

Model MW12K - Single Axis Moment Weight Scale



Moment measurement specifications

Maximum radial moment that can be measured *	12,000 oz-inch
Maximum additional moment of tooling	8,000 oz-inch
Maximum combined weight of blade and tooling	60 lb.
Range of indication	2000 oz-inch
Readout resolution	0.01 oz-inch
Readout sensitivity	0.02 oz-inch
Moment linearity (0.0025% of measurement range)	0.05 oz-inch
Relative radial moment measuring error **	0.07 oz-inch
Absolute radial moment measuring error (0-2000 oz-inch) ***	0.1 oz-inch
Absolute radial moment measuring error (2000-12,000 oz-inch) ***	0.15 oz-inch

Mounting Plate

Mounting plate radius ****	5.000 inch
Mounting plate dimensions *****	A2499019

* Tooling is first counterbalanced to zero moment, ** Using master blade to set reference. Tooling error is not included.

*** These are guaranteed limits (not including tooling error). Typical error is less than 1/2 of this value.

**** Distance from fulcrum to vertical adapter mounting surface, ***** Alternate mounting plates are available

The MW12K scale measures the radial moment of turbine blades. This scale uses force restoration technology with crossed-web flexure pivots and has negligible error due to blade CG height. The system includes a computer, which displays the measured moment weight. If special software features are required for interfacing with a database program (such as PWBAL), please contact us for a specific quotation

Optional Model SE90023B Calibration System - This calibration system bolts directly to the interface of the moment weighing system. It can be used to establish the exact radius of the mounting plate and also can be used to calibrate the moment readout and the mass scale. Accuracy of this calibration system is 5 times better than the accuracy specifications for the system. Mass and distance are traceable to NIST.