



Datasheet

1300 SERIES MANUAL TILT & TURN TABLE

STANDARD FEATURES

- Small and lightweight for easy bench mounting and manual operation
- Two degrees of freedom for tilting and rotating test instruments
- Spring loaded detents provide accurate tabletop rotary and tilt axis indexing
- Flat, precision ground tabletop mounting surface
- Anodized aluminum construction for durable corrosion resistance

DESCRIPTION

The 1300 series Manual Tilt & Turn Tables are designed for precision calibration of gyroscopic instruments or any devices requiring a tilt input in one or two axes. The table provides a portable, stable, and precise positioning platform with lasting durability.

The table consists of two axes of motion, one for tilting and the other for rotating the table. It can be tilted in either direction from 0° to 90°. To tilt the table, loosen the knob and rotate the tilt axis by hand to the desired position; then tighten the knob to hold in position.

The tilt axis has detents every 15° for quick positioning, and there are engraved marks at 0.5° increments on the tilt axis.

The tabletop rotates continuously through 360° in a clockwise or counter-clockwise direction. Engraved marks are provided at 45° increments on the tabletop; engraved marks at 1° increments are optional. A spring-loaded steel



ball engages detents in the bottom of the tabletop, locking it into position for quick setup. The detents are located every 45°. Tables with optional engraved marks every 1° have detents every 15°. The tension is adjustable for the positioning detents on both the tabletop and the tilt axis.

A level platform is achieved by adjusting the leveling screws, which are mounted through the base plate. The leveling feet can compensate for as much as 5° of tilt.

The top surface of the table has six tapped holes for attaching the instrument package to be tested. Simply center the instrument package on the tabletop and secure it. Knurled mounting screws (1/4 - 20) may be purchased separately.

OPTIONS

- Knurled mounting screws are available for easy instrument package mounting.
- Various mounting brackets are available.

Specifications for 1300 Series	
Tabletop diameter	8 in. (203 mm)
Weight	18.6 lbs. (8.4 Kg)
Leveling range	± 2.5°
Width	11.5 in. (292 mm)
Depth	10.6 in. (269 mm)
Height	10.5 in. (267 mm)
Load capacity	30 lbs. (13.6 Kg)
Tilt Axis range of motion	± 90°
Tilt Axis engraved increment	0.5°
Tilt Axis detents increment	15°
Azimuth Axis Accuracy (detents & engraving)	±6 arc minutes
Azimuth Axis range of motion	± 360°
Azimuth Axis engraved increment	Standard: 45° -1 Model: 1°
Azimuth Axis detents increment	Standard: 45° -1 Model: 15°
Type of finish	Black anodizing per MIL-A-8625 Type II Class 2

Buyer's Guide		
Model Number	Part Number	Description
Model 1300	227500-1	45° engraved increments on azimuth axis
Model 1300-1	227500-2	1° engraved increments on azimuth axis

Accessories and Options	
Part Number	Description
227427	Set of 3 knurled mounting screws
220964	1 arc-minute sensitive level. (Note: If this method of leveling is selected, 2 levels will be required.)
Various mounting brackets are available. Please refer to the Mounting Bracket & Adapter Plate data sheet.	

For special requirements or custom specifications, contact Ideal Aerosmith. Specifications subject to change without notice. Please call for pricing.

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