



BELT DRIVEN ACTUATORS > MSA-SB1 BELT DRIVE

# MSA-SB1 BELT DRIVE

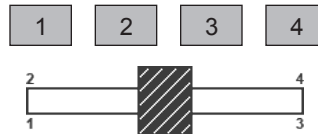


## MSA-SB1 OPTIONS

### SHAFT TYPE

- Single
- Double

### DRIVE SHAFT LOCATION



### TRAVELS

(Min 150mm - Max 5750mm)

### OPTIONS FOR:

- Motor Mounting
- Sensors
- Gearbox

### HOW TO BUILD YOUR MSA-SB1:



### Macron Solutions Since 1987

MACRON DYNAMICS, INC.      1-800-MACRON-1 (1-800-622-7661)  
 100 Phyllis Drive      Phone: 267-557-3590  
 Croydon, PA 19021      Fax: 215-443-0981  
 © 2014 MACRON DYNAMICS, INC.

### Macron Guarantee

All Macron actuators and belt drives are covered by our  
 1-Year Warranty



BELT DRIVEN ACTUATORS > MSA-SB1 BELT DRIVE

# MSA-SB1 BELT DRIVE

## SPECIFICATIONS

### Specifications

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

## SPECIFICATIONS

### Weight

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

### 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

### Macron Solutions Since 1987

MACRON DYNAMICS, INC.  
 100 Phyllis Drive  
 Croydon, PA 19021  
 © 2014 MACRON DYNAMICS, INC.

1-800-MACRON-1 (1-800-622-7661)  
 Phone: 267-557-3590  
 Fax: 215-443-0981

### Macron Guarantee

All Macron actuators and belt drives are covered by our  
 1-Year Warranty