

# MONOCARRIER SPECIFICATION SHEET FOR NEW APPLICATIONS



Customer Name:

Customer POC:

Customer Email:

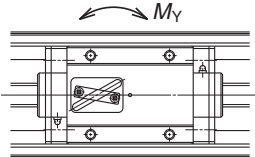
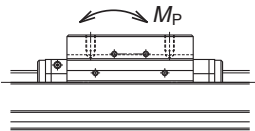
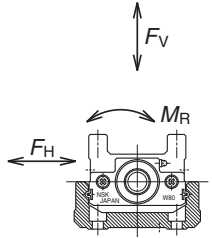

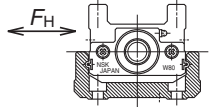
Application:

Date:

PO Number:

Customer Phone:

ex: machine tool, transport, etc.

<u>Speed and Travel:</u>	<u>Environment:</u>	<u>Load Conditions:</u>
<p>Stroke: mm</p> <p>Stroke Time (t): sec</p> <p>Max Speed: m/min</p> <p>Acceleration: m/s<sup>2</sup></p> <p>Ramp Time (t1): sec</p>	<p>Temperature Range: deg C / deg F</p> <p>General Industry</p> <p>Wash Down</p> <p>Clean Room</p> <p>Vacuum</p> <p>Outside Use</p> <p>Splash</p> <p>Corrosive</p> <p>High Humidity</p> <p>Contaminated</p> <p>Food/Medical</p> <p>Other Comments:</p>	<p>Mounting Postion: (horizontal/vertical)</p> <p>Moment (Yaw): N-m </p> <p>Moment (Pitch): N-m </p> <p>Moment (Roll): N-m </p> <p>Vertical Force: N </p> <p>Horizontal Force: N </p>
<p style="text-align: center;"><u>Duty Cycle:</u></p> <p>Life Expectation: (years)</p> <p>Cycles per Hour:</p> <p>Operating Hours: (per day)</p> <p>Operating Days: (per year)</p>		

Application Details (Please enter any other special considerations not covered):

# MONOCARRIER SIZING SPECIFICATION SHEET



Customer Name:

Date:

Customer POC:

PO Number:

Customer Email:

Customer Phone:

Application:

ex: machine tool, transport, etc.

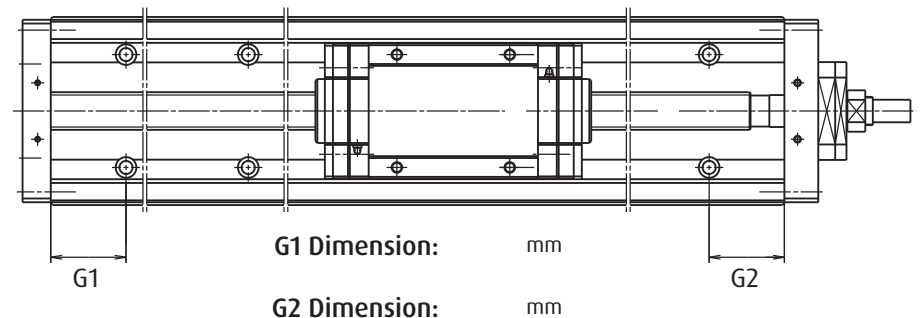
Series:	MCM	MCH	Size:	
Stroke:	mm		Accuracy Grade:	H or P
Lead:	mm		Sliders:	1 or 2
Grease:	AS2 (Standard)	LG2		
Surface Treatment:				
Part Number:				
Quantity:				

**Accessories:**

<b>NPN Proximity Sensors</b>	<b>Motor Bracket</b>
Normally Closed (NC)	NEMA 17
Normally Opened (NO)	NEMA 23
1 NC and 2 NO	1/4" shaft      3/8" shaft
	NEMA 34
<b>NPN Photo Sensor</b>	3/8" shaft      1/2" shaft
<b>Sensor Rail</b>	Other (please provide drawing)
<b>Monocarrier Cover Unit</b>	



Additional Details (motor brand, number of sensors, etc.)

Comments:



# MONOCARRIER EXPLANATION OF TERMS



Item	Appearance	Outline	Main Application
MCM		Lightweight is the special feature of this type of Monocarrier. It suits well for a vertical axis of material handling robots.	<ul style="list-style-type: none"> <li>• Equipment that needs to reduce the weight</li> <li>• Substitution for pneumatic actuator</li> <li>• Robots</li> <li>• Transporting equipment</li> <li>• Measuring machine</li> <li>• Equipment for factory automation</li> <li>• etc.</li> </ul>
MCH		This type consists of a stiff rail so that it can be a structural beam.	<ul style="list-style-type: none"> <li>• Equipment that needs to reduce the weight</li> <li>• Substitution for pneumatic actuator</li> <li>• Robots</li> <li>• Transporting equipment</li> <li>• Measuring machine</li> <li>• Equipment for factory automation</li> <li>• etc.</li> </ul>

## Accuracy Grade

The accuracy grade of Monocarrier™ standard inventories is high grade (H), except for lead 1 and 2 mm of MCM02 and MCM03. When you require strokes longer than 1,200 mm, please consult NSK about the accuracy grade.

Grade	High Grade			Precision				
	Stroke (mm)	Repeatability	Running Parallelism (vertical)	Backlash	Repeatability	Positioning accuracy	Running Parallelism (vertical)	Backlash
	~200	±10	14	20 or less	± 3	20	8	3 or less
	~400		16			25	10	
	~600		20			30	12	
	~700		23			30	15	
	~1,000		23			35	15	
	~1,200		30			40	20	

