Micrometers

SERIES 343 – Digimatic Caliper Anvil Micrometer

- Effective for measuring workpiece features where access is difficult.
- Measuring faces: carbide.
- Equipped with Ratchet Stop for constant measuring force.

MeasurLink® ENABLED
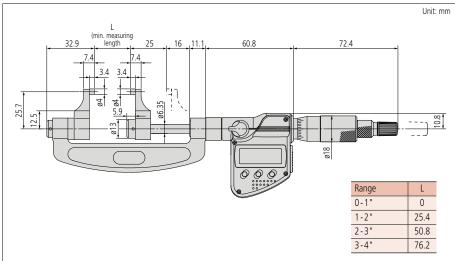Data Management Software by Mitutoyo

343-350-30

Technical Data

Flatness:	0.000012" (.3 μm)
Parallelism*:	[.00012+.00004(R/3)]",
	(3+R/75) μm
Battery:	SR44 (2 pcs) **938882**

* R = max. range (mm/inch).
Note: Fractions rounded down.

Functions

Origin point setting (ABS measurement system):
Resets the ABS origin at the current spindle position to the minimum value of the measuring range and switches to ABS mode.

Zero setting (INC measurement system):
A brief press on the ZERO/ABS button sets display to zero at the current spindle position and switches to the incremental (INC) measuring mode. A longer press resets to the ABS measuring mode.

Hold:
Pressing the HOLD button freezes the current value in the display. This function is useful for preserving a measurement in situations of poor visibility where the instrument must be moved away from the workpiece before the reading can be recorded.

Auto power ON/OFF:
The reading on the LCD disappears after this instrument is idle for about 20 minutes, but the reading and measurement mode are retained. Turning the spindle causes the reading to reappear.

Data output:
Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

Error alarm:
In the unlikely event of a display overflow or calculation error, an error message is displayed and measurement stops. Measurement cannot continue until the error is corrected. Also, if the battery voltage drops below a certain point, the battery indicator will turn on before measurement becomes impossible, warning the user that the battery needs to be replaced.

Specifications

Inch/Metric

Code No.	Range	Resolution	Accuracy*	
343-350-30	0 - 1" (0 - 25.4 mm)		±.00025" (±5 μm)	
343-351-30	1 - 2" (25.4 - 50.8 mm)	.00005" (0.001 mm)	±.0003" (±6 μm)	
343-352-30	2 - 3" (50.8 - 76.2 mm)		±.00035" (±7 μm)	
343-353-30	3 - 4" (76.2 - 101.6 mm)		±.0004" (±8 μm)	

* Excluding quantizing error.

Optional Accessories

Code No.	Description	
264-623	U-WAVE-TM transmitter	
02AZF310	U-WAVE-TM connection unit	
05CZA662	SPC data cable with pushbutton (1 m)	
05CZA663	SPC data cable with pushbutton (2 m)	
06AFM380B	USB input tool direct USB-ITN-B (2 m)	

Dimensions

Unit: mm

L (min. measuring length)

Range	L
0 - 1"	0
1 - 2"	25.4
2 - 3"	50.8
3 - 4"	76.2

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