

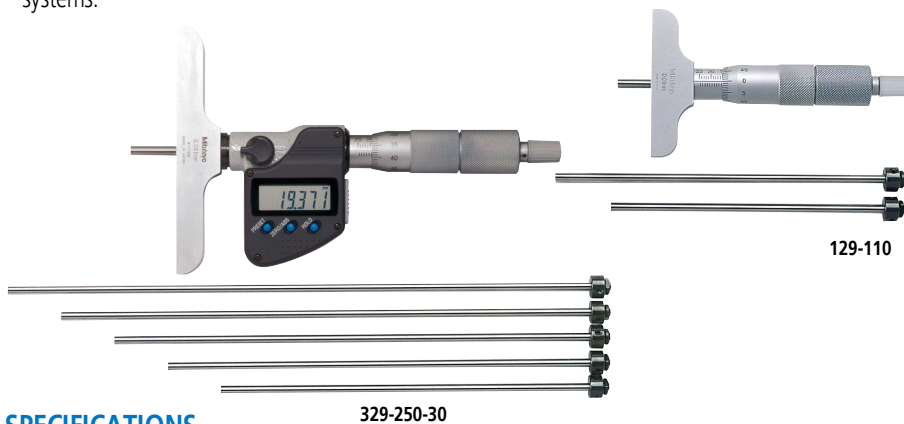
# Depth Gage

A standard measuring tool of industry

## Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

**MeasurLink<sup>1</sup> 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 (mm)	Resolution (mm)	Base (mm)	Spindle feed error (µm)	Flatness of reference face	Flatness of measuring rod face (µm)	No. of rods
Digimatic (LCD)							
329-250-30	0 - 150	0.001	101.6×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3	6
329-251-30	0 - 300						12

Inch / Metric							
Order No.	Range (in)	Resolution	Base (in)	Spindle feed error	Flatness of reference face	Flatness of measuring rod face	No. of rods
Digimatic (LCD)							
329-350-30	0 - 6	0.0005 in/0.001 mm	4×0.63	0.00015 in/ 3 µm	0.00005 in/1.3 µm for 63.5 mm (2.5 in) length base, 0.00008 in/2 µm for 101.6 mm (4 in) length base	0.000012 in/ 0.3 µm	6
329-351-30	0 - 12	0.0001 in/0.001 mm		12			

Metric												
Order No.	Range (mm)	Graduation (mm)	Base (mm)	Spindle feed error (µm)	Flatness of reference face	Flatness of measuring rod face (µm)	No. of rods					
Analog												
129-154	0 - 25	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3	1					
129-155			101.6×16									
129-109	0 - 50	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3		2				
129-110			101.6×16									
129-114	0 - 75	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3			3			
129-111			101.6×16									
129-115	0 - 100	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3				4		
129-112			101.6×16									
129-116	0 - 150	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3					6	
129-113			101.6×16									
129-152	0 - 300	0.01	63.5×16	3	1.3 µm for 63.5 mm length base, 2 µm for 101.6 mm length base	0.3						12
129-153			101.6×16									

Inch											
Order No.	Range (in)	Graduation (in)	Base (in)	Spindle feed error (in)	Flatness of reference face	Flatness of measuring rod face (in)	No. of rods				
Analog											
129-129	0 - 2	0.001	4×0.63	0.00015	0.00005 in for 2.5 in length base, 0.00008 in for 4 in length base	0.000012	2				
129-126	0 - 3		2.5×0.63								
129-130		0 - 4	0.001	4×0.63	0.00015	0.00005 in for 2.5 in length base, 0.00008 in for 4 in length base		0.000012	3		
129-127	2.5×0.63										
129-131	0 - 6	0.001	4×0.63	0.00015	0.00005 in for 2.5 in length base, 0.00008 in for 4 in length base	0.000012		4			
129-128			2.5×0.63								
129-132	0 - 12	0.001	4×0.63	0.00015	0.00005 in for 2.5 in length base, 0.00008 in for 4 in length base	0.000012				6	
129-149			2.5×0.63								
129-150	0 - 12	0.001	4×0.63	0.00015	0.00005 in for 2.5 in length base, 0.00008 in for 4 in length base	0.000012					12
129-150			4×0.63								

Note: For the function of Digimatic models 329-250-30, 329-251-30, 329-350-30, and 329-351-30, refer to page D-60. These models are not waterproof.

**MeasurLink<sup>1</sup> 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

- 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
- ±(2+R/75) µm 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  
\* Digimatic models
- Scale type: Electromagnetic induction absolute encoder
- Standard Accessories: **301336** Spanner  
**04GAA274** Spanner  
**202863** Hex-Spanner

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

For details, refer to page A-27.

- Connection cable  
**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)
- Connecting cables for **U-WAVE-T**  
**02AZD790B**: SPC cable with data button (160 mm)  
**02AZE140B**: SPC cable for foot switch

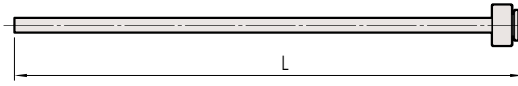
### Wireless Data Output **U-WAVE<sup>fit</sup>**

- **U-WAVE-TM: 264-622** (IP67 type)  
**264-623** (Buzzer type)
- **U-WAVE-TMB** Transmitter  
(Mitutoyo **Bluetooth® U-WAVE**)  
**264-626** (IP type)  
**264-627** (Buzzer type)  
Refer to page A-15 for details.
- Connecting unit for **U-WAVE-TM/TMB**  
**02AZF310** (IP67 type/buzzer type common specification)  
Refer to pages A-16 and A-18 for details.

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## Interchangeable rod (Optional Accessories)

(Check and adjust the origin point before measurement)



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

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

### 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.

#### Data output:

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

#### 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.

#### 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.

#### 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.

## DIMENSIONS

