

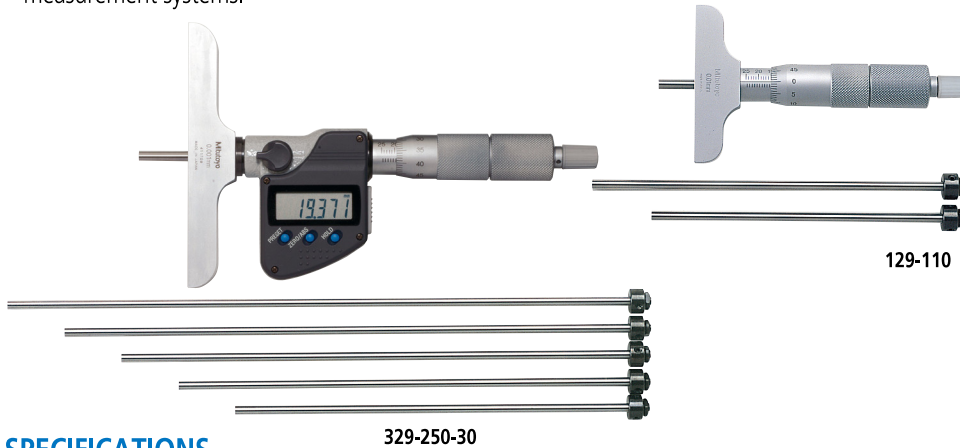
Depth Gage

A standard measuring tool of industry

Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

- This type uses interchangeable rods to enable wide-range measurement.
- **Order No. 329-250-30, 329-251-30, 329-350-30, and 329-351-30** allow integration into statistical process control and measurement systems.
- Measuring rod diameter: 4 mm
- Measuring rod lock.
- Ratchet stop provides constant measuring force.



SPECIFICATIONS

Metric				
Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-250-30	0 - 150 mm	0.001 mm	101.6 x 16 mm	6
329-251-30	0 - 300 mm			12

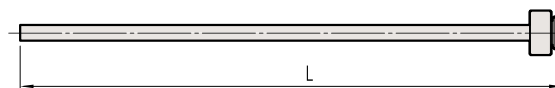
Metric				
Order No.	Range	Graduation	Base	No. of rods
Analog				
129-154	0 - 25 mm	0.01 mm	63.5 x 16 mm	1
129-155			101.6 x 16 mm	
129-109	0 - 50 mm		63.5 x 16 mm	2
129-113			101.6 x 16 mm	
129-110	0 - 75 mm		63.5 x 16 mm	3
129-114			101.6 x 16 mm	
129-111	0 - 100 mm		63.5 x 16 mm	4
129-115			101.6 x 16 mm	
129-112	0 - 150 mm		63.5 x 16 mm	6
129-116			101.6 x 16 mm	
129-152	0 - 300 mm		63.5 x 16 mm	12
129-153			101.6 x 16 mm	

Inch/Metric				
Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-350-30	0 - 6 in	0.00005 in/0.001 mm	4 in x 0.63 in	6
329-351-30	0 - 12 in	0.0001 in/0.001 mm		12

Inch				
Order No.	Range	Graduation	Base	No. of rods
Analog				
129-129	0 - 2 in	0.001 in	4 in x 0.63 in	2
129-126	0 - 3 in		2.5 in x 0.63 in	3
129-130			4 in x 0.63 in	
129-127	0 - 4 in		2.5 in x 0.63 in	4
129-131			4 in x 0.63 in	
129-128	0 - 6 in		2.5 in x 0.63 in	6
129-132			4 in x 0.63 in	
129-149	0 - 12 in		2.5 in x 0.63 in	12
129-150			4 in x 0.63 in	

* For the function of Digimatic models **329-250-30, 329-251-30, 329-350-30, and 329-351-30**, refer to page D-62. These models are not waterproof.

Interchangeable rod (Optional Accessories) (Check and adjust the origin point before measurement)



Unit: mm

Range		0 - 25 mm	25 - 50 mm	50 - 75 mm	75 - 100 mm	100 - 125 mm	125 - 150 mm	150 - 175 mm	175 - 200 mm	200 - 225 mm	225 - 250 mm	250 - 275 mm	275 - 300 mm
Analog models	Order No.	983501	983503	983505	983507	983509	983511	983525	983527	983529	983531	983533	983535
	L	104 mm	129 mm	154 mm	179 mm	204 mm	229 mm	254 mm	279 mm	304 mm	329 mm	354 mm	379 mm
Digimatic models	Order No.	983505	983507	983509	983511	983525	983527	983529	983531	983533	983535	981781	981782
	L	154 mm	179 mm	204 mm	229 mm	254 mm	279 mm	304 mm	329 mm	354 mm	379 mm	404 mm	429 mm

Range		0 - 1 in	1 - 2 in	2 - 3 in	3 - 4 in	4 - 5 in	5 - 6 in	6 - 7 in	7 - 8 in	8 - 9 in	9 - 10 in	10 - 11 in	11 - 12 in
Analog models	Order No.	983502	983504	983506	983508	983510	983512	983526	983528	983530	983532	983534	983536
	L	104.3 mm	129.7 mm	155.1 mm	180.5 mm	205.9 mm	231.3 mm	256.7 mm	282.1 mm	307.5 mm	332.9 mm	358.3 mm	383.7 mm
Digimatic models	Order No.	983506	983508	983510	983512	983526	983528	983530	983532	983534	983536	981783	981784
	L	155.1 mm	180.5 mm	205.9 mm	231.3 mm	256.7 mm	282.1 mm	307.5 mm	332.9 mm	358.3 mm	383.7 mm	409.1 mm	434.5 mm

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

Technical Data

Accuracy:
 $\pm 3 \mu\text{m} / \pm 0.00015 \text{ inch}$ for micrometer head
(Excluding quantizing error)
Flatness of reference face:
1.3 μm (0.00005 in) for 63.5 mm (2.5 in) length base,
2 μm (0.00008 in) for 101.6 mm (4 in) length base
Flatness of measuring rod face: 0.3 μm (0.000012 in)
Parallelism between reference face and measuring rod face:
(4+R/50) μm , R = Max. measuring length (mm)
[0.0002+0.00005(R/2)] in
Fraction rounded up
 $\pm (2+R/75) \mu\text{m}$ for interchangeable rod,
[0.0001+0.00005(R/3)] in
R = Max. range (mm)
Fraction rounded up
Battery: **SR44** (1 pc), **938882**,
for initial operational checks (standard accessory)
Battery life*: Approx. 2.4 years under normal use
* Digital models
Scale type: Electromagnetic induction absolute encoder

Optional accessories for 329-250-30, 329-251-30, 329-350-30, and 329-351-30.

For details, refer to page D-39.
Connection cable for **329-250-30, 329-251-30, 329-350-30, and 329-351-30**
05CZA662: SPC cable with data button (1 m)
05CZA663: SPC cable with data button (2 m)
USB Input Tool Direct
06AFM380B: SPC cable for **USB-ITN-B** (2 m)
Wireless data output **U-WAVE**
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details

Functions of 329-250-30, 329-251-30, 329-350-30, and 329-351-30

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.

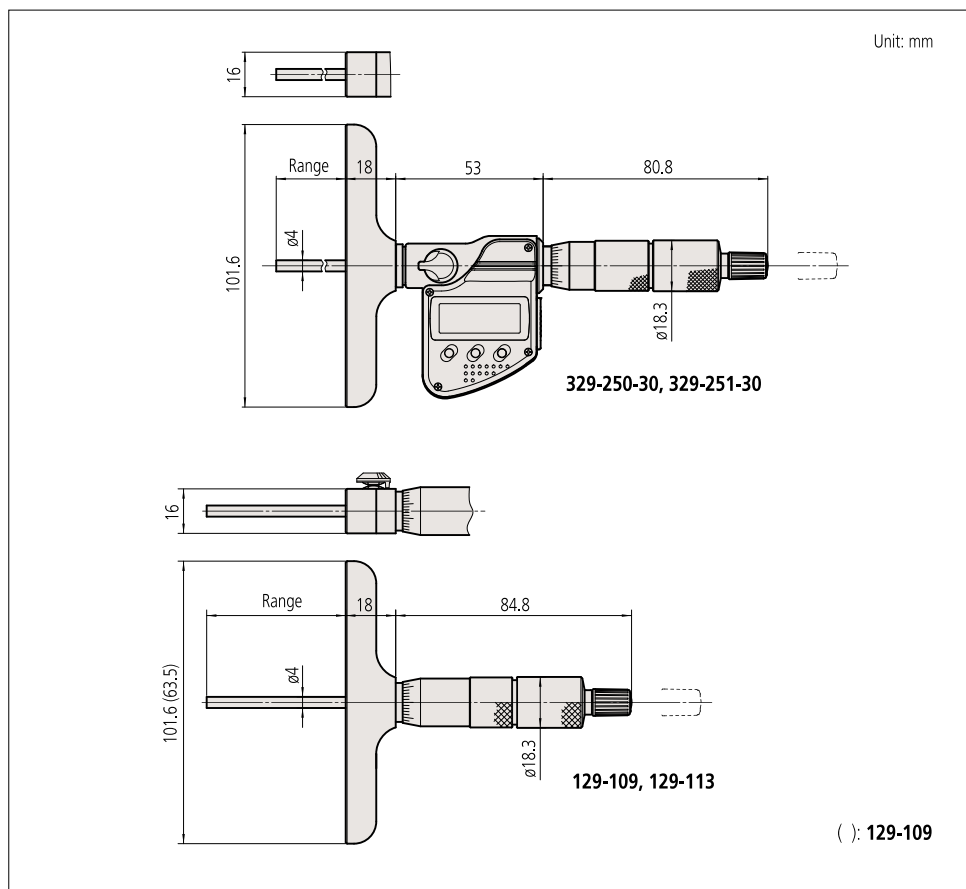
Function lock: This function allows the PRESET (origin point setting) function and the ZERO (zero-setting) function to be locked to prevent these points being reset accidentally.

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 case of an overflow on the LCD or a computing error, an error message appears on the LCD, and the measuring function stops. This prevents an instrument from giving an erroneous reading. Also, when the battery voltage drops to a certain level, the low-battery-voltage alarm annunciator appears well before the micrometer becomes unusable.

DIMENSIONS

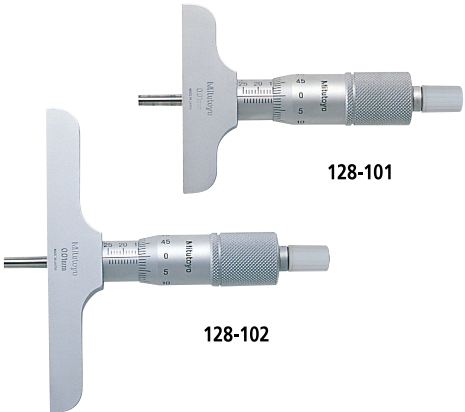


Depth Gage

A standard measuring tool of industry

Depth Micrometer SERIES 128

- Measuring rod diameter: 4 mm
- Measuring rod lock is attached.
- *Measuring rod is attached on the rear side of the micrometer.
- Carbide-tipped measuring rod model is available.
- Ratchet stop provides constant measuring force.



SPECIFICATIONS

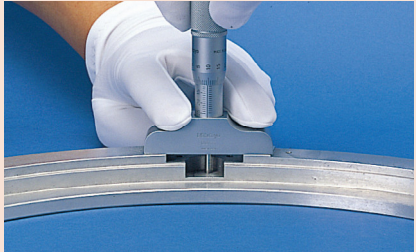
Metric			
Order No.	Range	Graduation	Base
128-101	0 - 25 mm	0.01 mm	63.5 x 16 mm
128-103*1			
128-102			101.6 x 16 mm
128-104*1			

*1 with carbide-tipped measuring rod

Inch			
Order No.	Range	Graduation	Base
128-105	0 - 1 in	0.001 in	2.5 in x 0.63 in
128-106			4 in x 0.63 in

Technical Data

Accuracy: $\pm 3 \mu\text{m}$ (± 0.00015 in)
Flatness of reference face:
1.3 μm (0.00005 in) for 63.5 mm (2.5 in) length base,
2 μm (0.00008 in) for 101.6 mm (4 in) length base
Flatness of measuring spindle face: 0.3 μm (0.000012 in)



Depth Micro Checker SERIES 515

- The Depth Micro Checker is designed to check and help set the range-end points of a depth micrometer.



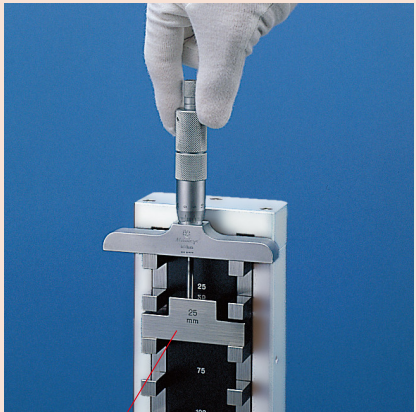
SPECIFICATIONS

Metric			
Order No.	Range	Block pitch accuracy	Anvil block accuracy
515-570	0 - 150 mm	$\pm(1+L/150) \mu\text{m}$, L = Length to check (mm)	$\pm 0.5 \mu\text{m}$
515-571	0 - 300 mm		

Inch			
Order No.	Range	Block pitch accuracy	Anvil block accuracy
515-575	0 - 6 in	$\pm(40+L/0.15) \mu\text{inch}$, L = Length to check (inch)	$\pm 20 \mu\text{inch}$



An inspection certificate is supplied as standard.
Refer to page X for details.



A 25 mm anvil block provides the reference surface for the depth micrometer rod

DIMENSIONS

