LINEAR ROBOTICS > X/Z HEAVY DUTY GANTRY ROBOTS > MGS-UC4

## MGS-UC4



## **MGS-UC4 OPTIONS**

#### X AXIS NOMINAL STANDARD TRAVEL (MM)

1000 1500 2000 2500 3000 3250 Custom

#### **Z AXIS NOMINAL STANDARD TRAVEL** (MM)

250 500 750 1000 Custom

#### **OPTIONS FOR:**

Sensors Gearbox Ratios

#### **HOW TO BUILD YOUR MGS-UC4:**



Note: See mounting notes below for mounting relationship to payloads.













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#### MOUNTING NOTES AND PAYLOAD RELATIONSHIP TABLE

X Axis Travels (mm)	Mounting Style	Acceptable Payload (Ibs)
1000	'X' Axis Beams	200
1500	Mounted At Ends of Actuators	20
2000		
2500	'X' Axis Beams Require Supporting	200
3000	Structure Over Actuator Length	300
3250		

### **SPECIFICATIONS**

Specifications	•
Maximum Speed - mm/sec - X Axis [Z Axis]	10162 [10160]
Unsupported X Axis Travels - mm (in steps of 500mm)	1000 to 1500
Unsupported Payload - lbs. (Dependant on X Axis travel)	20 to 300
Supported X Axis Travels - mm (in steps of 500mm)	2000 to 3250
Maximum Payload - Ibs.	300
Z Axis Travels - mm (in steps of 250mm)	250 to 1000
Repeatability - mm	+/-0.025
Positional Accuracy - mm / meter	+/-0.4
Acceleration Max G's (dependant on payload)	1 to 2
••••••••	

#### **SPECIFICATIONS**

Motor Sizing Information	
Weight of single shafted 40-25 drive pulley- 11.3oz.	N/A
Weight of double shafted 40-25 drive pulley- 17oz.	N/A
Weight of 40-25 idler pulley - 7.7oz.	N/A
Weight of single shafted 40-50 drive pulley- 28.4oz.	X & Z axis
Weight of 40-50 idler pulley - 26.4oz.	X axis
Weight of Z Axis Beam - lbs. (dependant on travel)	73 to 117
Weight of Complete Z Axis - lbs. (dependant on travel)	224 to 295
Travel per Revolution - mm	150
Pulley Pitch Diameter - mm	47.74
Pulley Material / Width - mm	steel / 50
Rolling Resistance - lbs. (worst case with max payload)	0.86
Weight	
Weight - lbs. (dependant on travels)	385 to 564
<b>Sizing</b> - See mounting notes and payload relationship tab	le for guidance
X Axis Nominal Length Standard Unsupported - m	**1.5
X Axis Nominal Standard Travels - mm	*1000 to 3250
Z Axis Nominal Standard Travels - mm	*250 to 1000

<sup>\*</sup> note: axes may be configured in lengths shorter or longer than standard

#### **Macron Solutions Since 1987**

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Macron Guarantee

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

<sup>\*\*</sup> note: for legnths longer than standard contact Macron for a MacBUILT option