

# MacSTANDARD Multi-Axis

Standard Gantries, T-Bots, H-Bots & Multi-Axis Systems



## HBG-25 Gantry

Configuration: **X/Y H-Bot**  
Designation: **HBG-25**  
Max Load: **50 lbs.**  
Standard X Travels: **500 to 2000 mm**  
Standard Y Travels: **500 to 1000 mm**

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## TBG-25 Gantry

Configuration: **X/Z T-Bot**  
Designation: **TBG-25**  
Max Load: **50 lbs.**  
Standard X Travels: **500 to 2000 mm**  
Standard Z Travels: **250 to 500 mm**

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## MGS-14S X/Y Gantry

Configuration: **Dual X / Y**  
Designation: **MGS-14S**  
Max Load: **150 lbs.**  
Standard X Travels: **311 to 1811 mm**  
Standard Y Travels: **311 to 1811 mm**

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## MGS-14L Dual X/Y Gantry

Configuration: **Dual X / Dual Y**  
Designation: **MGS-14L**  
Max Load: **300 lbs.**  
Standard X Travels: **264 to 1514 mm**  
Standard Y Travels: **311 to 1811 mm**

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## MGS-14H Cartesian X/Y/Z Gantry

Configuration: **Dual X / Dual Y / Z**  
Designation: **MGS-14H**  
Max Load: **200 lbs.**  
Standard X Travels: **1000 to 2000 mm**  
Standard Y Travels: **1000 to 2000 mm**  
Standard Z Travels: **500 to 1000 mm**

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# MacSTANDARD Linear Actuators & Belt Drives

Standard Models, Configurable Options, Exceptional Quality

## MODELS

## SPECIFICATIONS



### MSA-14S Actuator

Motion:

Standard Travels:

Max Load Horizontal (Vertical):

Max Speed Horizontal (Vertical):

Repeatability:

Moment Load:

Break Away Torque:

Horizontal or Vertical

311 to 1811 mm

200 lbs (100 lbs)

10160 mm/sec (5080 mm/sec)

+/- 0.025 mm

100# @ 406 mm off CL

42-44 oz.-in



### MSA-14H Actuator

Motion:

Standard Travels:

Max Load Horizontal (Vertical):

Max Speed Horizontal (Vertical):

Repeatability:

Moment Load:

Break Away Torque:

Horizontal or Vertical

369 to 1619 mm

400 lbs (300 lbs)

10160 mm/sec (5080 mm/sec)

+/- 0.025 mm

200# @ 406 mm off CL

196-200 oz.-in



## MSA-PSC Actuator



Motion:	Horizontal or Vertical
Standard Travels:	271 to 1771 mm
Max Load Horizontal (Vertical):	20 lbs (20 lbs)
Max Speed Horizontal (Vertical):	1270 mm/sec (635 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	5# @ 150 mm off CL
Break Away Torque:	12-14 oz.-in

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## MSA-NBC Actuator



Motion:	Horizontal or Vertical
Standard Travels:	325 to 1825 mm
Max Load Horizontal (Vertical):	100 lbs (50 lbs)
Max Speed Horizontal (Vertical):	2540 mm/sec (1270 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	50# @ 150 mm off CL
Break Away Torque:	30-32 oz.-in



## MSA-628 Actuator

Motion:	Horizontal or Vertical
Standard Travels:	242 to 1992 mm
Max Load Horizontal (Vertical):	25 lbs (25 lbs)
Max Speed Horizontal (Vertical):	5080 mm/sec (2540 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	10# @ 150 mm off CL
Break Away Torque:	8-10 oz.-in



## MSA-M6S Actuator

Motion:	Horizontal or Vertical
Standard Travels:	419 to 1919 mm
Max Load Horizontal (Vertical):	50 lbs (50 lbs)
Max Speed Horizontal (Vertical):	10160 mm/sec (5080 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	10# @ 150 mm off CL
Break Away Torque:	30-32 oz.-in



## MSA-135 Actuator

Motion:	Horizontal or Vertical
Standard Travels:	210 to 1710 mm
Max Load Horizontal (Vertical):	500 lbs (250 lbs)
Max Speed Horizontal (Vertical):	5080 mm/sec (5080 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	250# @ 300 mm off CL
Break Away Torque:	32-36 oz.-in



## MSA-R20 Rail Actuator

Motion:	Horizontal or Vertical
Standard Travels:	247 to 1747 mm
Max Load Horizontal (Vertical):	400 lbs (300 lbs)
Max Speed Horizontal (Vertical):	10160 mm/sec (5080 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	250# @ 406 mm off CL
Break Away Torque:	26-28 oz.-in





## MSA-SB1 Belt Drive

Motion:

Standard Travels:

Max Load Horizontal (Vertical):

Max Speed Horizontal (Vertical):

Repeatability:

Moment Load:

Break Away Torque:

Horizontal or Vertical

215 to 1965 mm

100 lbs (50 lbs)

5050 mm/sec (2525 mm/sec)

+/- 0.025 mm

0# @ 0 mm off CL

- oz.-in



## MSA-SB2 Belt Drive

Motion:

Standard Travels:

Max Load Horizontal (Vertical):

Max Speed Horizontal (Vertical):

Repeatability:

Moment Load:

Break Away Torque:

Horizontal or Vertical

184 to 1934 mm

500 lbs (250 lbs)

10160 mm/sec (5080 mm/sec)

+/- 0.025 mm

0# @ 0 mm off CL

- oz.-in



### MSA-SB5 Belt Drive

Motion:	Horizontal or Vertical
Standard Travels:	372 to 1872 mm
Max Load Horizontal (Vertical):	1000 lbs (500 lbs)
Max Speed Horizontal (Vertical):	10160 mm/sec (5080 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	0# @ 0 mm off CL
Break Away Torque:	- oz.-in



### MSA-SBH Belt Drive

Motion:	Horizontal or Vertical
Standard Travels:	205 to 1705 mm
Max Load Horizontal (Vertical):	2500 lbs (1250 lbs)
Max Speed Horizontal (Vertical):	15240 mm/sec (7620 mm/sec)
Repeatability:	+/- 0.025 mm
Moment Load:	0# @ 0 mm off CL
Break Away Torque:	- oz.-in



# MacSTANDARD Screw Driven Actuators



## MSA-PSS Actuator

Nut Type:	Lead Nut
Max Speed:	180 in./min.
Max Load:	25 lbs.
Repeatability:	+/- 0.01
Standard Travels:	102 to 305 mm

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## MSA-SRT Actuator

Nut Type:	Ball Screw
Max Speed:	600 in./min.
Max Load:	50 lbs.
Repeatability:	+/- 0.005
Standard Travels:	160 to 640 mm

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## MSA-DRT Actuator

Nut Type:	Ball Screw
Max Speed:	600 in./min.
Max Load:	75 lbs.
Repeatability:	+/- 0.005
Standard Travels:	160 to 640 mm

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## MSA-DRT with Bellows

Nut Type:	Ball Screw
Max Speed:	600 in./min.
Max Load:	75 lbs.
Repeatability:	+/- 0.005
Standard Travels:	160 to 640 mm

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**MacBuilt products are made to your specifications and standards.**

- Belt and Ball Screw Linear Actuators
- Linear Multi-Axis Systems
- Marine & Wash-down systems
- Robotic 7<sup>th</sup> Axis Systems
- Gantry

***Motion Solutions Since 1987***

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## ***Lifetime Guarantee***

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