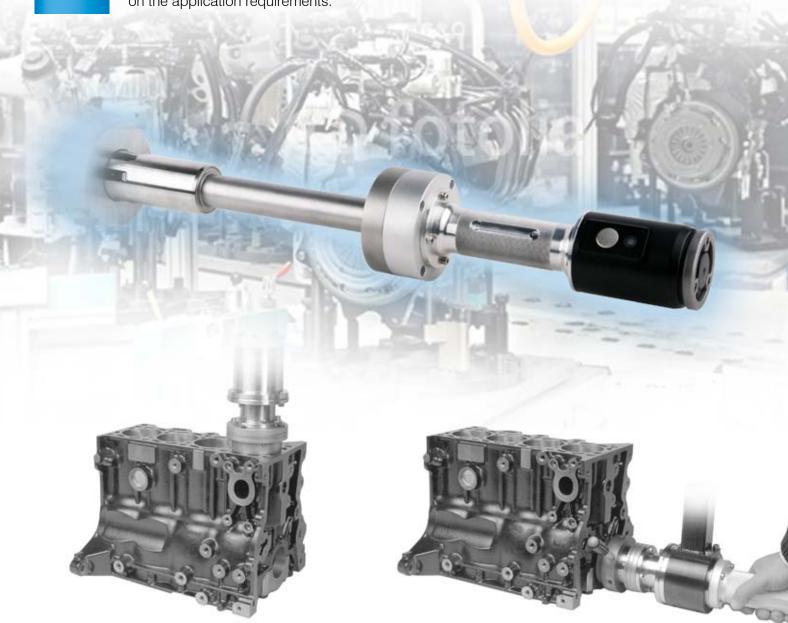# M5

The M5 plug is an extremely precise multisection electronic gauge; it provides the most reliable and rugged industrial solution for manually inspecting the seats of cam shaft, crankshaft, cylinder bore, counter shaft bore and any other similar part.

The configurations of this product are multiple to meet even complex application requirements, guaranteeing excellent performance and reliability over time.

The gauge enables to check diameters using two or four contacts for each measuring section. If it is used with four contacts per section, it is also able to provide the seats concentricity measure. It is possible to choose the contacts material among widia, widia with DLC, or diamond, depending on the application requirements.

Easy handling, which is guaranteed also for large plugs, is obtained both by using a balancing arm for the horizontal measurements (crankshaft and cam shaft) and thanks to a dedicated support for the vertical measurements (cylinder bore).

The M5 plug is available in two versions:
- with cable, connected to Marposs interfacing and acquisition devices
- wireless, connected thanks to the Marposs "wave" technology with rechargeable lithium battery, contactless with inductive system

The M5 plug can be used with the E9066T/E9066E industrial PCs, with Gagepod, or with the Merlin system.

MAIN PRODUCT CONFIGURATION

TYPE OF PLUG	CYLINDER BORE		CAM SHAFT CRANKSHAFT	
Max. number of measuring sections	3		7	
Max. number of measuring points	7 (wireless)	12	7 (wireless)	28
OPTIONS				
Axial step	No		Yes	
Radial step	No		Yes	
DLC/diamond contacts	Yes		Yes	

TECHNICAL SPECIFICATIONS

Repeatability error * (4σ)	on master	1 μm	L/D** < 15

* test on 50 samples for diameter measurements with max. temperature variat. = 2°C/h

** L= plug length
D= plug diameter

WIRELESS SPECIFICATIONS

Transmission technology	Bluetooth® wireless technology
Transmission distance	10 m
Battery life	Up to 36 h in continuous operation
Charging technology	Contactless charging system with inductive technology
Charging time	5-6 hours (80% in 2 hours)
Max. number of manageable signals	7 transducers