Technical Data

Accuracy*:	3 μm/.00012"
Repeatability:	2 μm/.00008"
Narrow-range accuracy	:2 µm/.00008"
Scale type:	ABSOLUTE electrostatic linear encoder
Max. response speed:	Unlimited
Battery:	SR44 (2 pcs.), 938882
Battery life:	Approx. 2000 hours under normal use
* Excluding guantizing er	ror

Functions

Presetting Preset Power on/off Inch/mm conversion Data output GO/±NG tolerance judgement Min value holding Data hold Alarm: Low battery voltage, scale contamination, overflow error, tolerance limit setting error



Optional Accessories

<u> </u>		
Code No.	Description	
516-118-10	Setup metric rectangular gauge block set	
905338	SPC data cable (1 m)	
905409	SPC data cable (2 m)	
02AZD790F	U-WAVE-T data cable (160 mm)	
02AZE140F	U-WAVE-T data cable with footswitch connection (160/500 mm)	
06AFM380F	USB input tool direct (2 m)	
21DZA081	Extension rod 500 mm (20")	
21DZA089	Extension rod 250 mm (10")	



Setting the Bore Gauge to a master value using a gauge block set.

SERIES 511 – ABSOLUTE Digimatic Bore Gauge

- **MeasurLink**[®] **ENABLED** Data Management Software by Mitutoyo
- ABSOLUTE



- This ABSOLUTE Digimatic bore gauge is exclusively designed for inside diameter measurement.
- Up to four extension rods (250 mm or 500 mm) can be used for measuring at the bottom of a hole 2 m deep.
- The display and grip can be rotated up to 320° and the display can be inclined up to 90°, so that it is easily readable from any direction.
- The minimum value holding function provides easy measurement of hole diameter.
- Interchangeable washers are supplied as standard accessories to enable setting in small steps.
- Setting the bore gauge to a master value using a gauge block set allows quick and accurate setting.
- An optional inside-length standard, such as a setting ring or Inside Micro Checker (see pages C-37 to C-38 or page C-24, respectively), is required for accurately setting the gauge before measurement.



With optional extension rods

Specifications

Inch/weuric					
Code No.	Range	Measuring force	Resolution	Anvils	Probing depth
511-521	1.8-4.0" (45.72-101.6 mm)	5 N or less	.0005" (0.001 mm)	12 pcs.	6" (150 mm)
511-522	4.0-6.5" (101.6-165.1 mm)			13 pcs.	

Dimensions



Itoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances. Therefore the company reserves the right to change any or all aspects of any product specification without notice.



