



OPTICAL MEASURING MACHINES



Optical measurement for maximum efficiency. Quality without compromise.

VICIVISION systems deliver fast, precise dimensional inspection of turned and ground parts by combining the functions of profile projectors, micrometers, and roundness gauges in one machine. Automatic measurement provides accurate results in seconds on the shop floor, with built-in data collection ensuring accuracy, traceability, and time savings with minimal operator input. This enables reliable, efficient inspection that raises productivity and maintains the highest quality standards.

VICI systems can inspect a wide range of components, including fittings, electrospindles, bar-stock parts, multi-spindle parts, precision and rolled screws, rivets, bolts, oil valves, taps, pistons, cylinders, lathe parts, dental implants, drive shafts, medical bone screws, camshafts, watch parts, crankshafts, and hydraulic or fluid-power components.



PRIMA SERIES

From the experience of thousands of customers comes the range with the best price to performance ratio. From 60 to 140 mm in diameter and 300 to 900 mm in length.



OVER 15 YEARS ON THE SHOP FLOOR

Experience from thousands of VICIVISION users, in a machine optimized for turning process control.

MAKING PRODUCTION MORE COST EFFECTIVE

An optical measuring machine that increases output, cuts rejects and downtime, and delivers fast ROI - combining 90% of daily tools in one solution.

DESIGNED FOR DAILY USE

Clear part imaging and a large work area offer full visibility. Retractable sensors create extra space for easy loading/unloading. Ergonomic clamping lever suits both left- and right-handed users without blocking the view.



Model	Measuring field	Max. loadable sizes	Accuracy ⁽¹⁾ σ - L	Repeatability ⁽²⁾ σ - L	Size LxDxH mm
306 PRIMA	300x60 mm	300x120 mm - 10Kg	1,5+D[(mm)/200]] μm 3,5+L[(mm)/200]] μm	0.4 μm / 2 μm	595x780x950 mm
309 PRIMA	300x90 mm	300x120 mm - 30Kg			595x780x950 mm
314 PRIMA	300x140 mm	300x240 mm - 30Kg			920x1030x1800 mm
606 PRIMA	600x60 mm	625x120 mm - 30Kg			595x780x1315 mm
609 PRIMA	600x90 mm	625x120 mm - 30Kg			595x780x1315 mm
614 PRIMA	600x140 mm	625x240 mm - 30Kg			920x1030x2000 mm
909 PRIMA	900x90 mm	925x120 mm - 30Kg			595x780x2000 mm
914 PRIMA	900x90 mm	925x240 mm - 30Kg			920x1030x2000 mm

(1): Maximum permissible error according to EN ISO 10360-7 specifically applied to shafts optical measuring machines, relating to artifacts certified by EN ISO 17025 accredited laboratory (plus, uncertainty of calibration masters U(d): 0.5 μm and U(l): 1 μm), steel made, ground surfaces and standard shape. Environment condition 20±0.5°C, max gradient 0.5K/h. Uncertainty estimated considering a coverage range K=2 corresponding to a confidence level of about 95%. (2): Repeatability calculated over 10 repetitions on ground part surfaces.

TECHNO SERIES

Maximum performance with a broad range of machines. From 40 to 180 mm in diameter, and 300 to 2000 mm in length.



ADAPTABILITY AND FLEXIBILITY ON THE SHOP FLOOR

Choose from multiple models to find the measuring range that fits your production needs perfectly. These systems support quick part changeover, making them ideal even for smaller batches and enabling fast transitions between lots.

EFFICIENCY AND INDEPENDENCE IN PRODUCTION

Each part produced by the CNC lathe or grinding center can be measured by operators in seconds. This enables operator independence and early tool offset adjustments, helping reduce rejects and maintain consistent quality.

ONE SYSTEM, MULTIPLE APPLICATIONS

A single measuring machine can serve multiple CNC lathes and operators, maximizing efficiency across workstations. Ultra-high-resolution imaging ensures precise control, capturing even the smallest details. Perfect for single operator use, or in a full automation cell.

Model	Measuring field	Max. loadable sizes	Accuracy ⁽¹⁾ σ - L	Repeatability ⁽²⁾ σ - L	Size LxDxH mm
M304	300x40 mm	300x120 mm - 10Kg	1+D[(mm)/200] μm 3+L[(mm)/200] μm	0.3 μm / 1.2 μm	595x780x950 mm
M306	300x60 mm	300x120 mm - 10Kg			595x780x950 mm
M309	300x90 mm	300x120 mm - 30Kg			595x780x950 mm
M314	300x140 mm	300x240 mm - 30Kg			920x1030x1800 mm
M318	300x180 mm	300x240 mm - 30Kg			920x1030x1800 mm
M604	600x40 mm	625x120 mm - 30Kg	1+D[(mm)/200] μm 3+L[(mm)/200] μm	0.3 μm / 1.2 μm	595x780x1315 mm
M606	600x60 mm	625x120 mm - 30Kg			595x780x1315 mm
M609	600x90 mm	625x120 mm - 30Kg			595x780x1315 mm
M614	600x140 mm	625x240 mm - 30Kg			920x1030x2000 mm
M618	600x180 mm	625x240 mm - 30Kg			920x1030x2000 mm
M906	900x60 mm	925x120 mm - 30Kg	1+D[(mm)/200] μm 3+L[(mm)/200] μm	0.3 μm / 1.2 μm	595x780x2000 mm
M909	900x90 mm	925x120 mm - 30Kg			595x780x2000 mm
M914	900x140 mm	925x240 mm - 60Kg			920x1030x2000 mm
M918	900x180 mm	925x240 mm - 60Kg			920x1030x2000 mm
M1209	1250x90 mm	1300x120 mm - 30Kg	1.5+D[(mm)/100] μm 4+L[(mm)/100] μm	0.4 μm / 3 μm	595x780x2000 mm
M1214	1250x140 mm	1300x240 mm - 60Kg			920x1030x2205 mm
M1218	1250x180 mm	1300x240 mm - 60Kg			920x1030x2205 mm
M2018	2000x180 mm	2000x240 mm - 60Kg			920x1030x2770 mm

(1): Maximum permissible error according to EN ISO 10360-7 specifically applied to shafts optical measuring machines, relating to artifacts certified by EN ISO 17025 accredited laboratory (plus, uncertainty of calibration masters U(d): 0.5 μm and U(l): 1 μm), steel made, ground surfaces and standard shape. Environment condition 20±0.5°C, max gradient 0.5K/h. Uncertainty estimated considering a coverage range K=2 corresponding to a confidence level of about 95%.

(2): Repeatability calculated over 10 repetitions on ground part surfaces.

X SERIES

The best way to measure the smallest details.

A specific solution for biomedical components, watchmaking and micromechanics.



IDEAL FOR MICRO-COMPONENTS

The X series is specially designed to measure dental implants, biomedical components, watch parts and micromechanical parts. The high resolution allows detection of the smallest details.

PROVEN BY THOSE WHO MANUFACTURE MINUTE PARTS

The open design facilitates direct access and handling of even the smallest and most complex cylindrical components. As there are no openings or undercuts in the machine, there is no risk of small parts falling.



Model	Measuring field	Max. loadable sizes	Accuracy ⁽¹⁾ σ - L	Repeatability ⁽²⁾ σ - L	Size LxDxH mm
MTL X5	100x16 mm	270x90 mm - 3Kg	1,5+D[(mm)/100] μm 4+L[(mm)/100] μm	0.4 μm / 3 μm	560x660x860 mm
MTL X10	100x8 mm	270x90 mm - 3Kg	1+D[(mm)/200] μm 3+L[(mm)/200] μm	0.3 μm / 1.2 μm	595x780x950 mm

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(2): Repeatability calculated over 10 repetitions on ground part surfaces.

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