

# ABSOLUTE DIGIMATIC Bore Gauge



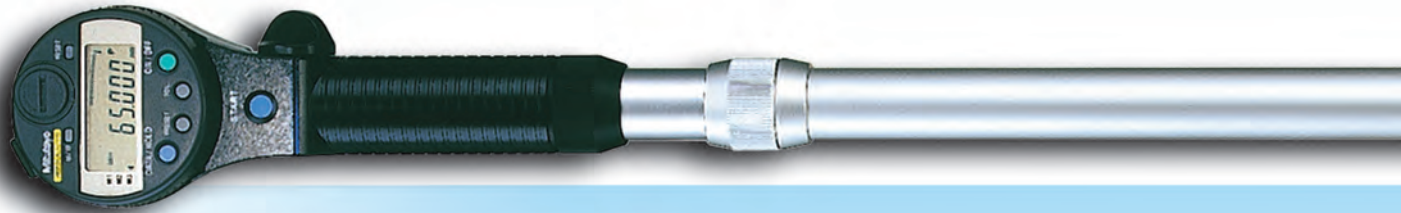
Highly accurate, ultra deep bore measurements.

**ABSOLUTE™**

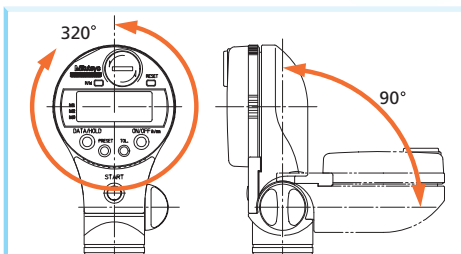
Absolute System Patented by MITUTOYO

**Mitutoyo**

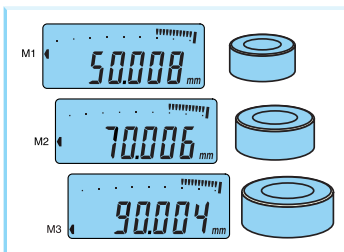
# Measures bore diameters more than two metres deep.



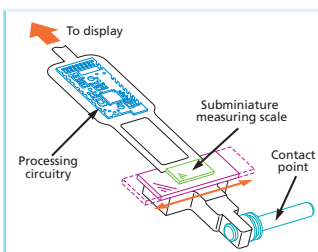
## Features



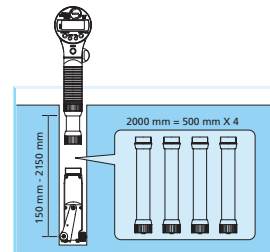
Display can be rotated 320° and inclined at up to 90° for best viewing angle.  
Grip can be rotated 320°.



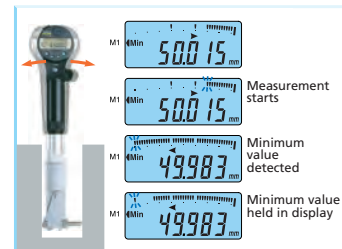
Up to three calibration diameter values can be preset in memory and recalled at the push of a button, together with the associated upper and lower bore diameter limits (if set).



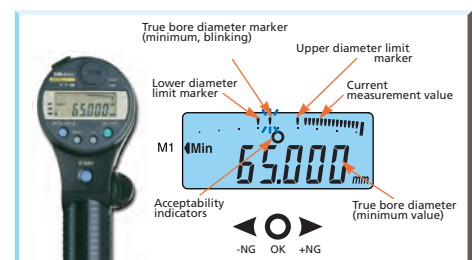
Even at maximum extension (four 500 mm tubes), the instrument's accuracy of 3 µm is maintained by digitally transmitting the scale reading from the measuring head to the display.



Up to four extension tubes (250 or 500 mm long) can be added to the basic instrument to achieve a maximum measuring depth of 2150 mm.



The minimum diameter value detected during the measurement (the true diameter) is automatically held in the digital readout and its position shown relative to the tolerance band by a marker on the analogue scale.



The multi-function display with its digital high-resolution readout, 'instant overview' provided by the analogue scale centered on the mid-tolerance band diameter with automatically positioned limit markers, GO/NG acceptability indication and the ABSolute function's calibration retention makes measuring bore diameters easy and reliable.



## Specifications

Code No.	511-521	511-522
Measuring range	Ø45-100 mm / Ø1.8-4"	Ø100-160 mm / Ø4-6"
Plunger stroke	1.2 mm / 0.048"	
Measuring depth range	150 mm (5.9") basic to 2150 mm (84.6") extended	
Resolution	1 µm / 0.00005"	
Accuracy*	Full stroke	3 µm / 0.00012"
	Partial stroke	2 µm / 0.00008"
Repeatability	± 1 digit	
Maximum counting error	± 1 digit	
Measuring force	≤ 5 N	
LCD display	Six digit, seven-segment numeric with minus sign; mm/in; tolerance-judgement; analogue scale	
Data interface**	DIGIMATIC output port	
Battery	Silver oxide cell SR-44 (2 pcs)	
Battery life	Approximately nine months with normal use	
Measuring system	High-stability capacitance type ABSOLUTE linear encoder	
Sampling frequency	50 measurements per second	
Dust/water protection level***	IP53	
Operating temperature	0 to 40°C	
Storage temperature	-10 to 60°C	
Mass	500 g (2.2 kg extended by 2 m)	570 g (2.3 kg extended by 2 m)
Standard accessories	Anvils	12 pcs
	Spacers	4 pcs
	Allen wrench	1 pc
	SR-44 cells	2 pcs

\* Not including counting error

\*\* Data Output Cable required (optional accessory)

\*\*\* Dust/water protection level is based on IEC 529 / JIS D0207 and C0920

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