



BMD PLUG GAUGE **DIATRON1500-S**



Schematic representation of the plug gauge

BMD are self-indicating, self-centering measuring instruments for internal and external measurements with highest precision of up to $< 1\mu\text{m}$ repeatability. This easy-to-use gauge is suitable for a wide range of application.

Long-range security: The data transfer

Display with integrated radio module

All measured values can be transferred via real radio transmission in free field up to 200 m and can be received from PC or DIATRON with antenna. Alternatively the data can also be transmitted via cable (USB or RS232).



Radio transmission module
MDU-OPTO-S

Versatile image: The displays

Measured values can be instantly read on digital or analogue indicators and might also be stored and analyzed depending on the gauge. Digital and analogue indicators have a resolution of up to $1\mu\text{m}$ whereas the DIATRON1500-S even has a resolution of up to $0,1\mu\text{m}$. It is perfect for networked measurement in production due to its two-way radio data exchange and high readout rate during dynamic measurement.



Digital indicator
MDU125

Firm grip: The holders

Holders do not only ensure the safe grip of the plug gauge DIATEST BMD. Holders are able to protect indicators against damage, they can remove the measuring pressure from an indicator or allow the rotation of the BMD in the workpiece.

Electrical probe holders transfer the measured data to a PC or to the DIATRON via transducer. The holder is already permanently attached to the DIATRON1500-S. The integrated buttons are used to transmit measured values by radio.

Holder with M10, M6 and M4 thread



Indicator Holder
MH10-61

Flexible modular system: The accessories

Depending on the measuring job different functions (also in combination) can be used. You can e.g. increase the measuring depth, bridge different connection threads, use right angle attachments in confined spaces, mount floating holders for the automatic measuring or measure in a defined depth by means of a depth stop.



Depth extension
TV15-45

Versatile standard: The plug gauge DIATEST BMD

With the large variety of standard types most common bores which might occur in practice can be measured. The BMDs are made of tough, rust-resistant steel. Various measuring contacts are available, e.g. DLC-coated measuring contacts (diamond-like carbon). Free forms can be realized.



Standard plug gauge,
made of tough,
rust-resistant steel

Accuracy as degree: The setting master

The setting master sets the BMD to zero position. It should always be dimensioned for the minimum bore size in order to avoid radial and axial errors during the calibration. Setting masters are not bound to any particular shape.



DIN setting ring
2250-C



DIATRON1500-S



Radio transmission module



Radio transmission antenna



Data transfer cable
USB / RS232



PC / notebook



Analogue indicator



Digital indicator with
traffic-light-display



Digital display



Electronic column



Network-compatible measuring
computer with storage functions
and statistical analysis

DIATRON



Indicator holder



Indicator holder
with impact protection



Indicator holder with gauging
pressure retraction



Rotary indicator holder



Electrical probe holder
for transducers



Depth extension



Adapter thread sizes



Right-angle attachment



Floating holder



Depth Stop



Gauging e.g.
on the bore ground



Shaft measurement



Multi-level gauging



Gear gauging



Measuring of the
outer diameter



Diatest Zetting ring
(similar to DIN 2250-C rings)



Diatest setting ring
(company standard)



Setting master for
shaft measurement



Setting master for
parallel gauging



Setting master for measuring
outer diameters

HOLDERS	MH6-51	MH4-67-F	MH6-150	MH6-51	MH6-150	EH-V6	MH10-61	MH10-150	EH-V10
									
	M6x0,75	M3,5x0,35	M6x0,75	M6x0,75	M6x0,75	M6x0,75	M10x1	M10x1	M10x1
DEPTH EXTENSION, RIGTH ANGLE ATTACHMENTS, ADAPTERS	M6x0,75			M6x0,75			M10x1		
		M6x0,75	A4-6		M6x0,75	W6		M10x1	W10
	M3,5x0,35	M3,5x0,35		M6x0,75	M6x0,75		M10x1	M10x1	
BMD									
		M3,5x0,35			M6x0,75			M10x1	
	BMD Series 4			BMD Series 6			BMD Series 10		



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