

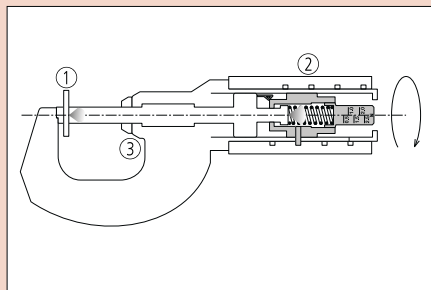
Technical Data

Flatness:	.00012" (0.3 μm)
Parallelism:	.00008" (2 μm)
Measurement posture:	Horizontal orientation only (recommended spindle inclination: within ±3°)
Battery:	SR44 (1 pc), 938882
Battery life:	Approx. 3 years under normal use (1 year for 227-213/16/17-20)

Functions

Adjustable measuring force mechanism, hold, origin point setting, ABS measurement system, low voltage alarm, data output, presetting (227-213/16/17-20).

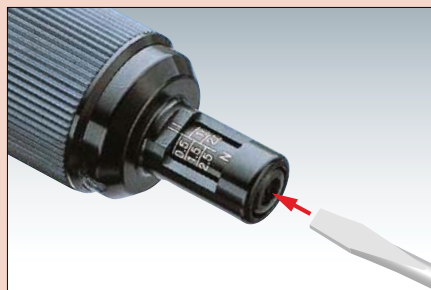
Operation



- ① Measuring force is generated by the action of trapping a workpiece between the spindle face and the anvil.
- ② The constant-force unit applies the specified measuring force.
- ③ When the preset measuring force is reached, the value on the LCD is automatically held and the hold symbol appears. (To cancel the hold, reverse the thimble more than 1/10 revolution and press the hold button.)

Optional Accessories

Code No.	Description
02AZD790B	U-WAVE-T data cable with pushbutton (160 mm)
02AZE140B	U-WAVE-T data cable with pushbutton and footswitch connection (160/500 mm)
05CZA662	SPC data cable (1 m)
05CZA663	SPC data cable (2 m)
06AFM380B	USB input tool direct USB-ITN-B (2 m)



Adjustable measuring force

To preset the measuring force, adjust the measuring force setting scale on the thimble with the screwdriver supplied.



SERIES 227 – ABSOLUTE Digimatic Adjustable Measuring Force Micrometer

- Digimatic micrometer dedicated to applications requiring a constant/low measuring force such as measuring wire, paper, and plastic/rubber parts.
- Ratchet mechanism in the thimble applies constant force to workpiece.
- Measuring force is adjustable (in steps) to suit various kinds of workpiece.
- High-accuracy measurement can be performed even by unskilled operators due to the repeatability of the automatically applied measuring force.
- Compact and easy to handle.
- Non-rotating spindle.
- Measuring faces: carbide.

MeasurLink ENABLED
Data Management Software by Mitutoyo

ABSOLUTE



227-211-20

Specifications

Inch/Metric					
Code No.	227-211-20	227-213-20	227-215-20	227-216-20	227-217-20
Range	0-.6" (0-15.24 mm)	.6-1.2" (15.24-30.48 mm)	0-.4" (0-10.16 mm)	.4-.8" (10.16-20.32 mm)	.8-1.2" (20.32-30.48 mm)
Measuring force range	0.5-2.5 N		2-10 N		
Resolution	.00005" (0.001 mm)				
Accuracy*1	±.0001" (±2 μm)				
Measuring force	0.5, 1.0, 1.5, 2.0, 2.5 N		2, 4, 6, 8, 10 N		
Accuracy of the selected measuring force*2	± (0.1 + the selected measuring force/10) N		± (0.4 + the selected measuring force/10) N		
Repeatability of measuring force*2	Within 0.1 N		Within 0.4 N		
Mass	300 g	380 g	345 g	425 g	415 g

*1 Excluding quantizing error.

*2 These values are guaranteed when used in a horizontal orientation (within ±3 degrees).

Dimensions

