Ultra Low Profile Ultrason... 660 Rotation Stage from PI

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The M-660 (http://www.pi-usa.us/products/precision_positioning_pi-micos/Precision_Rotary_Stages_Goniometers_Mc.php) is one of the lowest profile rotary tables in the market, and is complemented by a high-performance model offering over 88 times the position resolution of the present version.

The velocity of the M-660 stage can increase to 720 degrees/sec. and positions can be resolved down to 4 µrad (8 arcsec). Its self-clamping ceramic drive offers superior stability, with no energy consumption at rest and no heat generation. A directly coupled precision optical encoder enables phase lag-free, backlash-free feedback to the servo controller.

The compact design with reduced inertia and mass offers high-precision bi-directional position and speed control as also high speed motion contouring. The M-660 is based on the new U-164 Piezo Motor and surpasses the stability, acceleration and settling speed of traditional servo motor direct drives and gear-driven mechanisms. The innovative motor drive was also selected by Leica Geosystems AG's in their latest generation of surveying instruments for geodesy, since it can provide significantly higher speeds, shorter positioning times and an extremely high positioning accuracy when moving the measuring optics.

Controller / Software Support

A novel piezo motor controller can leverage from the specific motion characteristics of ultrasonic ceramic motors. A solid software and driver package and USB interfacing for seamless on

Applications, Features & va ges

The applications, features and advar of the M stage ed below:

- The applications of the M-66 emiconducto gy al ins ation
- Very low profile - easy inte : only 15 mm (0
- 4 µrad resolution
- Direct metrology linear encod
- Max. Velocity 720 °/s, unlin ted trave range
- Self-locking ceramic direct rive: ener y savi g o high optics stability
- Piline drive: non-magnetic, v compati le working princi le
- Compact combinations with linear stages available

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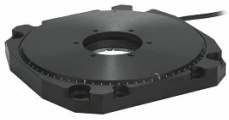

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