

CLA₂6₀₂ – CRYO LINEAR ACTUATOR ₂6₀₂



Features

- Non-magnetic CLA model
- Nanometer step size
- Very large driving force
- 20 mK to 375 K, vacuum compatible
- Extreme stability due to self-locking nature
- No power dissipation when "off"
- Robust design for easy handling
- Full ceramic screw and nut
- Position feedback option -COE

Description / Applications

The CLA2602 is the non-magnetic model in the Cryo Linear Actuator (CLA) series and combines this with a large driving force. A CLA can be considered as a piezo driven setscrew with high force output and very good stability, ideal for set and forget applications in a cryo-vacuum environment. Piezo ceramics in the disc-shaped head generate torque pulses which cause the connected screw to rotate in the stationary nut, yielding linear motion at the ball tip. Both screw and nut are ceramic and run without coatings or lubrication.

Specifications

g ball tip v bient to UHV
v bient to UHV
bient to UHV
1
e axially loaded >1 N for proper operation
6 mm for -COE
ayer, ceramic insulated
rch 250 μm
er, 850 pulses per revolution, equivalent to 294 nm axial displacement













Ordering Information

Available models

CLA2602 Cryo Linear Actuator size 26 Non Magnetic

CLA₂602-COE Cryo Linear Actuator size 26 Non Magnetic-Cryo Optical Encoder

Available Options

-HV Upgrade to High Vacuum compatibility -UHV Upgrade to Ultra High Vacuum compatibility

Accesories

AKM₁ Accessory Kit Mechanical 1 Accessory Kit Electrical 1 AKE₁

Mechanical and electrical information Contact

Download 3D step files and manuals from: For quotations, specials, or engineering services, please contact us at: https://www.jpe-innovations.com/cryo-nano-products/

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Drawings

















