



BELT DRIVEN ACTUATORS > MSA-SB1 BELT DRIVE

MSA-SB1 BELT DRIVE



MSA-SB1 OPTIONS

SHAFT TYPE

Single

Double

DRIVE SHAFT LOCATION

1

2

3

4



TRAVELS

(Min 150mm - Max 5750mm)

OPTIONS FOR:

Motor Mounting

Sensors

Gearbox

HOW TO BUILD YOUR MSA-SB1:

MSA - SB1 - B - GB - **x0x-x**

Shaft Type

Drive Shaft Location

Travels

Macron Solutions Since 1987

MACRON DYNAMICS, INC.

100 Phyllis Drive

Croydon, PA 19021

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1-800-MACRON-1 (1-800-622-7661)

Phone: 267-557-3590

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Macron Guarantee

All Macron actuators and belt drives are covered by our

1-Year Warranty



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SPECIFICATIONS

Specifications	
Motion	Horizontal or Vertical
Max Speed - horizontal [vertical] - mm / sec	5050 [2525]
Max Load - horizontal [vertical] - lbs.	100 [50]
Repeatability - mm	+/-0.025
Moment Load Max - in. - lbs. [Nm]	NONE
Positional Accuracy - mm / meter	+/- 0.4
Acceleration max - G's	5
Beam Dimensions - mm	28 x 56
Ultimate tensile strength of belts - lbs. [N]	800 [3559]
Recommended belt running load - lbs. [N]	200 [889]
Cart Guide	NONE
Motor Sizing Information	
Weight of Drive Pulley - oz. / kgs.	4.7 / 0.13
Weight of Idler Pulley - oz. / kgs.	4.3 / 0.12
Weight of Cart - lbs. / kgs.	N/A
Weight of Belt - kgs. based on travel selected	((Travel in meters x 2) + 0.32) x 0.04
Travel per Revolution - mm	105
Pulley Pitch Diameter - mm	33.42
Pulley Material / Width - mm	steel / 12
Breakaway Torque - oz. - in.	N/A
Coefficient Friction	N/A
Rolling Resistance - lbs. / kgs.	N/A

SPECIFICATIONS

Weight	
Weight - min. travel unit (150 mm) - lbs. / kgs.	5.5 / 2.5
Weight - additional 25 mm of travel - lbs. / kgs.	0.08 / 0.04
Travels	
Standard Travels - min max - mm (25 mm increment)	150 / 5750

Features

- Extruded aluminum actuator body with T-slots for ease of mounting
- Easy to adjust belt tensioner
- One piece, machined and stress proof shafted pulley
- Zero backlash belt to pulley design
- Corrosion resistant components

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