

# CONEX-AG-GON-xP Series



PIEZO MOTOR GONIOMETRIC CRADLES WITH INTEGRATED CLOSED-LOOP CONTROLLER  
CONNECT EASILY - CONTROL SIMPLY



The CONEX-AG-GON-xP Series is a high precision miniature goniometric cradle integrated with a closed-loop piezo motor controller/driver. AG-GON goniometric cradles feature an innovative miniature direct read encoder and provide ultra-high sensitivity with the Agilis™ piezo motor. AG-GON-UP and AG-GON-LP are designed so that orthogonal mounting of the two cradles provides two perpendicular axes of rotation about the same point in space for ultra-compact, tip and tilt.

The CONEX-AG-GON-xP features up to 15° travel range, 0.0006° repeatability and 0.0003° minimum incremental motion while maintaining a small footprint, making it ideal for ultra-sensitive alignments. Combined with the Agilis non-resonant piezo motor, the built-in direct read encoder ensures the tightest control of position and true set and forget, long term stability. With precision position feedback supplied by the highly repeatable encoder, backlash or hysteresis is close to zero.

The integrated CONEX-AGP is a very compact and inexpensive single axis motion controller with the same driver as the proven Agilis piezo motor driver. The controller is NSTRUCT compatible, with a simple and intuitive use and convenient access via USB, which also supplies power to the controller. Download NSTRUCT and the CONEX-AGP applet from [newport.com](http://newport.com).

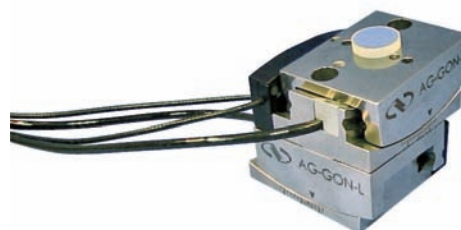
Together with the CONEX-AG-LS25-27P linear stage and the CONEX-AG-PR100P rotation stage, the CONEX-AG-GON-xP series completes the offering of closed-loop piezo motor stage solutions of the CONEX-AGP series family. A vacuum compatible version is also available upon request.

- Highly repeatable angular motion with a direct read encoder
- High sensitivity (MIM) with Agilis™ Piezo Motor
- Orthogonal rotation about the same point when stacked
- Compact footprint and light weight
- Integrated controller and easy setup

## Specifications

	CONEX-AG-GON-UP	CONEX-AG-GON-LP
Travel Range (°)	15	11
Minimum Incremental Motion, MIM (°)	0.00032	0.00025
Uni-directional repeatability (°)	0.00064	0.0005
Origin repeatability <sup>(1)</sup> (°)	0.00064	0.0005
Maximum speed (°/s)	0.45	0.33
Weight [lb (kg)]	0.38 (0.171)	
Cz, Normal load capacity (N)	3.5	

<sup>1)</sup> Origin is located at the negative limit.

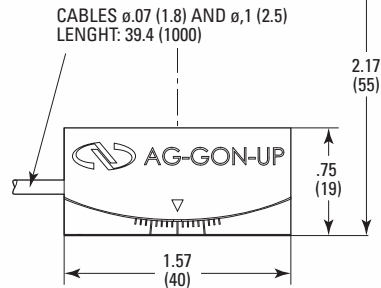
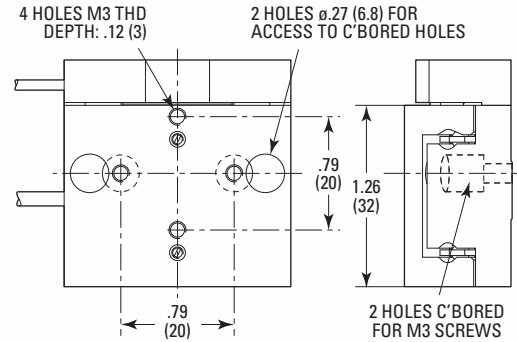
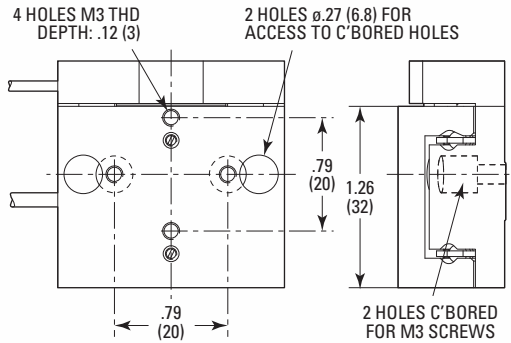


# CONEX-AG-GON-P

## AG-GON-UP

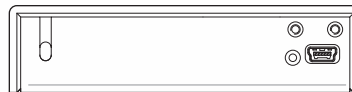
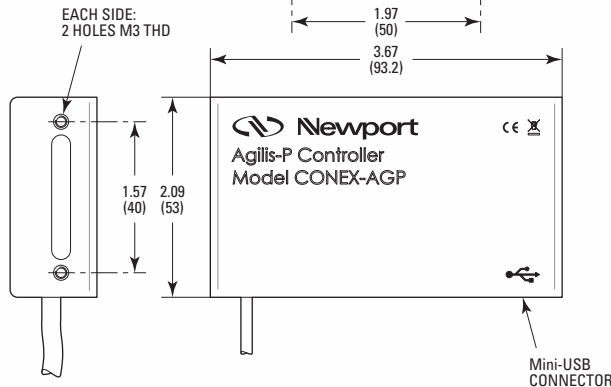
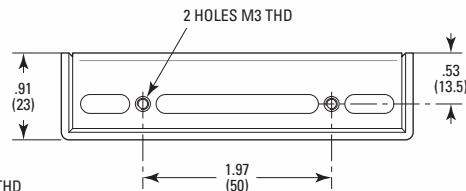
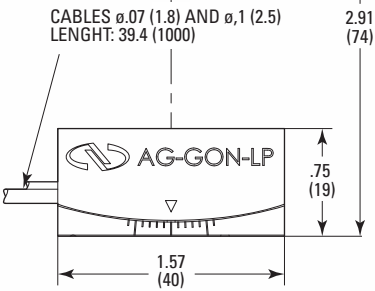
### Dimensions

#### AG-GON-LP



DIMENSIONS IN INCHES (AND MILLIMETERS)

#### CONEX-AGP Controller



Download applet from  
[www.newport.com](http://www.newport.com)



Newport Corporation, Global Headquarters  
1791 Deere Avenue, Irvine, CA 92606, USA

PHONE: 1-800-222-6440 1-949-863-3144 FAX: 1-949-253-1680 EMAIL: [sales@newport.com](mailto:sales@newport.com)  
Complete listings for all global office locations are available online at [www.newport.com/contact](http://www.newport.com/contact)

[www.newport.com](http://www.newport.com)

**PHONE**  
Belgium +32-(0)0800-11 257  
China +86-10-6267-0065  
France +33-(0)1-60-91-68-68  
Japan +81-3-3794-5511  
Taiwan +886 -(0)2-2508-4977

**EMAIL**  
[belgium@newport.com](mailto:belgium@newport.com)  
[china@newport.com](mailto:china@newport.com)  
[france@newport.com](mailto:france@newport.com)  
[spectra-physics@splasers.co.jp](mailto:spectra-physics@splasers.co.jp)  
[sales@newport.com.tw](mailto:sales@newport.com.tw)

**PHONE**  
Irvine, CA, USA +1-800-222-6440  
Netherlands +31-(0)30 6592111  
United Kingdom +44-1235-432-710  
Germany / Austria / Switzerland +49-(0)6151-708-0

**EMAIL**  
[sales@newport.com](mailto:sales@newport.com)  
[netherlands@newport.com](mailto:netherlands@newport.com)  
[uk@newport.com](mailto:uk@newport.com)  
[germany@newport.com](mailto:germany@newport.com)

Newport Corporation, Irvine, California and Franklin, Massachusetts; Evry and Beaune-La-Rolande, France and Wuxi, China have all been certified compliant with ISO 9001 by the British Standards Institution. Santa Clara, California is DNV certified.