

IN-PROCESS GAUGING SYSTEM FOR ECCENTRIC SHAFTS

Compact, simple and flexible, the Fenar X gauging system is able to fulfil any application requirement on orbital grinders for smooth eccentric shafts. Thanks to its tracking system, Fenar X provides continuous monitoring of eccentric diameters through the entire orbit, at rotation speeds up to 300 rpm. Reliability, strength and high precision guarantee a radical improvement to small eccentric shafts diameter grinding.

Main features

- Compact
- Large measuring range
- High precision
- Highly flexible

Measuring Heads

Electronic Units

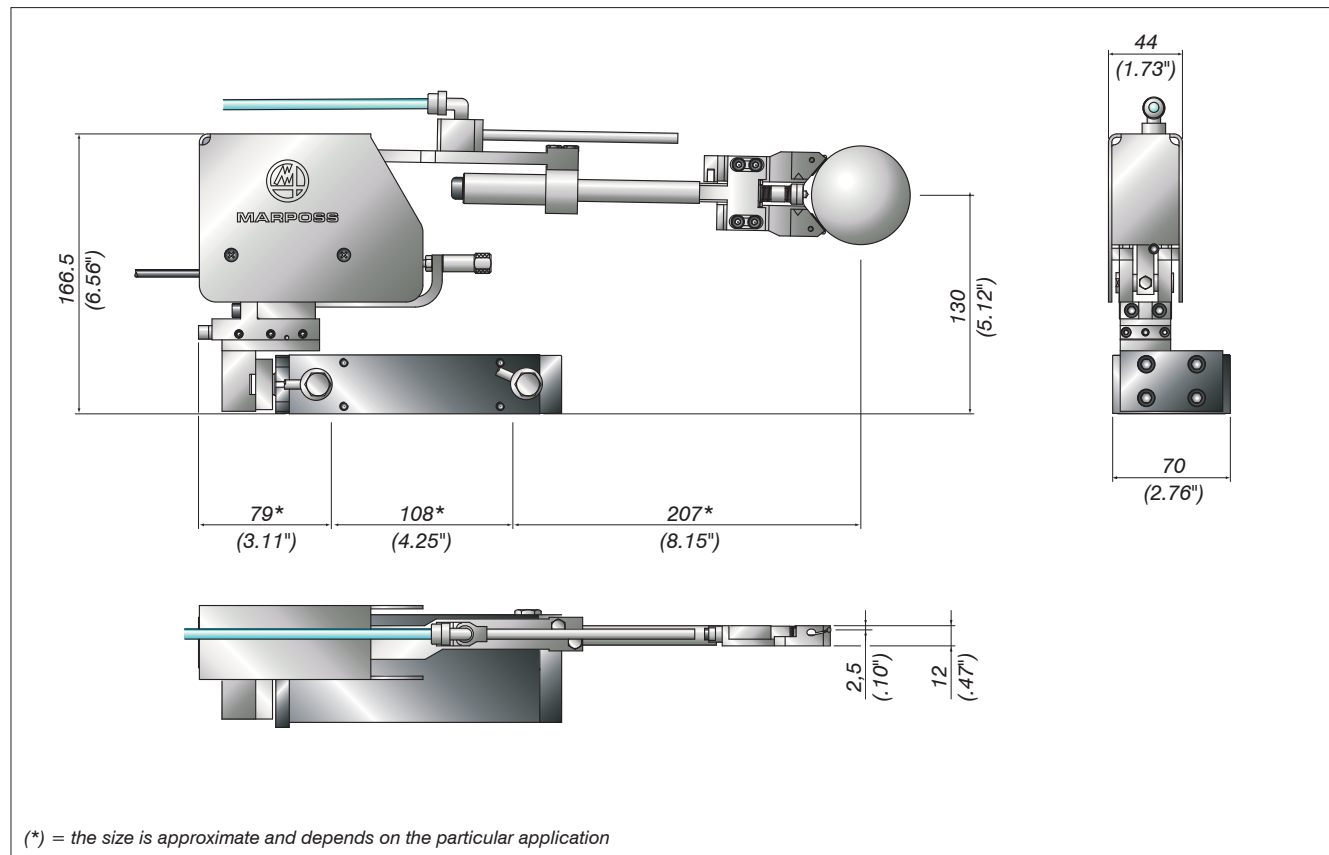
Balancing Heads

Software

Sensors

Accessories

Specifications and dimensions



Technical specifications

Fenar X application range

LINEARITY RANGE	$\pm 2000 \mu\text{m}$ (.08")
SENSITIVITY ERROR	$\pm 6\%$
REPEATABILITY <i>with resolution $0.1 \mu\text{m}$ (.000004") in machine conditions</i>	$\leq 0.8 \mu\text{m}$ (.00003")
THERMAL DRIFT	$\leq 0.3 \mu\text{m}/^\circ\text{C}$ (.000007"/ $^\circ\text{F}$)
MAX. SPEED OF ROTATION	300 rpm
MEASURING RANGE	12 ÷ 40 mm (.47" ÷ 1.58")
MAX. STROKE	21 mm (.79")
MEASURABLE SURFACES	Smooth

Snap gauges application range

Range 25 mm (.98") <i>snap gauge for checking main journals and pin journals with a single gauge which can be automatically reset on a master part for each diameter to be ground that is included in the operating range</i>	resolution 1 μm (.00004")
Range 12,5 mm (.49") <i>snap gauge for checking on machines with twin grinding wheel carriage, one snap gauge dedicated to main journals and one to pin journals; can be automatically reset on a master part for each diameter to be ground that is included in the operating range</i>	resolution 0,1 μm (.000004")
	gauging range 1000 μm (.04")
	gauging range 500 μm (.02")

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

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