# ABSOLUTE DIGIMATIC BORE GAGE



**CATALOG No. E4208-511** 

Deep-bore measuring with extreme accuracy!



# Absolute Digimatic Bore Gage





## **FEATURES**

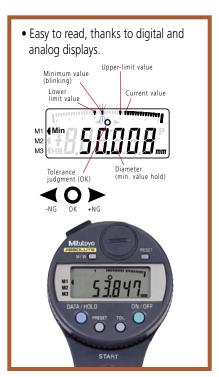
The unit features a compact digital detecter head that eliminates the need for mechanical conversion such as a can mechanism, and the measured value is digitally transmitted to the display unit.

- The Digimatic Bore Gage achieves 0.003mm widerange 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.

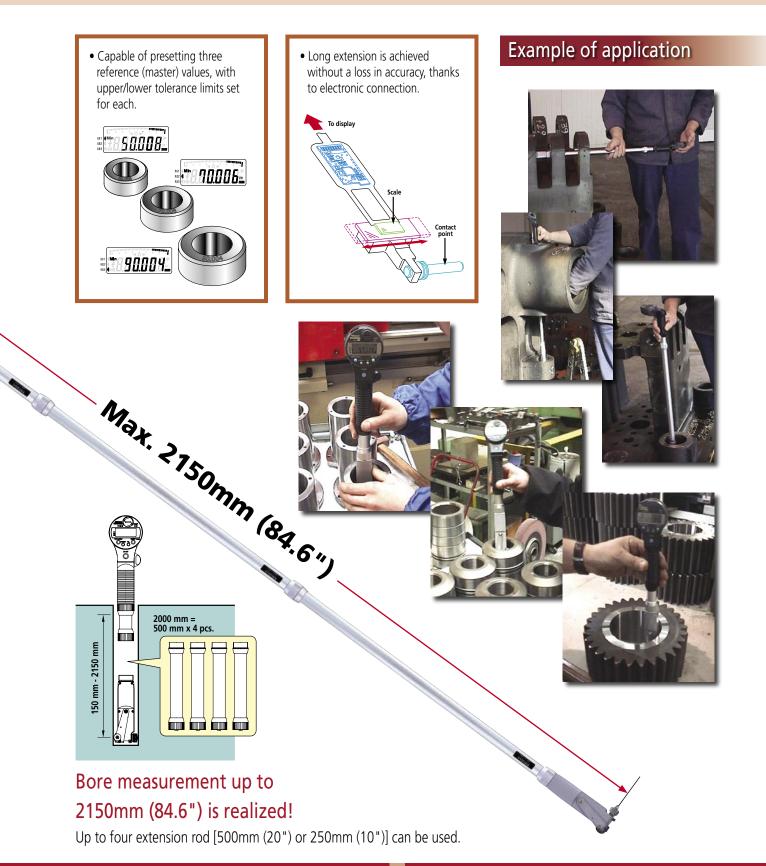








# ABSOLUTE TM Absolute System Patented by MITUTOYO



# **SPECIFICATIONS**

Order No.	511-521	511-522	511-501	511-502	
Measuring range	45-100mm/1.8"-4"	100-160mm/4"-6.4"	45-100mm	100-160mm	
Effective stroke of anvil	1.2mm/.048"		1.2mm		
Resolution	0.001mm/.00005"		0.001mm		
Wide range accuracy*1	0.003mm/.00012"or less		0.003mm or less		
Adjacent error	0.002mm/.00008"or less		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 month for normal use				
Measuirng 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 (for mm), 13pcs (for inch/mm), changing washer: 4pcs., Allen Wrench: 1pc, SR-44 (938882) 2pcs				
Mass	500g/1.1lbs.	570g/1.2lbs.	500g/1.1lbs.	570g/1.2lbs.	

SPC cable 2m/(80")

## **OPTIONAL ACCESSORIES**

21DZA089: Extension rod 254-504E:

DP-1VR (230/240V) 905338: SPC cable 1m/(40") 250mm/(10")

905409:

21DZA081: Extension rod

250mm/(10")

DP-1VR and SPC cable

254-504: DP-VR (100V) **254-504A:** DP-1VR (120V) **254-504D:** DP-1VR (220V)



block set for master setting





Square gauge 516-119:

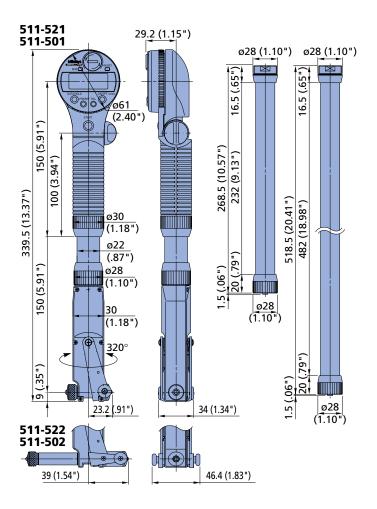




<sup>\*1</sup> Quantization error is not included.

<sup>\*2</sup> The dust/water protection level is based on IEC, 529 / JIS, D0207 and C0920.

Dimensions Unit: mm (inch)







Parts no.	1	Parts No.	ı
(mm)	(mm)	(mm)	(inch/mm)
206945	5.5	207523	0.24"/6.06
206946	10.5	207524	0.44"/11.14
206947	15.5	207525	0.64"/16.22
206948	20.5	207526	0.84"/21.30
206949	25.5	207527	1.04"/26.38
206950	30.5	207528	1.24"/31.46
206951	35.5	207529	1.44"/36.54
206952	40.5	207530	1.64"/41.62
206953	45.5	207531	1.84"/46.70
206954	50.5	207532	2.04"/51.78
206955	55.5	207533	2.24"/56.86
206956	60.5	207534	2.44"/61.94
207119	65.5	207535	2.64"/67.02

### Washer



t(mm)	No.
0.5	205457
1	205458
2	205459
3	205460



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Sensor Systems

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