



BELT DRIVEN ACTUATORS > MSA-R20 ACTUATOR

MSA-R20 ACTUATOR



MSA-R20 OPTIONS

SHAFT TYPE

Single

Double

DRIVE SHAFT LOCATION

1

2

3

4



TRAVELS

(Min 150mm - Max 5575mm)

OPTIONS FOR:

Motor Mounting

Sensors

Gearbox

HOW TO BUILD YOUR MSA-R20:

MSA - R20 - G - BC - **X0** **X** - **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)
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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	5000 [5000]
Max Load - horizontal [vertical] - lbs.	1000 [300]
Repeatability - mm	+/-0.025
Moment Load Max - in. - lbs. [Nm]	1062 [120]
Positional Accuracy - mm / meter	+/- 0.4
Acceleration max - G's	10
Beam Dimensions - mm	80 x 80
Cart Guide	Linear bearing with profile rail
Motor Sizing Information	
Weight of Drive Pulley - oz. / kgs.	11.3 / 0.32
Weight of Idler Pulley - oz. / kgs.	7.7 / 0.22
Weight of Cart - lbs. / kgs.	4.0 / 1.81
Weight of Belt - kgs. based on travel selected	$((\text{Travel in meters} \times 2) + 0.47) \times 0.12$
Travel per Revolution - mm	150
Pulley Pitch Diameter - mm	47.74
Pulley Material / Width - mm	steel / 25
Breakaway Torque - oz. - in.	26 - 28
Coefficient Friction	0.05
Rolling Resistance - lbs. / kgs.	N/A

SPECIFICATIONS

Weight	
Weight - min. travel unit (150 mm) - lbs. / kgs.	15.0 / 6.8
Weight - additional 25 mm of travel - lbs. / kgs.	0.75 / 0.034
Travels	
Standard Travels - min max - mm (25 mm increment)	150 / 5575

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
- Two 20 series linear bearings with single covered steel profile rail
- Zero backlash belt to pulley design
- Corrosion resistant components

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