



BELT DRIVEN ACTUATORS > MSA-NBC ACTUATOR

MSA-NBC ACTUATOR



MSA-NBC OPTIONS

SHAFT TYPE

Single

Double

DRIVE SHAFT LOCATION

1

2

3

4



TRAVELS

(Min 150mm - Max 5600mm)

OPTIONS FOR:

Motor Mounting

Sensors

Gearbox

HOW TO BUILD YOUR MSA-NBC:

MSA - NBC - 0 - GB - x 0 x - x

Shaft Type

Drive Shaft Location

Travels



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



BELT DRIVEN ACTUATORS > MSA-NBC ACTUATOR

MSA-NBC ACTUATOR

SPECIFICATIONS

Specifications	
Motion	Horizontal or Vertical
Max Speed - horizontal [vertical] - mm / sec	2540 [1270]
Max Load - horizontal [vertical] - lbs.	100 [50]
Repeatability - mm	+/-0.025
Moment Load Max - in. - lbs. [Nm]	300 [34]
Positional Accuracy - mm / meter	+/- 0.4
Acceleration max - G's	5
Beam Dimensions - mm	56 x 56
Cart Guide	Plastic rollers in aluminum channel
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.	0.9 / 0.41
Weight of Belt - kgs. based on travel selected	$((\text{Travel in meters} \times 2) + 0.32) \times 0.04$
Travel per Revolution - mm	105
Pulley Pitch Diameter - mm	33.42
Pulley Material / Width - mm	steel / 12
Breakaway Torque - oz. - in.	30 - 32
Coefficient Friction	N/A
Rolling Resistance - lbs. / kgs.	0.002 / 0.001

SPECIFICATIONS

Weight	
Weight - min. travel unit (150 mm) - lbs. / kgs.	4.0 / 1.8
Weight - additional 25 mm of travel - lbs. / kgs.	0.08 / 0.04
Travels	
Standard Travels - min max - mm (25 mm increment)	150 / 5600

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
- Delrin, needle bearing rollers in extruded aluminum channel
- Zero backlash belt to pulley design
- Corrosion resistant components

Macron Solutions Since 1987

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

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

© 2014 MACRON DYNAMICS, INC.

Macron Guarantee

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