

INNER DIAMETER 8 GAGE HEAD

The Thruvar 8 Thru-Spindle Gage measures plunge ground workpiece ID's. The Thruvar 8 gage is mounted inside the workhead spindle, allowing easy access for workpiece time measurement of workpiece load/unload.

The gage has a patented slip-clutch mechanism to cut gage setup time to less than 60 seconds.

Quick setup also minimises costly part changeover cost.

The Thruvar 8 measures workpiece inner diameter as the part is ground. The gage signals are processed by a gaging monitor and relay outputs are sent to the grinder based on real size. Feedback I/O's are used to control wheelslide infeed for improved part size and finish consistency. Improved size control translates into improved grinder productivity and reduced direct labour.

The gage consists of a housing with two exterior gauging fingers attached to shafts extending from the inside of the housing. Tension arms inside the housing are attached to the shafts with soft metal clutches. Gauging finger movement is transmitted through the shafts to the interior tension arms.

The shafts are mounted on pre-lubricated ball bearings, and are double sealed where they pass through the case. All parts inside the gage, except the clutch, are either stainless steel or aluminium to minimise corrosion due to condensation. The gage includes three finger retraction settings with a fine adjustment feature.

Main features

- Quick in-spindle setup
- Stainless steel body
- Integrated air retract
- 3 quick retract settings + full-range adjustment
- Smooth surfaces
- RoHS Compliant

Measuring Heads

Electronic Units

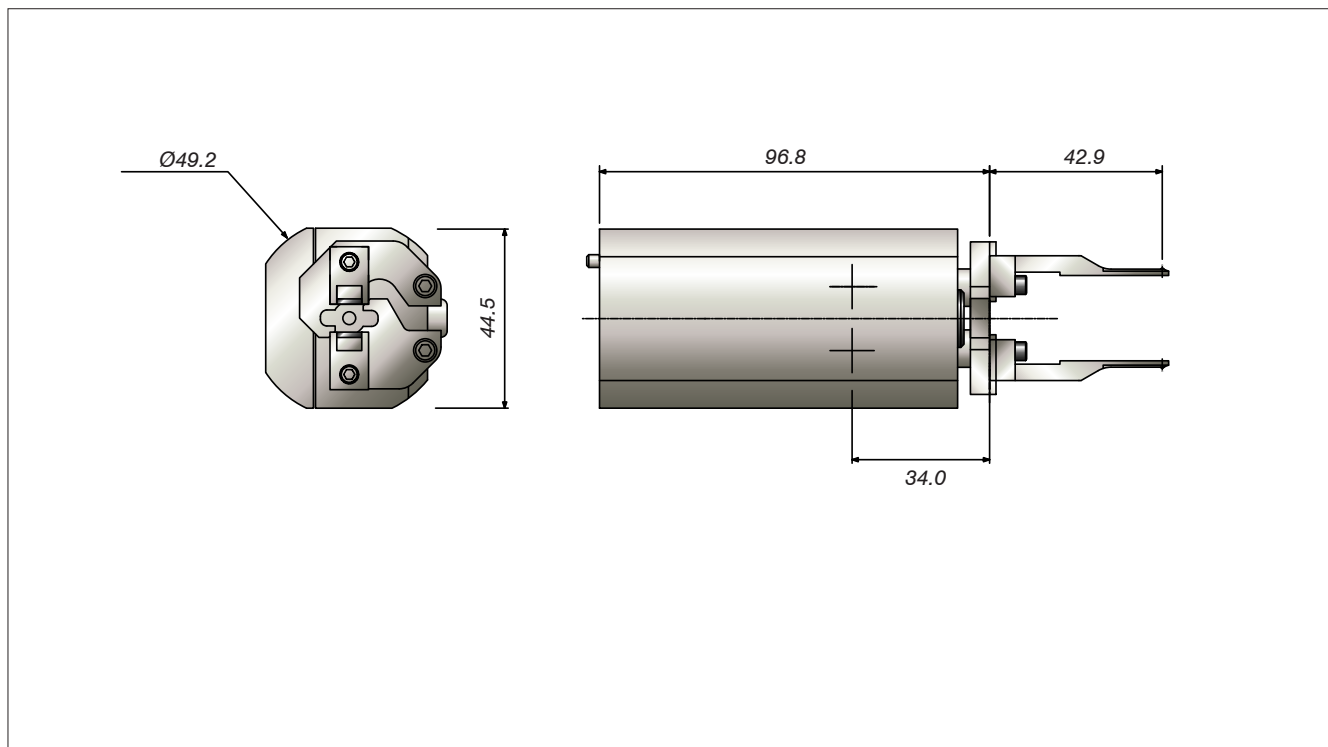
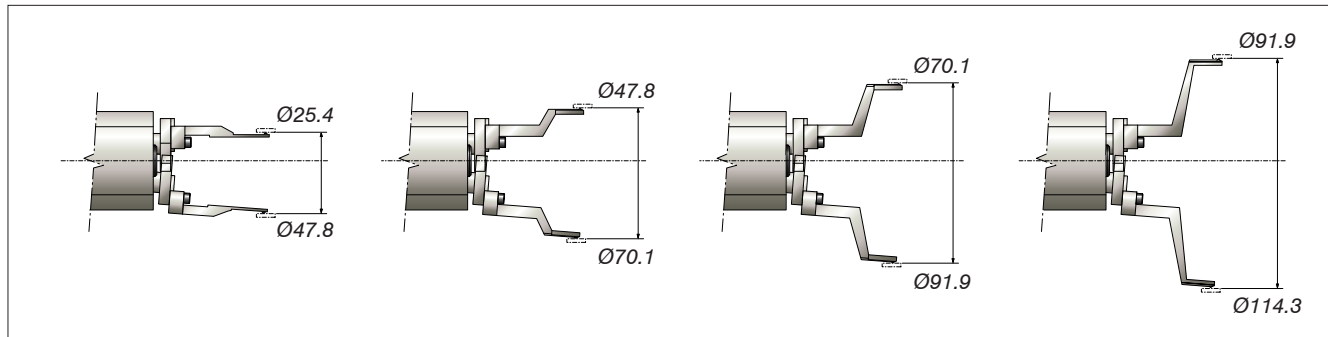
Balancing Heads

Software

Sensors

Accessories

Specification and dimensions



Technical specifications

MEASURE RANGE	Ø9.5-158 mm [.37"-6.22"]
REPEATABILITY <i>25 samples on smooth surface</i>	Ø ≤ 0.5 µm [.00002"]
MEASURE FORCE	120 g ± 5 [0.26 ± 0.01 lbs]
CLUTCH FORCE	2400 g ± 150 [5.29 ± .33 lbs]
RETRACTION TYPE	pneumatic

RETRACTION AMOUNT <i>using 78 mm length fingers</i>	4° 5.1 mm [.20"]
RETRACTION PRESSURE	2.8 - 4.1 bar [40.61-59.47 psi]
WEIGHT	1.1 kg [2.42 lbs]
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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