

IN-PROCESS GAGE HEAD

In keeping with our tradition of innovation, Marposs is pleased to announce the introduction of the Micromar 8 in its wide range in process gages solutions.

Thanks to its innovative slip-clutch mechanism and stainless steel construction, Micromar 8 is the best choice for those application that need high performances under the most demanding conditions and machine downtime to a minimum.

When fitted with the appropriate fingers, the gage can be used to measure either inner or outer workpiece diameters.

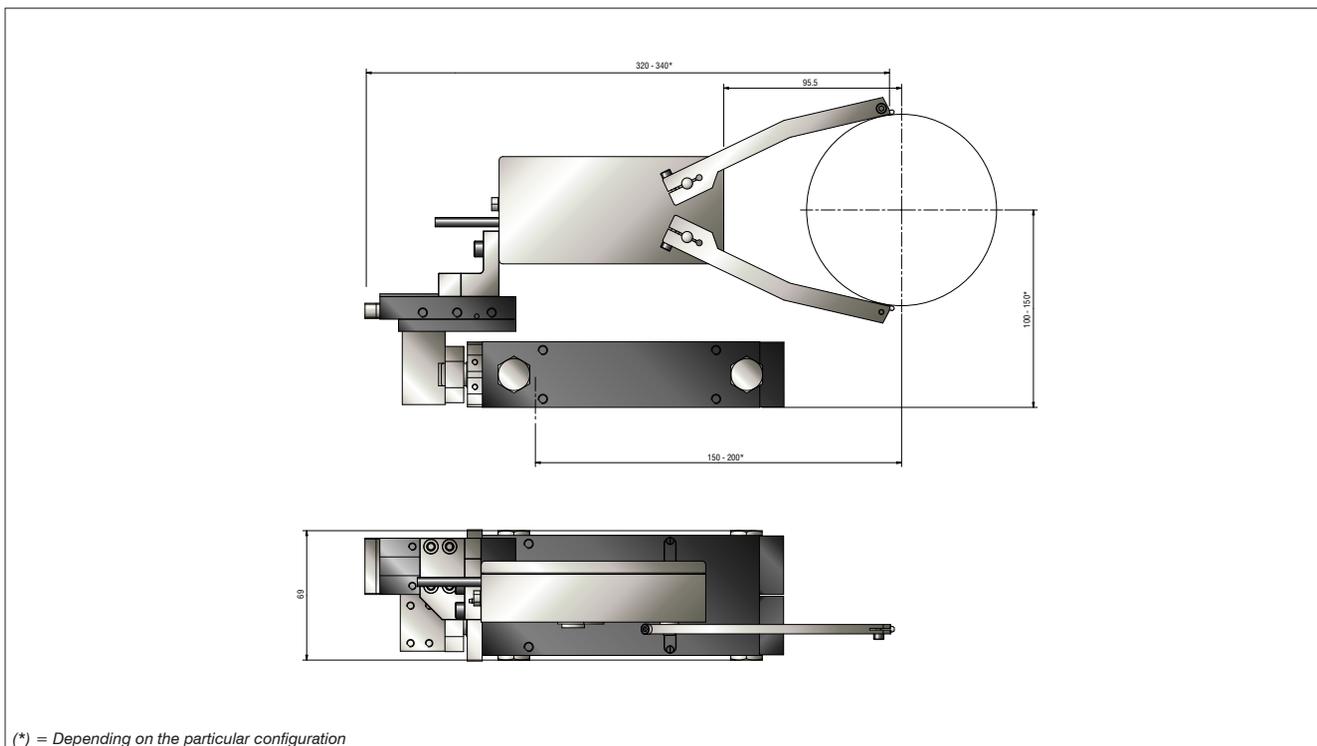
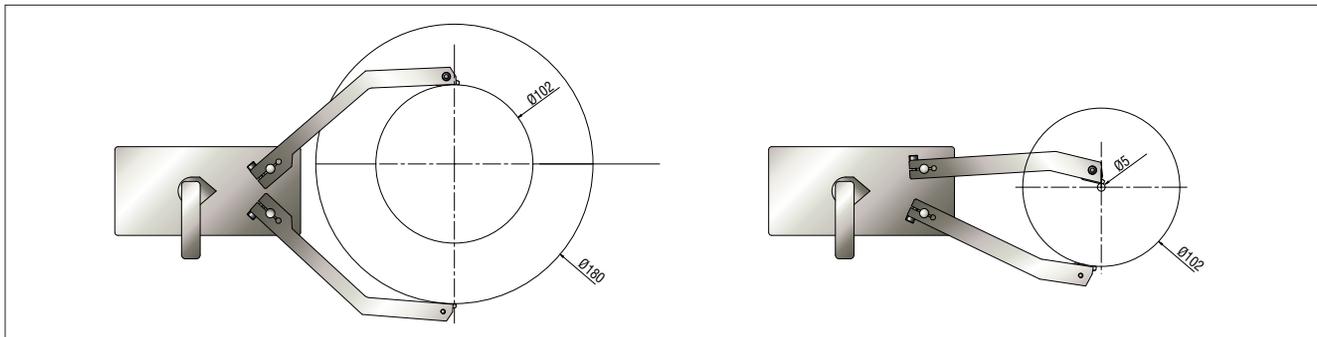
The lever on the side on the gage housing is called Setup Lever and is used for mechanical setup of gage fingers on a specific workpiece or master. In SETUP position, the lever locks the interior arms and holds the measuring transducer in a centred position. The gage fingers are then slipped by pushing the fingers into contact the set up piece. After releasing the setup lever, the gage is ready for electrical zeroing. The whole process can be completed in less than 30 seconds.

The Micromar 8 has a built-in finger retraction arm that is actuated pneumatically.

Main features

- Quick-setup clutch: mechanical fingers setup in seconds
- Stainless steel case and components: durability and corrosion resistance
- Integrated pneumatic retraction
- External contact pressure adjustment: no internal operation are required
- Wide range of finger lengths and sizes: for several application possibility
- Adjustable retraction (overtravel) limits: for small ID and other applications
- Adjustable pretravel limits: controls finger motion below zero
- Optional fluid damping: for use on interrupted surfaces

Specification and dimensions



(*) = Depending on the particular configuration

Technical specifications

MECHANICAL ZEROING RANGE	od: Ø5-180 mm [.20"-7.09"] id: Ø12-165 mm [.47"-6.50"]
REPEATABILITY <i>25 samples on smooth surface</i>	Ø ≤ 0.4 µm [.00002"]
MEASUREMENT FORCE	smooth surfaces
	interrupted surfaces
RETRACTION AMOUNT <i>using 118 mm (4.65") length fingers</i>	5.2 mm

THERMAL DRIFT <i>with 109 mm (4.29") finger length on Ø40 (1.57") steel master</i>	Ø < 0.5 µm/°C [.00001 "/°F]
WEIGHT	1.6 kg [3.53 lbs]
MEASUREMENT FORCE	1 N ± 10% [.22 lbs ± 10%]
RETRACTION PRESSURE	4.0 - 5.5 bar [58.01 - 79.77 psi]
PROTECTION DEGREE <i>(IEC 60529 standard)</i>	IP67



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

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