

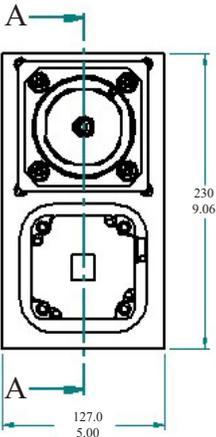
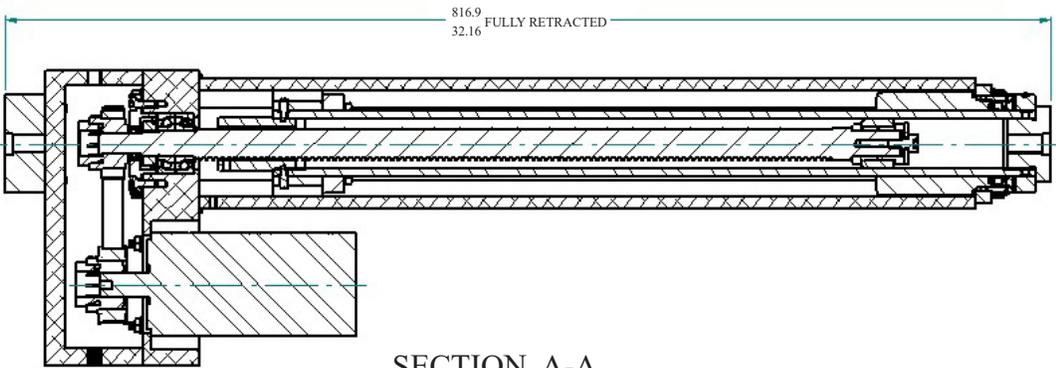


A2000 Actuator

Mikrolar actuators are repeatable, accurate, stiff and durable. They are designed for the most challenging industrial applications and environments. Each of our actuators can also be customized to fit your application. Just let us know about any specific stroke, load, speed or footprint requirements. Our actuators can fit virtually any motor or gearbox the customer requires.

A Series:	INCH	METRIC
Stroke	16 in	406.4 mm
Screw Diameter	1 in	25 mm
Screw Lead: 5mm std (2mm & 10mm optional)	.20 in	5 mm
Max Velocity	12 in/sec	304.8 mm/sec
Nominal Velocity	8 in/sec	203.2 mm/sec
Dynamic Load Rating	3756 lbs	1704 kg
Max Static Load	5690 lbs	2581 kg
Weight (w/out motor)	66 lbs	29.94 kg

- Environmental Rating: IP54 (std) - IP65 (optional)
- Optional adjustable limit switches
- Available in various mounts:
 - Front and rear flange
 - Clevis
 - Trunnion



MADE in the USA

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Mikrolar Actuators



Mikrolar is now offering its proprietary actuators for sale.

In the production of a quality Stewart Platform, actuator accuracy, axial and radial rigidity are essential.

Why use Mikrolar actuators?

- **Stiffness**
- **Accuracy**
- **Repeatability**

Axial Stiffness:

Most actuators have decent axial stiffness, the ability to resist tension and compression along the length of the rod. (See Fig. 1) Most people equate this with rod diameter and diameter of the screw. But they also need to take into account any backlash from preload on the nut, the drive train and anti-rotation devices. Axial stiffness directly determines accuracy of length, and results in chatter if done poorly.

Radial Stiffness:

Most actuators **do not have** very good radial stiffness, the ability to resist forces from the side. While this might have only a very small affect on the overall length of the actuator (the delta difference is minor) it can cause huge stiffness issues. Radial stiffness directly determines machine stiffness.

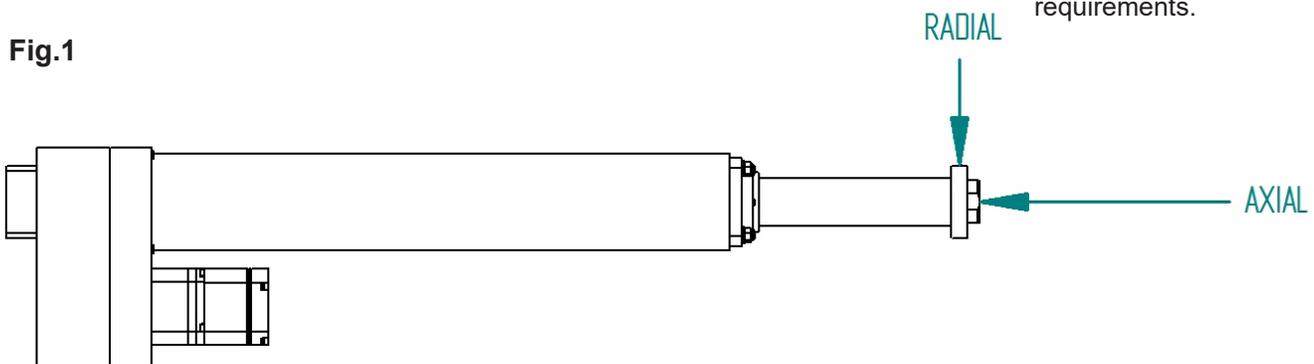
P2100 Hexapod with Mikrolar actuators.



Mikrolar also designs and produces high precision positioning systems for use in a wide variety of applications. Our robots are based on a hexapod system, offering high load capacity and range of movement while maintaining a high degree of precision and repeatability.

Our systems are designed to be customized to fit a variety of applications. Please contact us to discuss how we can create a robotic system to satisfy your requirements.

Fig.1



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