



The CONEX-AG-PR100P is a piezo motor rotary stage integrated with a closed-loop piezo motor controller/driver. Initially targeted for repeatable positioning of polarizing optics, it can also be used as a miniature rotation stage for precision positioning of other optics or lightweight samples.

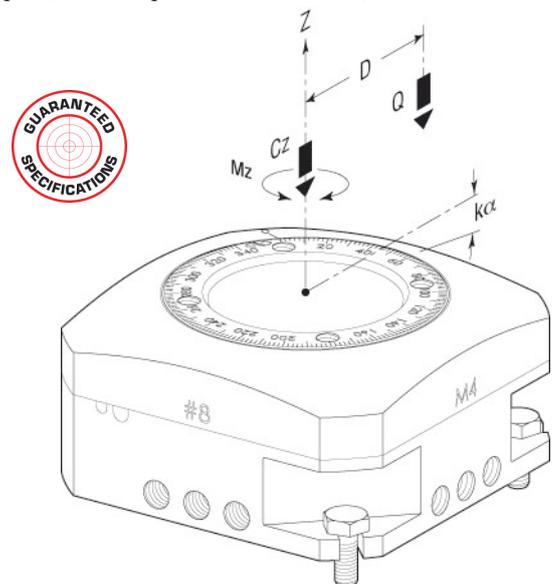
For out-of-the box control, the CONEX-AGP controller is preconfigured and delivered with an Agilis AG-PR100P rotary stage with a built-in direct read encoder. The CONEX-AGP is a very compact and inexpensive single axis motion controller with the same driver as the proven Agilis AG-UC2 2-axis, driver. The controller comes with the familiar CONEX GUI, simple and intuitive to use and conveniently accessible via USB, which also supplies power to the controller.

The CONEX-AGP closed-loop algorithm is a simplified version of the typical DC servo loop algorithm, and combined with the rotary encoder, provides a system uni-directional repeatability of 0.002°. For stability in-position, the user can adjust the deadband parameter that stops dithering when the stage is within a set position tolerance.

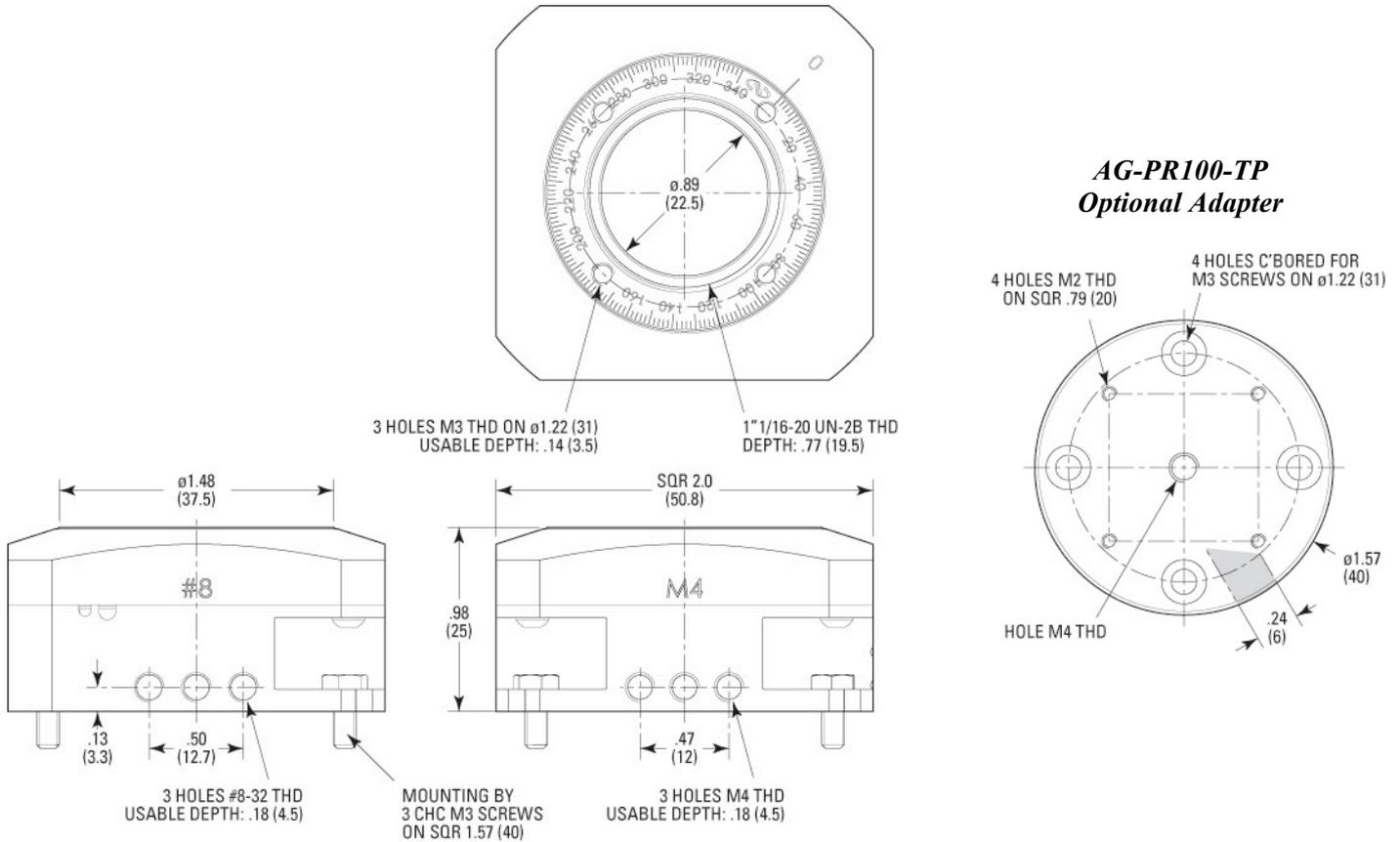
The rotary stage of the CONEX-AG-PR100P is based on the Agilis AG-PR100 rotary stage, but features an innovative miniature direct read encoder. The footprint is maintained while delivering 0.002° uni-directional repeatability expected from direct read encoder technology. The rotary stage is very compact, but is capable of 340° travel, and 0.001° MIM.

Stage Specifications

Travel	340°
MIM	0.001°
Uni-directional repeatability	0.002°
Bi-directional repeatability	0.003°
On-axis accuracy	1.5 mrad
Origin repeatability	0.002°
Maximum speed	1.5 °/s
Wobble	100 μrad
Cz, Normal load capacity	2 N
Kα, Transversal compliance	200 μrad/Nm
Mz, Nominal torque	0.02 Nm
Q, Off-center load	$Q \leq Cz / (1 + D/16)$
D, Cantilever distance (mm)	



Dimensions



EU Declaration of Conformity

Please refer to the "CONEX-AGP - Part 1 - Introduction, Safety & Service" manual supplied on the CD-ROM to have a complete description of the EU Declaration of Conformity.



NOTE

This product complies with the RoHS directive (Restriction of Hazardous Substances).

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