

Depth Gage

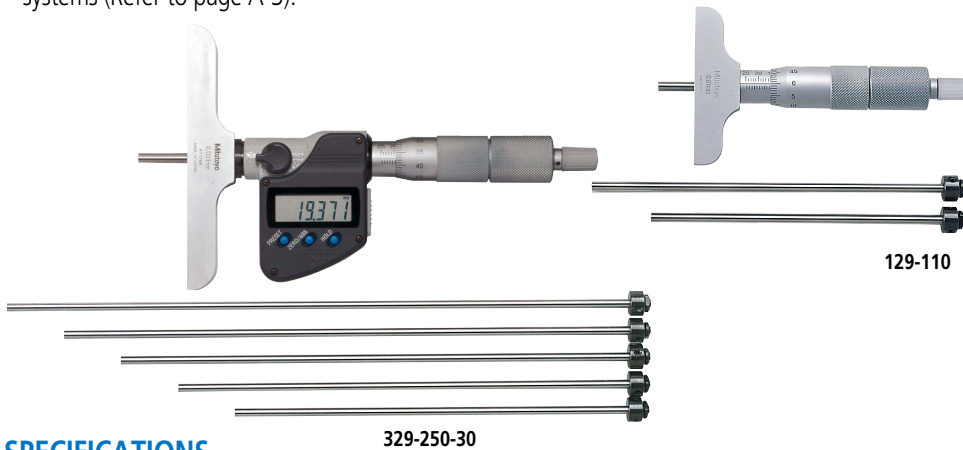
A standard measuring tool of industry

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 (Refer to page A-3).
- Measuring rod diameter: 4 mm
- With measuring rod clamp.
- Ratchet stop provides constant measuring force.



SPECIFICATIONS

Metric										
Order No.	Range (mm)	Resolution (mm)	Base (mm)	Spindle feed error (μm)	Flatness of reference surface (base) (μm)	Flatness of measuring face (rod) (μm)	Parallelism between reference face and measuring rod face (μm)	Zero point error of rods (μm)	No. of rods	
Digimatic (LCD)										
329-250-30	0 - 150	0.001	101.6x16	3	2	0.3	7	±4	6	
329-251-30	0 - 300								12	

Inch / Metric										
Order No.	Range (in)	Resolution	Base (in)	Spindle feed error	Flatness of reference surface(base) (in)	Flatness of measuring face (rod) (in)	Parallelism between reference face and measuring rod face (in)	Zero point error of rods (in)	No. of rods	
Digimatic (LCD)										
329-350-30	0 - 6	0.0005 in/0.001 mm	4x0.63	0.00015 in/ 3 μm	0.00008	0.000012	0.00035	±0.0002	6	
329-351-30	0 - 12								±0.0003	

Metric										
Order No.	Range (mm)	Graduation (mm)	Base (mm)	Spindle feed error (μm)	Flatness of reference surface (base) (μm)	Flatness of measuring face (rod) (μm)	Parallelism between reference face and measuring rod face (μm)	Zero point error of rods (μm)	No. of rods	
Analog										
129-154	0 - 25	0.01	63.5x16	3	1.3	0.3	5	3	1	
129-155			101.6x16		2		5	3	3	
129-109	0 - 50	0.01	63.5x16	3	1.3	0.3	5	3	2	
129-113			101.6x16		2		5	3	3	
129-110	0 - 75	0.01	63.5x16	3	1.3	0.3	6	3	3	
129-114			101.6x16		2		6	3	3	
129-111	0 - 100	0.01	63.5x16	3	1.3	0.3	6	4	4	
129-115			101.6x16		2		6	4	4	
129-112	0 - 150	0.01	63.5x16	3	1.3	0.3	7	4	6	
129-116			101.6x16		2		7	4	6	
129-152	0 - 300	0.01	63.5x16	3	1.3	0.3	10	6	12	
129-153			101.6x16		2		10	6	12	

Inch										
Order No.	Range (in)	Graduation (in)	Base (in)	Spindle feed error (in)	Flatness of reference surface(base) (in)	Flatness of measuring face (rod) (in)	Parallelism between reference face and measuring rod face (in)	Zero point error of rods (in)	No. of rods	
Analog										
129-129	0 - 2	0.001	4x0.63	0.00015	0.00008	0.000012	0.00025	0.00015	2	
129-126	0 - 3		2.5x0.63		0.00005		0.00030	0.00015	3	
129-130		0 - 4	4x0.63	0.00015	0.00008	0.000012	0.00030	0.00015	4	
129-127	2.5x0.63		0.00005		0.00030		0.00020	4		
129-131	0 - 6	4x0.63	0.00015	0.00008	0.000012	0.00030	0.00020	6		
129-128		2.5x0.63		0.00005		0.00035	0.00020	6		
129-132	0 - 12	4x0.63	0.00015	0.00008	0.000012	0.00035	0.00020	12		
129-149		2.5x0.63		0.00005		0.00050	0.00030	12		
129-150	0 - 12	4x0.63	0.00015	0.00008	0.000012	0.00050	0.00030	12		

Note: 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.

MeasurLink® ENABLED
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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink® (refer to page A-25 for details).

Technical Data

- 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-21.

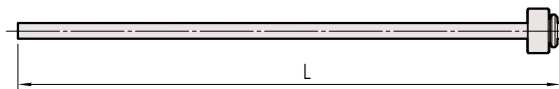
- Connection cable
05CZA662: SPC cable with data button (1 m)
05CZA663: SPC cable with data button (2 m)
- USB Input Tool Direct
06AFM380B: SPC cable for **USB-ITN-B** (2 m)
- Connecting cables for **U-WAVE-T**
02AZD790B: SPC cable with data button (160 mm)
02AZE140B: SPC cable for foot switch

Wireless Data Output **U-WAVE**™

- **U-WAVE-TM**: **264-622** (IP67 type)
264-623 (Buzzer type)
- **U-WAVE-TMB** Transmitter (**Mitutoyo Bluetooth® U-WAVE**)
264-626 (IP67 type)
264-627 (Buzzer type)
Refer to page A-10 for details.
- Connecting unit for **U-WAVE-TM/TMB**
02AZF310 (IP67 type/buzzer type common specification)
Refer to pages A-10 and A-12 for details.

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

