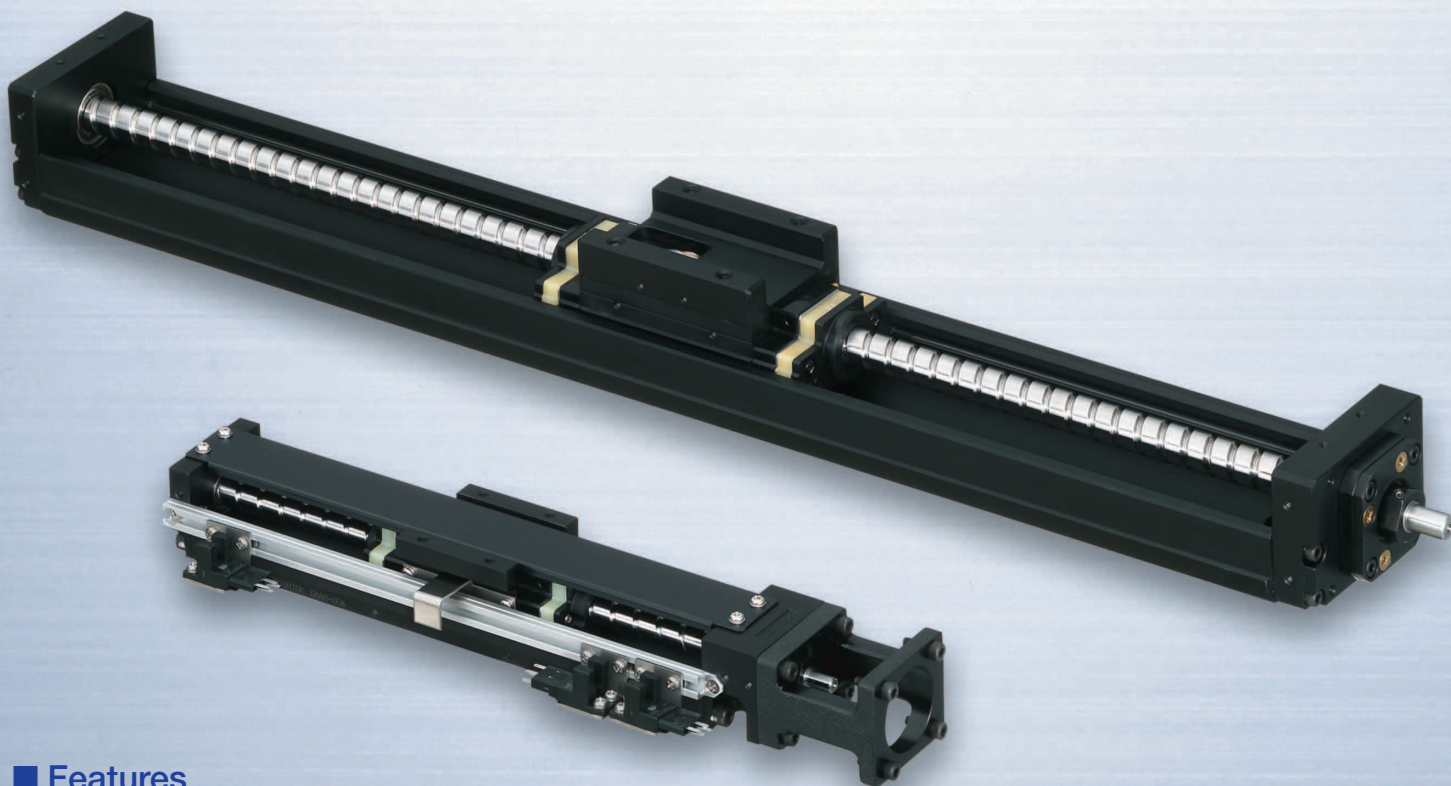


High-precision, Lightweight Actuator

Monocarrier MCM Series



Now offering prompt delivery of Monocarriers. They significantly reduce workloads for equipment design and assembly.

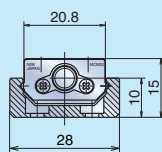


■ Features

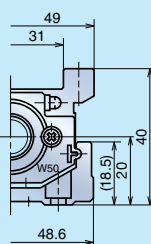
1. Monocarriers come equipped with the NSK K1® lubrication unit as a standard feature, which facilitates long-term, maintenance-free operation.
2. NSK clean grease (LG2) is optionally available for semiconductor and liquid crystal display manufacturing equipment.
3. Optional components such as motor mounting brackets, sensor units and covers are also available.

Wide variety

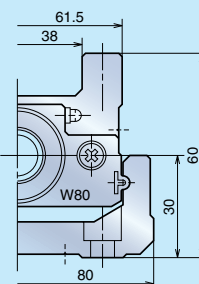
MCM02
Mass: 0.26 kg
(Stroke: 50 mm)



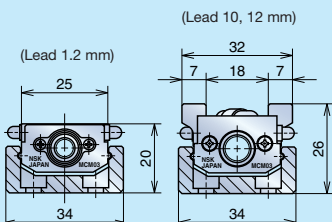
MCM05
Mass: 2.7 kg
(Stroke: 400 mm)



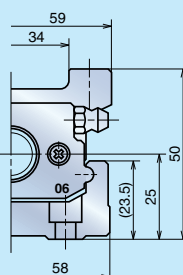
MCM08
Mass: 7.4 kg
(Stroke: 400 mm)



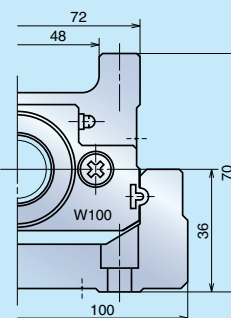
MCM03
Mass: 0.7 kg
(Stroke: 100 mm)



MCM06
Mass: 5.2 kg
(Stroke: 400 mm)

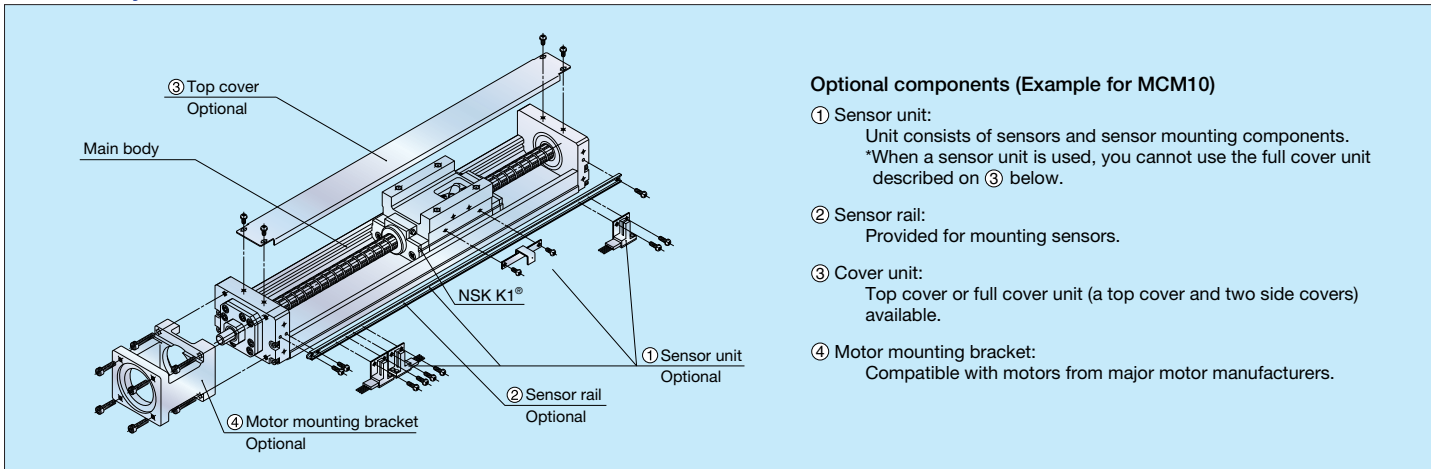


MCM10
Mass: 13.0 kg
(Stroke: 400 mm)



Monocarrier MCM Series

Assembly



Optional components (Example for MCM10)

- ① Sensor unit:
Unit consists of sensors and sensor mounting components.
*When a sensor unit is used, you cannot use the full cover unit described on ③ below.
- ② Sensor rail:
Provided for mounting sensors.
- ③ Cover unit:
Top cover or full cover unit (a top cover and two side covers) available.
- ④ Motor mounting bracket:
Compatible with motors from major motor manufacturers.

Standard combination for the stroke and ball screw lead (High grade: H)

Stroke and ball screw lead for standard single slider specification

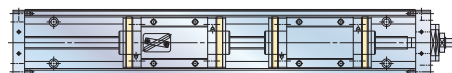
●: Standard stock item ○: Prompt delivery item

Unit: mm

Nominal size	MCM02		MCM03				MCM05			MCM06			MCM08			MCM10	
	Lead	Stroke	1	2	10	12	5	10	20	5	10	20	5	10	20	10	20
50	●	●	●	●	○	○	●	●	○	●	○	○	○	○			
100	●	●	●	●	●	●	●	○	●	●	○	○	○	○	○	○	○
150	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200					●	○	●	○	○	○	○	○	○	○	○	○	○
250					○	○	○	○	○	○	○	○	○	○	○	○	○
300							○	○	○	○	○	○	○	○	○	○	○
400							○	○	○	○	○	○	○	○	○	○	○
500							○	○	○	○	○	○	○	○	○	○	○
600							○	○	○	○	○	○	○	○	○	○	○
700										○	○	○	○	○	○	○	○
800										○	○	○	○	○	○	○	○
900															○	○	○
1 000															○	○	○

Optional specifications

1. Clean grease specification:
Packed with NSK clean grease (LG2).
2. Double slider specification:
An extra slider is provided for high load applications.
3. P grade (precision grade) specification:
Repeatability: $\pm 3 \mu\text{m}$.
4. Assembly of optional components:
We assemble optional components upon request.



Reference number coding

The reference number is composed of codes representing typical specifications as shown below.

Main body

Reference number: **MC M 08 040 H 10 K 0 0**

Monocarrier
Type code (M: MCM main body)
Nominal size (rail width, unit: 10 mm)
Stroke (unit: 10 mm)
Accuracy grade (H: High grade, P: Precision grade)

NSK management number
Standard grease: 0 (AS2)
Grease: B (LG2)
Slider specification (K: Single slider, D: Double slider)
Ball screw lead (mm)

Assembly with optional components

Reference number: **MC E 08 040 H 10 K 0 0 K 0 0 0**

Type code (E: MCM assembly with optional components)

① Sensor unit (0 to 4)
② Cover unit (0 to 2)
③ Motor mounting bracket (0 to 8)

Optional components

① Sensor unit

Sensor code	Type of sensor unit	Sensor used
0	N/A	
1	Proximate sensor (Normally closed)	E2S-W14 (3 pieces)
2	Proximate sensor (Normally open)	E2S-W13 (3 pieces)
3	Proximate sensor (Normally open, Normally closed)	E2S-W13 (1 piece), E2S-W14 (2 pieces)
4	Photosensor	EE-SX674 (3 pieces)

- Sensors are made by Omron Electronic Components.
- Photosensors are provided with connector (EE-1001).

② Cover unit

Cover code	Type of cover unit
0	N/A
1	Assembly with top cover
2	Assembly with full cover

- When a sensor unit is used, you cannot use a full cover unit.

③ Motor mounting bracket

Several types of motor brackets are available. Those are compatible with the motors from major manufacturers, including Yasukawa Electric, Mitsubishi Electric, Matsushita Electric Industrial, Sanyo Denki, Omron Electronic Components, and Oriental Motor. Consult NSK for details on dimensions.

For more information about NSK products, please contact: www.nsk.com



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