

SPECIFICATIONS

Environmental Characteristics

Operating temperature range	-18 to 70 °C
Survival temperature range	-40 to 70 °C
Constant acceleration overload	50 g
Shock survival	1500g, 0.5msec, ½ sine
Vibration endurance	35g rms, 20 Hz to 2000 Hz sinusoidal
Environmental sealing	IP65

Specifications by Range @ 20°C

Range		±1°	±3°	±14.5°	±30°	±90°
Non-Linearity	% FRO (max)	0.05	0.05	0.02	0.02	0.05
Non-Repeatability	% FRO (max)	0.04	0.02	0.004	0.002	0.001
Resolution	arc seconds	0.1	0.2	1.0	2.0	4.0
Sensitive Axis-to-Case Misalignment	deg (max)	±0.1	±0.15	±0.25	±0.5	±1.0
Cross-axis sensitivity	% FRO (max)	0.1	0.1	0.1	0.1	0.1
Thermal Sensitivity	% Reading/°C (max)	0.04	0.03	0.01	0.006	0.006

Measurement and Output Parameter

Geometrical form	⊕	Flatness, Straightness, Angular Pitch, Angular Roll and Parallelism
Unit under test size	⊕	Unlimited size of surface and length.
	⊕	Flatness – Union Jack, Closed Rectangular Transverse, Closed Rectangular, Open Rectangular
Output parameter	⊕	Straightness – Linear Measurement
	⊕	Angular Roll and Pitch – Linear Measurement
	⊕	Parallelism – Linear Measurement
	⊕	Absolute measurement.
Output analysis	⊕	Least square analysis
	⊕	Minimum zone method
Standards	⊕	BS, ISO, JIS
	⊕	ISO 17025 Calibration Certificate – Customisable company logo, details and accreditation symbol
Output reporting	⊕	Detail result data and graphical output
	⊕	Measurement uncertainty calculation budget according to ISO-GUM standard.
	⊕	Meshing with colour scale
Graphical style	⊕	3D line grid
	⊕	2D plan view
	⊕	1D linear graph

Miscellaneous

Power supply	⊕	100, 110, 120, 200, 220, 240 V (50/60 Hz)
Input power	⊕	DC 12 V, 1 Amp Max
	⊕	Level unit - 95 x 45 x 40 mm
Dimensions	⊕	Controller unit – 250 x 250 x 100 mm
	⊕	Adjustable base – 240 x 25 x 15 mm
	⊕	Carrying case – 460 x 320 x 150 mm
Total mass includes casing	⊕	5 kg
Output/Input to PC	⊕	USB / RS232

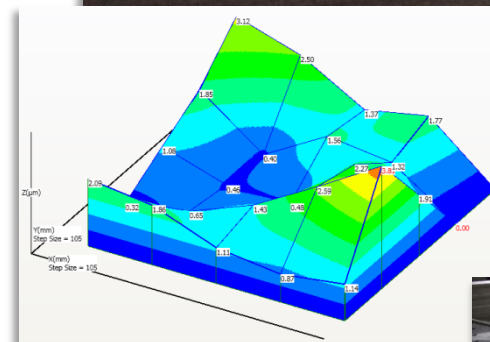
Subjects to modification

AUTHORISED DISTRIBUTOR / AGENT

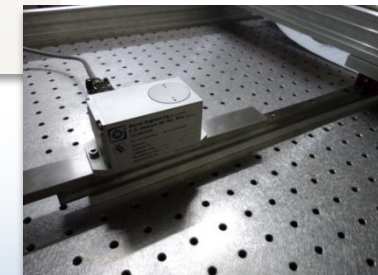
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MICRO-VEL ME-900

SURFACE FLATNESS, STRAIGHTNESS, ANGULAR
 PITCH, ANGULAR ROLL AND PARALLELISM
 MEASUREMENT SYSTEM



LARGE MEASURING RANGES
 HIGH MEASURING ACCURACY
 FAST PROFILE ANALYSIS
 PROFESSIONAL DATA OUTPUT



MICRO-VEL ME-900

DEVELOPED BY CALIBRATION SPECIALISTS FOR CALIBRATION SPECIALISTS

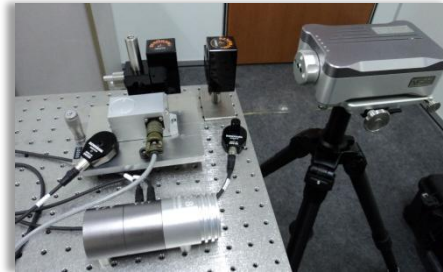
PRECISION AND RANGE

- ❖ Fast, accurate and simple solutions to flatness, straightness, parallelism and angular roll and pitch measurements.
- ❖ The resolution of measurement can up to micro-radian or 0.1 arc-second.
- ❖ The accuracy is typically at 0.05% of display reading error.
- ❖ Ranges of $\pm 1^\circ$, $\pm 3^\circ$, $\pm 14.5^\circ$, $\pm 30^\circ$ and $\pm 90^\circ$.

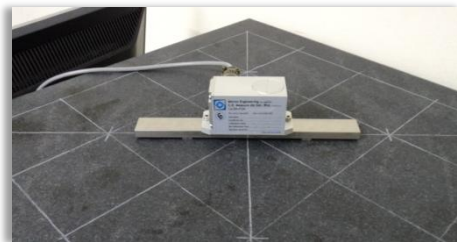


micro-vel ME 900 system

ACCURACY GUARANTEED



micro-vel calibrated by laser interferometry. Traceability to UKAS-ISO 17025 standard.



Surface plate calibration



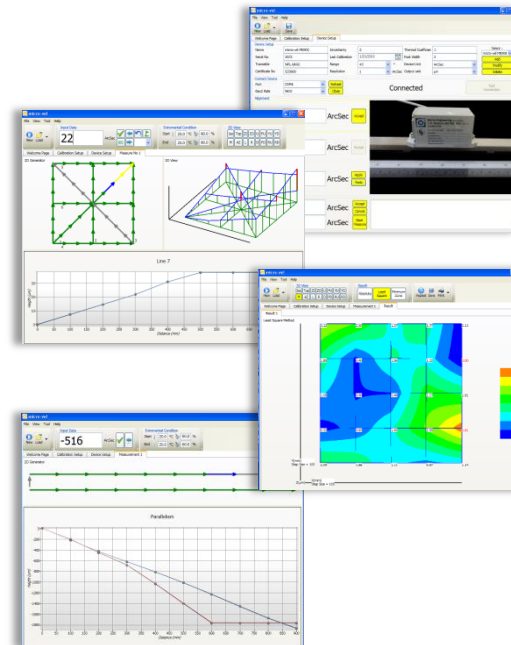
Granite straightedge calibration



CNC machine levelling / calibration

POWERFUL SOFTWARE

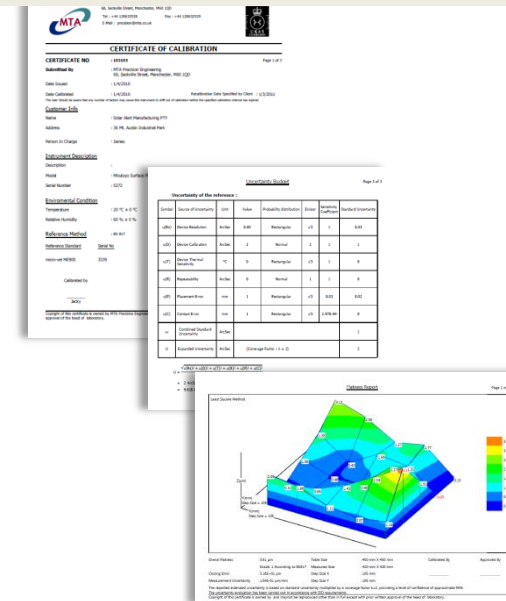
- ❖ Equipped with modern PC hardware, supports to Windows XP, Vista and Windows 7 operating system and the comprehensive micro-vel software.
- ❖ Simple handling, even for beginners; software operation by straightforward user friendly interface; from the measurement to the record output and data storage.



Interactive software applications and functions

CALIBRATION FRIENDLY

- ❖ The measurement output from simple angular reading to calibration report with certification, data listing, 3D grid lines, 3D surface mesh and measurement uncertainty computation.



Calibration certificate, measurement uncertainty calculation and 3D/2D graphical outputs



Small carrying case with micro-vel ~ 5 kg

PRACTICAL INVESTMENT

- ❖ At an affordable cost, the micro-vel investment is worth as compared to other brand or other type of instruments.

	micro-vel	planeator	Other brand
Price	affordable ✓✓	affordable	expensive
Time to calibrate 1 m x 1 m surface plate	0.5 hour with reporting ✓✓✓	2.5 hour without reporting	1.0 hour with reporting
Software functions / outputs	Calibration Certificate, Graphical 3D Mesh + Grid, Measurement Uncertainty ✓✓✓	None	3D Grid and standard report

Comparison between instruments