PROTOMAR

ABSOLUTE WIDE RANGE MEASURING GAUGE FOR GRINDERS





System description

In order to satisfy increasing quality requirements in the manufacturing of medium and large dimensioned parts, such as broaching tools, railway axles, printing rolls, milling rollers, etc., Marposs developed PROTOMAR and PROTMAR MINI, able to measure during and after the grinding process.

PROTOMAR is an absolute wide range measurement gauge. It's capable of measuring any diameter within the measurement range with no need of any manual retooling or dedicated zeroing when the diameter to be inspected changes. Accuracy and repeatability performances are extremely high for both smooth and interrupted surfaces.

Grinding machines and machining centers, producing workpieces with wide range dimensions or even complex parts having multi diameters sections can be now automatically inspected by PROTOMAR.

PROTOMAR, accuracy and flexibility without compromises.

Main features

- · Absolute and wide range measurement gauge
- High accuracy and repeatability performances
- PRE-IN-POST Process measurements
- · Reliable, sturdy and suitable for harsh environment
- · Thermal environment compensation
- · Auto collision detection while approaching the workpiece
- Electro-actuated movements with optimized axis feed

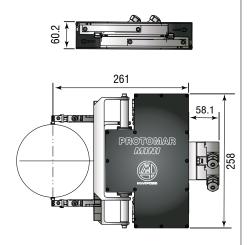




Performances and Dimensions

Protomar MINI

	MINI					
RANGE [mm]	100					
MEASURABLE ØMIN [mm]	7					
MEASURABLE ØMAX [mm]	300					
REPEATABILITY 2σ [μm]	1					
WEIGHT [kg]	6,5					
MEASURABLE SURFACES	Continue - Interrotte					
WORKING TEMPERATURES	10 ÷ 40 °C					
PROTECTION DEGREE (IEC 6059 Standard)	IP66 / 67					

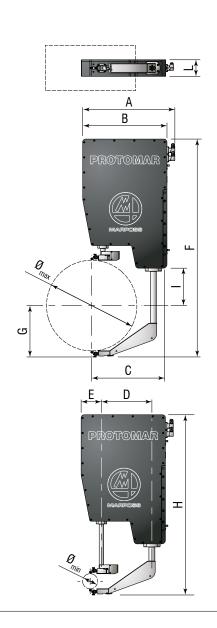


Protomar 100 - 700

	100	200	300	500	700		
RANGE [mm]	100	200	300	500	700		
MEASURABLE ØMIN [mm]	7	7	7	30	50		
MEASURABLE ØMAX [mm]	250	320	440	760	930		
REPEATABILITY 2σ [μm]	1	1	2	2,5	3		
WEIGHT [kg]	7,5	12,5	25	40	≥90		
MEASURABLE SURFACES	Smooth - Interrupted						
WORKING TEMPERATURES	10 ÷ 40 °C						
PROTECTION DEGREE (IEC 6059 Standard)	IP66 / 67						

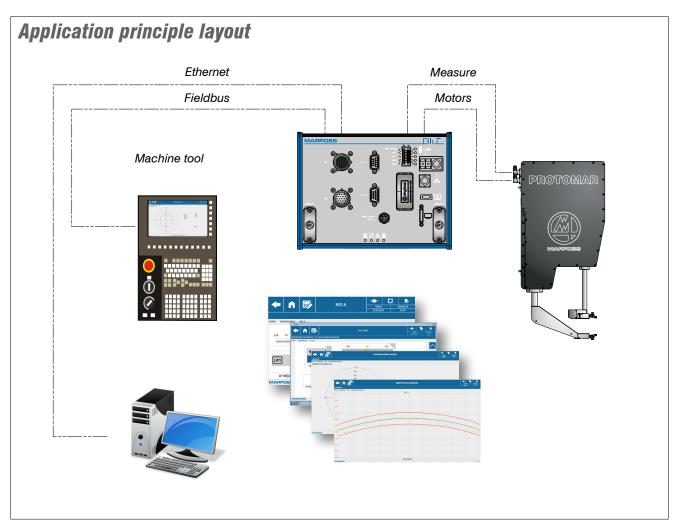
Dimensions [mm]

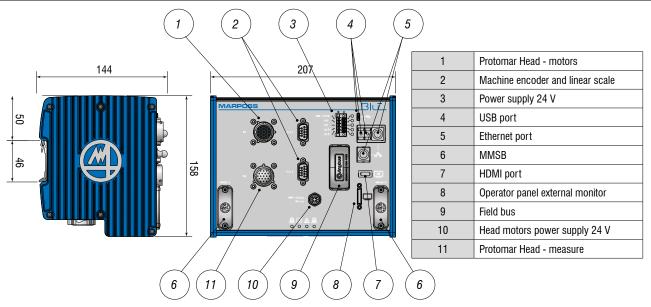
A	312	312	375	612.3	742.3
В	260	260	340	560	690
С	232	232	302.5	485	620
D	125	125	166	335	478
E	21.5	86	100	135	126
F	529	678	978.5	1443	1847
G	93.9	137.6	242	340.5	531
Н	478	578	828.5	1193	1497
I	63.5	70.5	172	247.5	341.1
L	57	57	75	110	115



Dimensions should be considered an indication and maybe subject to change in a specific application









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

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Marposs has an integrated system for Company quality, environmental and safety management, with ISO 9001, ISO 14001 and OHSAS 18001 certification. Marposs has further been qualified EAQF 94 and has obtained the Q1-Award.



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