

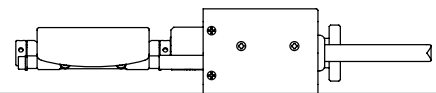
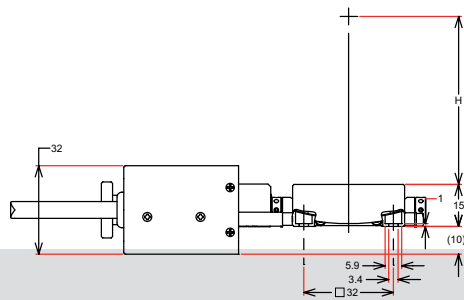
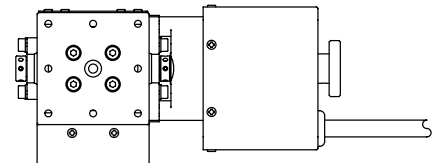
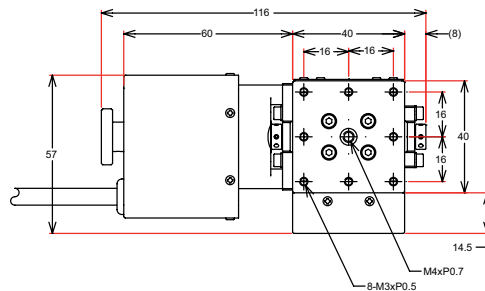
## Extended Contact Bearing Motorized Goniometers

- New manufacturing process allows extended contact bearing ways to be machined into the body of the stage, making the goniometer simpler, smaller and stronger.
- Centering accuracy is 10x better than typical dovetail goniometers.
- Available in right hand or left hand configurations.
- Stainless steel body.
- Centering pin for aligning two axis stacks.
- 5 phase motors compatible with all PAT and SHOT controllers.



Part No. 514-4060/4075

Part No. 514-4060-R/4075-R



EXTENDED CONTACT BEARING MOTORIZED GONIOMETER 40MM

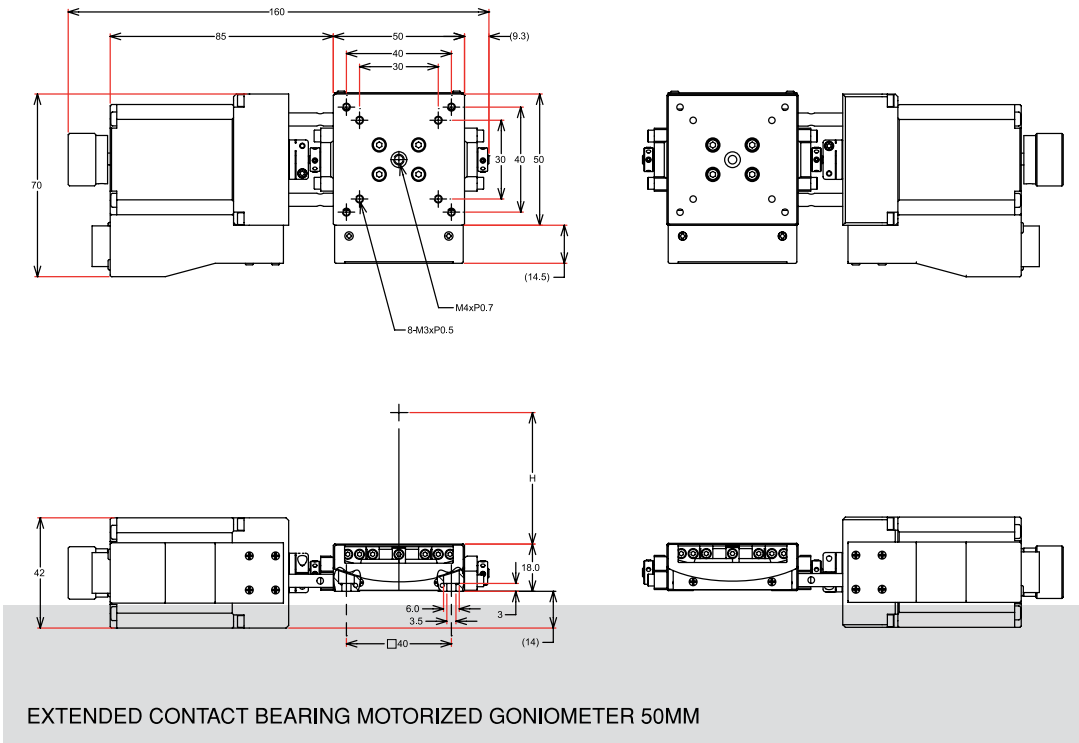
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Part No. 514-5050/5068/5086

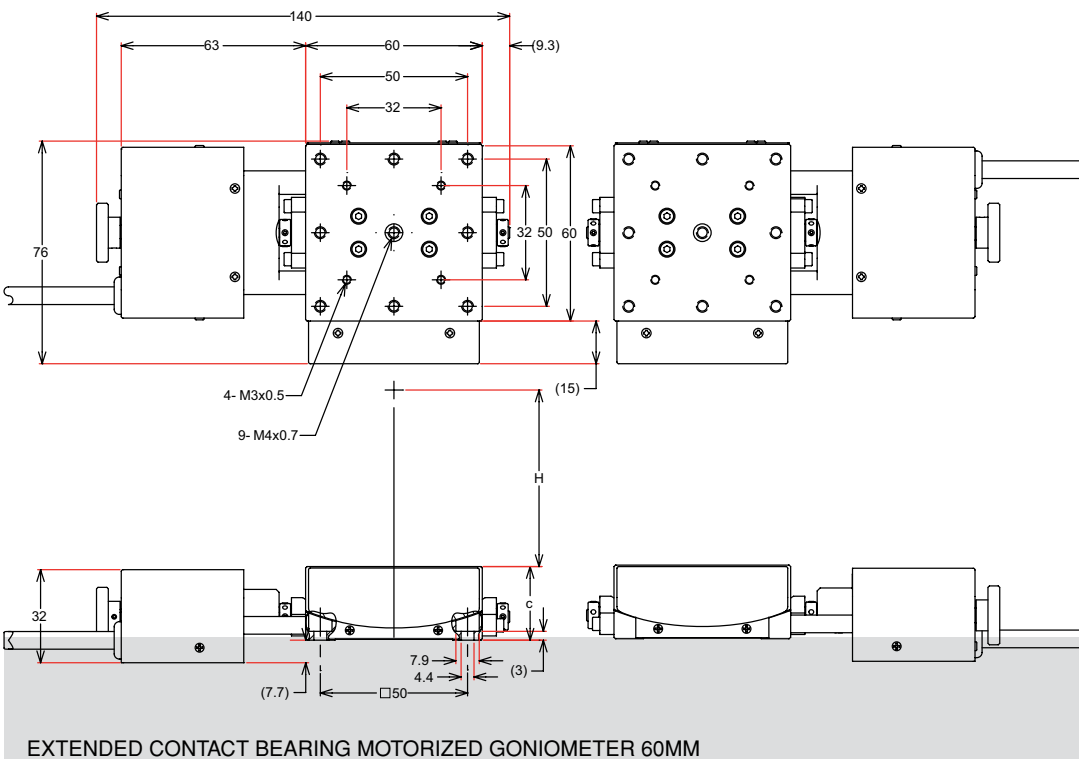
Part No. 514-5050-R/5068-R/5086-R

- Piezo Stages
- Linear Stages
- Rotation Stages
- ZF Stages
- Motorized Optics Holders
- Goniometers**
- GS Closed Loop Stages
- Controllers & Drivers
- Cables & Accessories
- Software



Part No. 514-6010/6060/6085

Part No. 514-6010-R/6060-R/6085-R



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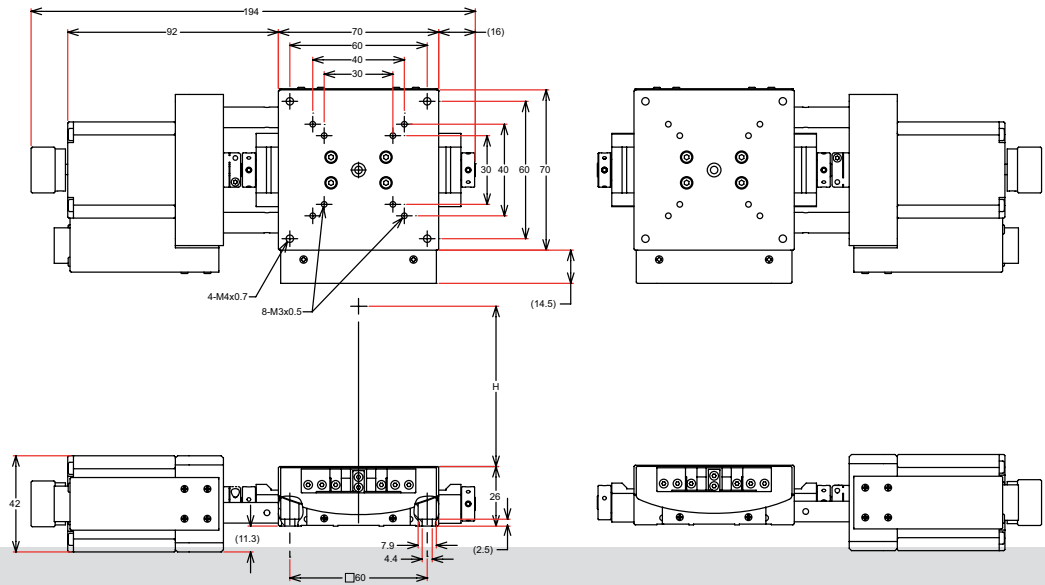


**MOTOR STAGES**

- Piezo Stages
- Linear Stages
- Rotation Stages
- ZF Stages
- Motorized Optics Holders
- Goniometers**
- GS Closed Loop Stages
- Controllers & Drivers
- Cables & Accessories
- Software

Part No. 514-7012/7070/7096

Part No. 514-7012-R/7070-R/7096-R



EXTENDED CONTACT BEARING MOTORIZED GONIOMETER 70MM



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Becoming your OEM supplier means winning your trust, both in our products and in our people. We like to build relationships with our customers by visiting with you in person to better understand all of your production requirements.



Drawings including 3D models are available upon request for opto-mechanical and motorized products

### Specifications & Tolerances

Guide Extended	Contact Ball Bearing
Stage material	Stainless Electroless Ni
Rotation center displacement	<0.01mm
Positional Repeatability	0.008°
Lost motion	0.02°

- Piezo Stages
- Linear Stages
- Rotation Stages
- ZF Stages
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- Goniometers**
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$$\text{Resolution (arc seconds per Full Step)} = \frac{1 \text{ Stage Rev}}{G \text{ Motor Rev}} \times \frac{1 \text{ Motor Rev}}{500 \text{ Full Steps}} \times \frac{360^\circ}{1 \text{ Stage Rev}} \times \frac{3600 \text{ arc-sec}}{1^\circ},$$

where 1/G is the gear ratio of the worm gear.

### Extended Contact Bearing Motorized Goniometers

Table Size	Stage Height, c (mm)	Rotation Center Height, H (±0.1 mm)	Travel (°)	Load Capacity (Kg)	Max. Speed (°/sec)	Resolution arcsec	Stiffness (arcsec/N*cm)	Price	Model	PART NUMBER
40 x 40	15	60	±5	2	10	7.8	0.6	\$ 1,475.00	GOHTM-40A60	<b>514-4060</b>
40 x 40	15	60	±5	2	10	7.8	0.6	\$ 1,475.00	GOHTM-40A60R	<b>514-4060-R</b>
40 x 40	15	75	±4	2	10	6.4	0.6	\$ 1,475.00	GOHTM-40A75	<b>514-4075</b>
40 x 40	15	75	±4	2	10	6.4	0.6	\$ 1,475.00	GOHTM-40A75R	<b>514-4075-R</b>
50 x 50	18	50	±10	3	8.9	11.2	0.4	\$ 1,650.00	GOHTM-50A50	<b>514-5050</b>
50 x 50	18	50	±10	3	8.9	11.2	0.4	\$ 1,650.00	GOHTM-50A50R	<b>514-5050-R</b>
50 x 50	18	68	±8	3	8.9	8.6	0.4	\$ 1,650.00	GOHTM-50A68	<b>514-5068</b>
50 x 50	18	68	±8	3	8.9	8.6	0.4	\$ 1,650.00	GOHTM-50A68R	<b>514-5068-R</b>
50 x 50	18	86	±6	3	8.9	6.9	0.4	\$ 1,650.00	GOHTM-50A86	<b>514-5086</b>
50 x 50	18	86	±6	3	8.9	6.9	0.4	\$ 1,650.00	GOHTM-50A86R	<b>514-5086-R</b>
60 x 60	25	60	±14	3	10	10.5	0.3	\$ 1,625.00	GOHTM-60A60	<b>514-6060</b>
60 x 60	25	60	±14	3	10	10.5	0.3	\$ 1,625.00	GOHTM-60A60R	<b>514-6060-R</b>
60 x 60	20	85	±9	3	8	8.3	0.3	\$ 1,625.00	GOHTM-60A85	<b>514-6085</b>
60 x 60	20	85	±9	3	8	8.3	0.3	\$ 1,625.00	GOHTM-60A85R	<b>514-6085-R</b>
60 x 60	20	105	±7	3	6.6	6.8	0.3	\$ 1,625.00	GOHTM-60A105	<b>514-6010</b>
60 x 60	20	105	±7	3	6.6	6.8	0.3	\$ 1,625.00	GOHTM-60A105R	<b>514-6010-R</b>
70 x 70	26	70	±10	5	7.8	9.5	0.1	\$ 1,695.00	GOHTM-70A70	<b>514-7070</b>
70 x 70	26	70	±10	5	7.8	9.5	0.1	\$ 1,695.00	GOHTM-70A70R	<b>514-7070-R</b>
70 x 70	26	96	±8	5	6	7.2	0.1	\$ 1,695.00	GOHTM-70A96	<b>514-7096</b>
70 x 70	26	96	±8	5	6	7.2	0.1	\$ 1,695.00	GOHTM-70A96R	<b>514-7096-R</b>
70 x 70	26	122	±6	5	4.8	5.8	0.1	\$ 1,695.00	GOHTM-70A122	<b>514-7012</b>
70 x 70	26	122	±6	5	4.8	5.8	0.1	\$ 1,695.00	GOHTM-70A122R	<b>514-7012-R</b>

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