

'Vertex...Achieving new heights of precision'

'Dual probe holder' incorporates a 360° circular clamping force with a unique probe 'timing' system, enabling the entire 850mm range in the same measuring cycle.

New Orbital Keypad incorporates an LCD alpha/numeric display surrounded by 'soft keys', and 'Bluetooth' connection for wireless printing.



Bi-directional probing switch, air bearing control button, independent carriage and/or base air-control locking valves for scribing and straightness checks.

Quick Keys, 'safety-first' precision air bearing, collision protection and two precision chrome-carbon reference spheres, for measuring cones, angles and straight edges.



Patented design:

The VERTEX vertical measuring system is a new concept in height measurement, its unique patented design is packed with innovative features, achieving greater levels of precision, repeatability, usability and low maintenance.

Non-contact drive:

The VERTEX is driven completely by air bearings. This non-contact drive mechanism means better repeatability and less wear and tear. A frictionless magnetic drive system, and a positive pneumatic carriage lock all add to the list of features.

Better accuracy:

The VERTEX has a unique triangular spindle; its '3-point' location system has great benefits for accuracy and stability. Perpendicularity is second to none, without the use of 'error mapping' typical of conventional height gauges.

Low maintenance:

The unique 'spherical clamping system' and spherical 'expansion bearing' result in a stress free, floating column, adjusted from the top for easy maintenance.

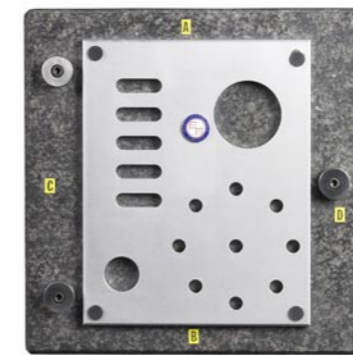
Comprehensive functionality:

Pre-programmed measurement routines including:

- Height, depth, gap & distance.
- Diameters, internal/external.
- Top dead centre, internal/external.
- Bottom dead centre, internal/external.
- Squareness calculation.
- 2D axis alignment, PCD function, rectangular & polar coordinates.
- Angular rotation 2D alignment compensation.
- Runout routine.
- Eight fully floating datums.




Aluminum Flight Case



Granite Training Block

Probe
Carousel



Master Setting Piece

**ELEY METROLOGY
VERTEX VERTICAL MEASURING SYSTEM - TECHNICAL DATA**

Measuring Range	800 mm (with dual probe holder)
Dual Probe Holder	350 mm
Displacement Method	Motorised/Manual
Resolution	0.0005 mm / 0.00002 "
Accuracy (in microns)*	1.8 + L/400 (L in mm)
Measuring System	Incremental Scale
Squareness & Straightness:	
Max error front	3.5 μ m
Max error side	5.0 μ m
Measuring Force	Constant under motor control/adjustable 0.7 N
Orbital Display	LCD alpha/numeric, multilingual
Program Storage	Integral/Remote
Air Pressure	In built pump (variable)
Power Supply	Battery powered/mains adaptor 110 or 240V
Battery Life	8 hour normal use
Weight	30 Kgs
Data Output	Wireless (Bluetooth®)
Carriage Lock	Yes
Interface Connections	2 x RS232C
Counter Balance Lock	Yes (for transit)

* Accuracy measured at 20°C with probe tip maximum 55mm from holder
NB: All specifications achieved without error mapping

All information and illustrations are given for guidance only. Eley Metrology does not accept liability for any error or omission herein.

STANDARD EQUIPMENT:

- BATTERY PACK
- CHARGER/MAINS LEAD
- 10MM PROBE
- SETTING PIECE

OPTIONAL EXTRAS:

- ALUMINIUM 'FLIGHT' CASE
- MASTER SQUARE
- PROBE KIT (CAROUSEL)
- DUST COVER
- DOCKING STATION

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