ATT185 Series

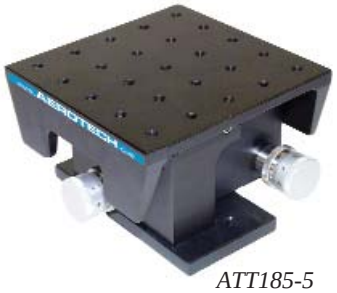
Manual Precision Tilt Tables

Sub-arc-second resolution

Decoupled, orthogonal tilting movement

High thermal stability

ATT185-3



ATT185-5

**U.S. Patent No. 3,727,471*

The ATT185 series precision tilt (pitch-roll) tables provide a means for leveling instruments or tilting components over a ±10° range. Aerotech's patented* sub-arc-second resolution drive allows the user to cover the total angular range quickly while maintaining a resolution of 0.2 arc-second for the ATT185-3, and 0.1 arc-second for the ATT185-5. With this unique drive, the tables exhibit virtually no creep or backlash and have excellent repeatability. These tables have a gimbal support with decoupled and orthogonal axial motion.

Both tilt table bases have clearance holes for M6 screws on 25 mm centers and are adaptable to Aerotech linear or rotary translation stages. The tables are constructed of aluminum with a black anodized finish.

	ATT185-3	ATT185-5
Range	±10°	
Thimble Graduation	5.0 arc-second	2.5 arc-second
Resolution(1)	0.2 arc-second	0.1 arc-second
Max Load (Horizontal)(2)	4.54 kg (10 lb)	
Material	Aluminum	
Finish	Black Anodized	
Weight	0.5 kg (1.1 lb)	1.41 kg (3.1 lb)

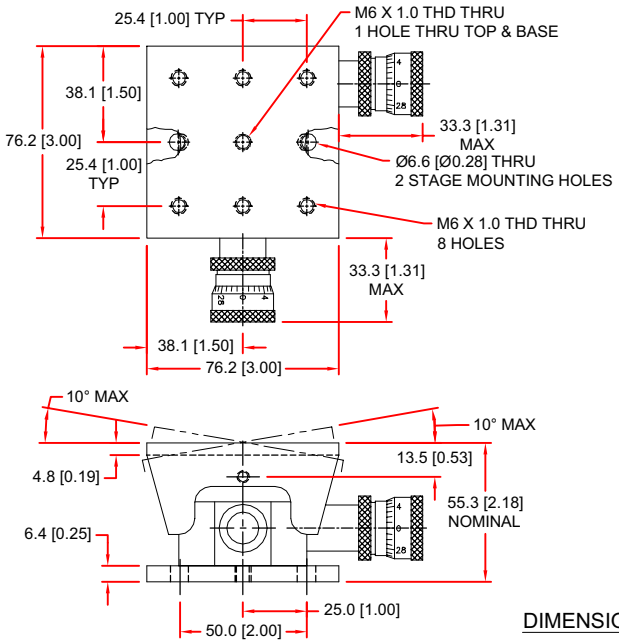
Notes:
1. Per 0.5° movement of the fine adjustment
2. Load should be centered or counterbalanced to provide accurate tilt

ATT Series Tip and Tilt

ATT185-3	English gimbal tilt table with ±10 degrees of travel in roll and pitch, and a 2 in by 2 in mounting pattern on a 3 in by 3 in mounting surface
ATT185-3M	Metric gimbal tilt table with ±10 degrees of travel in roll and pitch and a 50 mm by 50 mm mounting pattern on a 3 in by 3 in mounting surface
ATT185-5	English gimbal tilt table with ±10 degrees of travel in roll and pitch, and a 4 in by 4 in mounting pattern on a 5 in by 5 in mounting surface
ATT185-5M	Metric gimbal tilt table with ±10 degrees of travel in roll and pitch and a 100 mm by 100 mm mounting pattern on a 5 in by 5 in mounting surface

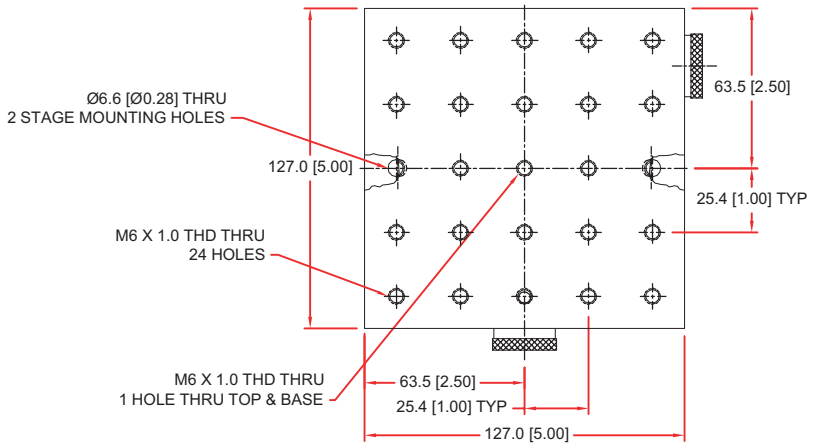
ATT185 Series DIMENSIONS

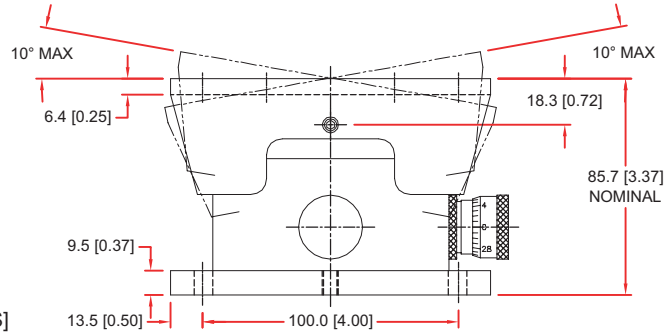
ATT185-3



DIMENSIONS - MILLIMETERS [INCHES]

ATT185-5





DIMENSIONS - MILLIMETERS [INCHES]

WORLD HEADQUARTERS: Aerotech, Inc., 101 Zeta Drive, Pittsburgh, PA 15238, USA +1-412-963-7470 Fax: +1-412-963-7459
Aerotech Ltd., Jupiter House, Calleva Park, Aldermaston, Berkshire RG7 8NN, UK +44-118-9409400 Fax: +44-118-9409401
Aerotech GmbH, Südwestpark 90, 90449 Nürnberg, Germany +49-911-9679370 Fax: +49-911-96793720