

Mitutoyo

Absolute Digimatic Bore Gage



**Deep-bore measuring
with extreme accuracy!**

Absolute Digital

Features

The unit features a compact digital detector head that eliminates the need for a cam mechanism, and transmits the measured value to the display unit.

- The Digimatic Bore Gage achieves $.00012''/0.003$ mm wide-range accuracy, the highest in Mitutoyo's Bore Gage Series!
- A variety of display and measurement functions.
- Absolute encoders with absolute origin and high sampling frequency (50 times/sec.) are used for superior reliability.
- The Digimatic Bore Gage features a dust/water protection level of IP53.



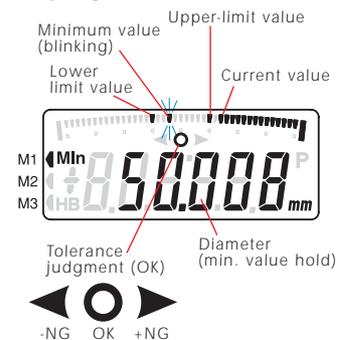
- Display can be rotated 320° and inclined 90° , and grip can be rotated 320° .



- Digimatic Bore Gage detects the minimum position (diameter) and holds that value automatically



- Easy to read, thanks to digital and analog displays.



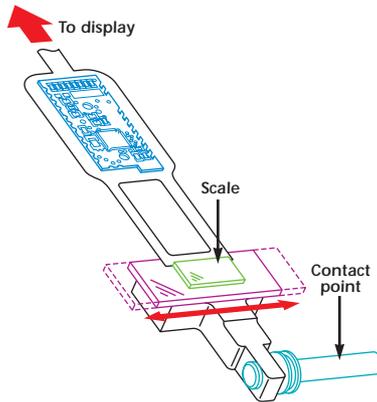
Automatic Bore Gage



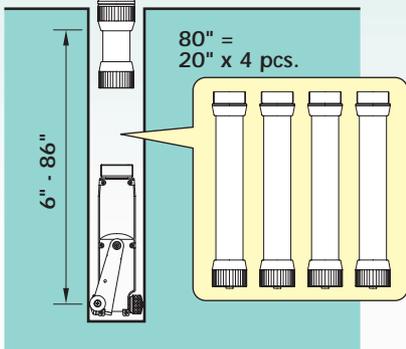
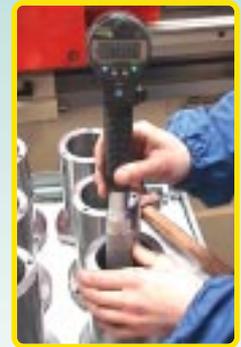
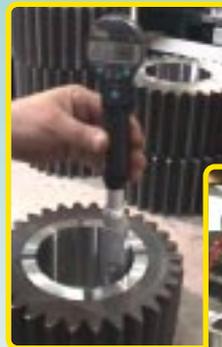
- Capable of presetting three reference (master) values, with upper/lower tolerance limits set for each.



- Long extension is achieved without a loss in accuracy, thanks to electronic connection.



Examples of application



Bore measurement up to 80" (2m) is possible!

- Up to four rods can be used (20" (500 mm) extension rod). The unit is also compatible with 10" (250 mm) extension rods.

SPECIFICATIONS

Order No.	511-521
Measuring range	1.8"~4"/45~100mm
Effective stroke of anvil	.048"/1.2mm
Resolution	.00005"/0.001mm
Wide range accuracy*1	.00012"/0.003mm or less
Adjacent error	.00008"/0.002mm or less
Repeatability	+/-1 count
Quantization error	+/-1 count
Measuring force	5N or less
LCD panel	Seven-segment, six-digit minus sign, in/mm decimal, tolerance-judgment display, analog display
Data output	SPC
Battery	Silver oxide cell SR-44(2pcs)
Battery life	About 9 months for normal use
Measuring system	Electrostatic capacitance absolute linear encoder
Sampling frequency	50 times/sec
Dust/water protection level*2	IP53
Operating temperature	0°C to 40°C
Storage temperature	-10°C to 60°C
Standard accessories	Anvil: 12pcs, changing washer: 4pcs., Allen wrench: 1pc, SR-44(541980:) 2pcs.
Mass	500g/1.1lbs.

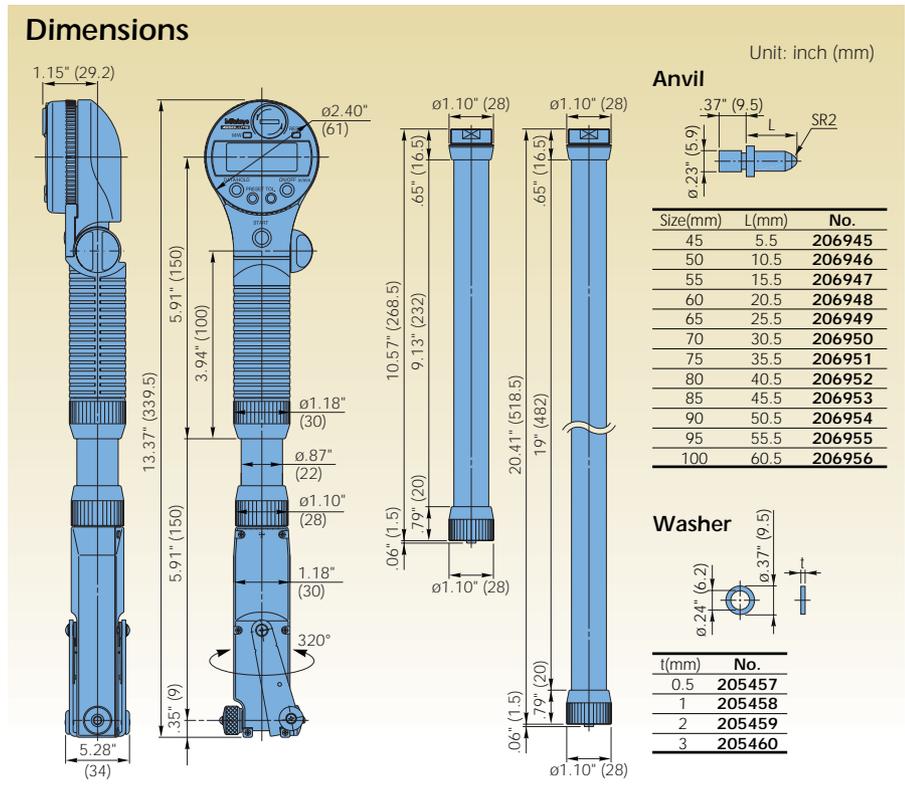
*1 Quantization error is not included.
 *2 The dust/water protection level is based on IEC, 529/JIS, D0207 and C0920.

OPTIONAL ACCESSORIES

- 21DZA089:** Extension rod 10"/(250 mm)
- 21DZA081:** Extension rod 20"/(500 mm)
- 264-504A:** DP-1VR (120V)
- 905338:** SPC cable 40"/(1m)
- 905409:** SPC cable 80"/(2m)



DP-1VR and SPC cable



516-118-22: Rectangular gauge block set for master setting



516-119-22: Square gauge block set for master setting



Specifications are subject to change without notice.



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