TSMG Series Manual Goniometers, ±10° Travel, Stackable Tip/Tilt Pair

Model TSMG Series · waveqvanta.com/products/tsmg-series-manual-goniometers

Matched pair of worm-driven goniometers that stack for tip/tilt adjustment of optics mounted on top.



TSMG10-1W and TSMG10-2W are manual goniometers designed as a matched pair: mounting the 1W beneath the 2W places both rotation axes at the same height, giving tip/tilt adjustment of the optics mounted above. Each unit can also be used on its own. A worm gear and worm drive with hand wheel and side lock provides reliable angle setting over ±10°.

Key features

- Matched pair: TSMG10-1W (100 mm center height) mounts beneath TSMG10-2W (76 mm) so both rotation axes sit at the same height
- ±10° travel on a 65 × 65 mm stage surface, 24 mm thick
- Worm gear and worm drive operated by a hand wheel
- Side locking mechanism holds the set angle and prevents slipping
- Dovetail guide in a black anodized aluminum alloy body
- Compact design; units can be used separately or combined
- Central load capacity 2 kg

Specifications

Travel Range	±10°
Design Center Height	100 mm (TSMG10-1W); 76 mm (TSMG10-2W)
Stage Surface Size	65 × 65 mm
Thickness	24 mm
Guide Mechanism	Dovetail guide
Drive Type	Worm gear and worm, hand wheel
Locking	Side locking mechanism
Body Material and Finish	Black anodized aluminum alloy
Central Load Capacity	2 kg

Model overview

Model	Position When Stacked	Center Height (mm)	Travel (°)	Stage Size (mm)	Thickness (mm)
TSMG10-1W	Lower unit	100	±10	65 × 65	24
TSMG10-2W	Upper unit	76	±10	65 × 65	24

Typical applications

- Tip/tilt adjustment of mirrors and optical mounts
- Two-axis angular alignment with coincident rotation height
- Single-axis angle adjustment of samples or detectors