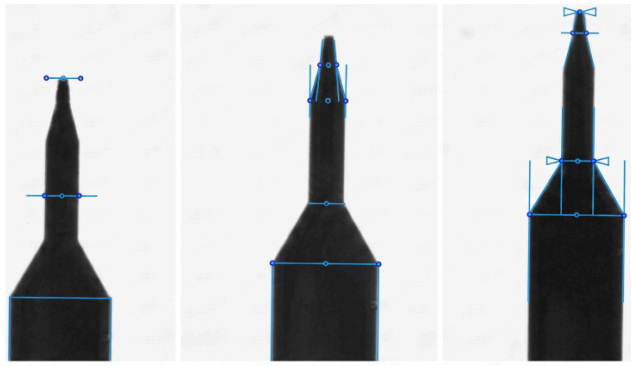
metrik

Precision Measurement System for Cylindrical Components

Professional Metrology. Industrial Ruggedness. Disruptive Value.

3D metrology for

cutting tools
cylindrical parts
precision components



Designed for quality control, R&D and metrology aboratories requiring fast, quantitative 3D dimensional analysis

Automated Accuracy:
Fully automated dimensional and geometric measurement of cylindrical parts, with programmable inspection routines.

High Precision:
Achieves micron-level precision across all critical dimensions—diameter, length, thread geometry, and surface profile.

Reliable Performance:
Engineered for industrial use, with robust components rated for continuous operation and maintenance-free accuracy.

Versatile & Scalable:
Supports screws, bolts, shafts, cutting tools, and custom cylindrical components—ideal for quality control in aerospace, medical, and manufacturing industries.

Effortless and Consistent Usability:
Intuitive, single-click operations for a seamless experience. Workflow intelligence enables measurement recipe library for sustainable quality control.

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PSARON

METRIK PRODUCT SPECIFICATIONS

Model	M1
Max. Sample Diameter (mm)	25
Max. Sample Length (mm)	150
Accuracy (mm/deg)	±0.005 / ±0.1
Repeatability (mm/deg)	±0.001 / ±0.05
Resolution (mm)	0.005 (scan)
Sample Chuck	High-precision motorized rotation stage for full 360° profiling with integrated motorized magnetic chuck.
Motorized Vision Unit	Axial measurements of parts up to 150 mm, with programmable step size for high-resolution scanning.
Vision System	High-resolution industrial camera integrated with telecentric optics.
Illumination	Precision telecentric backlight illumination.
Measured Sample Types	Screws, bolts, threaded rods, Cutting tools (drills, end mills, taps, reamers), Cylindrical shafts, pins, rods, other axis-symmetric and custom-shaped cylindrical components.
Measurement Workflows	Supports automated and user-defined measurement sequences for different cylindrical geometries with variable length, diameter, thread type, and flank angles.
Internation Standard Compliance	Measurement algorithms comply with international standards.
Calibration	Automatic system calibration using certified reference rods.
AI Metrics	AI-Powered Scoring System: Evaluate production quality with intelligent grading algorithms; Smart Statistical Analysis: Leverage advanced filtering and multivariate analysis for insights; Comprehensive Data Visualization: Generate detailed run charts, capability indices, control charts (X, R, C, U, NP, P, I, MR), and Pareto analysis; In-Depth Insights: Visualize confidence intervals, explore correlation analysis, and uncover relationships between parameters.
Reporting	Excel format, customizable with customer logo. Custom reports based on user-defined standards.
Device Database	Systematic archiving of measurements, reporting saved measurement, raw data storing.
Software Language	English
Electronic Controller	USB 2.0 / USB 3.0 interface Power Supply: 19 V / 5 A
Operating Temperature (°C)	5-45
Dimension (WxLxH in mm)	770 x 365 x 545
Weight (kg)	35

† PSARON reserves the right to modify technical specifications without prior notice.

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