



**WILLRICH PRECISION
I N S T R U M E N T**
THINK MEASUREMENT... THINK WILLRICH

Ph 866-945-5742 email:sales@willrich.com

VALVE SEAT INSPECTION GAUGES



MARPOSS



Marposs introduces the M9R and M9RS next generation handheld gauges for valve seat inspection on cylinder heads. These gauges are designed to **enhance the inspection phase** of the manufacturing process and ensure the highest quality control.

The M9R and M9RS gauges are suitable for quality control on several types of cylinder heads across many market sectors including gas and diesel engines for two wheelers, light and heavy weight vehicles and others.



ROBUST AND RELIABLE

HIGH PERFORMANCE

EASY TO USE, SAFE AND RAPID

STATISTICS AND GRAPHICAL RESULTS

CUSTOM INSPECTION CYCLES AND MEASUREMENT

BENEFITS

M9R

Robust and cost-effective solution for Run-out and Roundness. **Rapidity and ease of use** make this gauge the perfect tool for any manufacturing dimension. The gauge performs a dynamic inspection, processing the signals from two different probes on the valve seat and valve guide in combination with mechanical references. The articulated joint and the pre-centering guide ensure the correct working position, providing **excellent protection** from external disturbances and the highest **repeatability** over time.

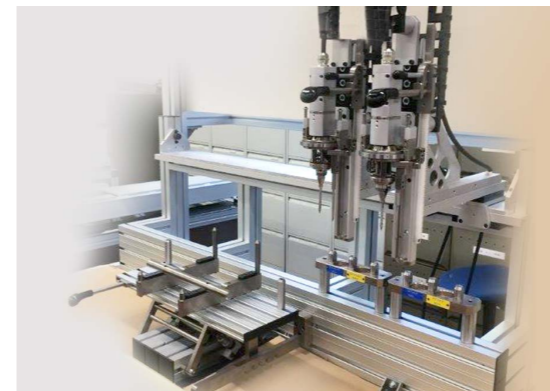
M9RS

Unique features include monitoring of a **wide set of features** in just one measuring cycle. The integration of the Marposs patented scanning system offers unparalleled power enclosed in a single instrument. The gauge performs two dynamic inspections by rotating and scanning the entire valve seat to provide the Run-out, Roundness and a **detailed analysis** all along the valve seat profile. Upon request, M9RS can also run a **custom cycle** to expand the number of features to be controlled.

	M9R	M9RS
CYCLE STEPS	ROTATION	ROTATION & SCANNING
STANDARD MEASURES	T.I.R / CONCENTRICITY, ROUNDNESS	T.I.R, CONCENTRICITY, ROUNDNESS, SEAT ANGLE, WIDTH, DECK AND THROAT ANGLE, STRAIGHTNESS
TYP. CYCLE TIME	< 6s	<12s
ADDITIONAL FEATURES	GUIDED SEQUENCE, EXT. START CYCLE, POLAR GRAPHS, INSPECTION REPORT, PART SUPPORT, PLUG FIXTURES, DIFFERENT STEP CYCLES, AND MORE...	

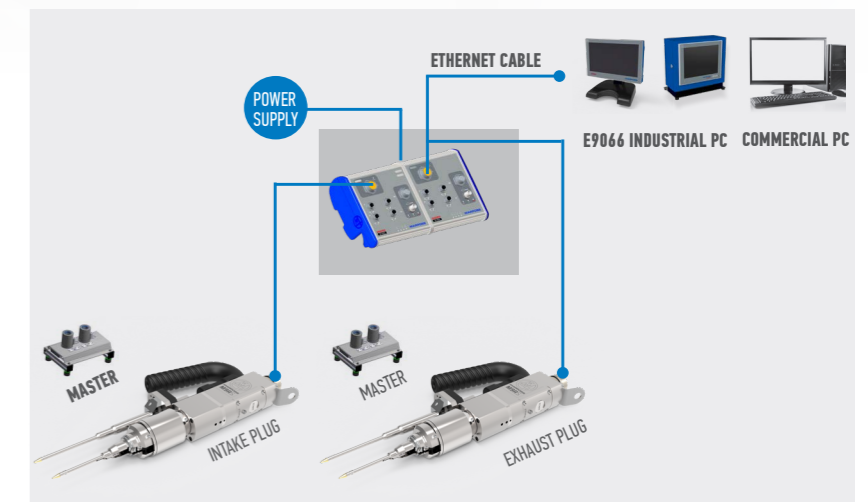
EASY TO USE

Thanks to a rich set of details that improve and simplify the user experience on measuring cycle, anyone can easily operate the M9R and M9RS. The plugs work with the Marposs Guided Sequence Flow Control, a software platform designed to drive the user all along the inspection plan, guaranteeing **fast and precise operations** as well as a **clear results analysis**.



SCOPE OF SUPPLY

The standard scope of supply is composed by two plugs (M9R or M9RS) for intake/exhaust line, the relevant masters, MC8 driver units, supports and software. An industrial or commercial computer with Quick SPC installed is needed to run and manage the application. The gauges are supplied for free hand use or moved by using a mechanical fixture to facilitate the inspection operations.





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MARPOSS

For a full list of address locations, please consult the Marposs official website

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Marposs has an integrated system to manage the Company quality, the environment and safety, attested by ISO 9001, ISO 14001 and OHSAS 18001 certifications. Marposs has further been qualified EAQF 94 and has obtained the Q1-Award.