

Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

- Interchangeable rods provide a wide measuring range.
- Data output function allows integration into statistical process control and measurement systems. (Refer to page 09-3.)



SPECIFICATIONS

Metric									
Code 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						10	±6	12

Inch / Metric									
Code 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	0.00005 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	0.0001 in / 0.001 mm					0.0005	±0.0003	12

Metric													
Code 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	63.5×16	3	1.3	0.3	5	±3	1				
129-155			101.6×16		2				2				
129-109	0 - 50		63.5×16		1.3				2	6	±4	4	
129-113			101.6×16		2								6
129-110	0 - 75		63.5×16		1.3		7	±6	12				
129-114			101.6×16		2							7	
129-111	0 - 100		63.5×16		1.3					2	10	±6	12
129-115			101.6×16		2								
129-112	0 - 150		63.5×16		1.3		2	10	±6	12			
129-116			101.6×16		2								
129-152	0 - 300		63.5×16		1.3		2				10	±6	12
129-153			101.6×16		2								

Inch											
Code 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		3		
129-130			4x0.63		0.00008			±0.00020		4	
129-127	0 - 4		2.5x0.63		0.00005		6				
129-131			4x0.63		0.00008				12		
129-128	0 - 6		2.5x0.63		0.00005		0.00035			±0.00030	4
129-132			4x0.63		0.00008			6			
129-149	0 - 12		2.5x0.63		0.00005		0.00050		±0.00030	12	
129-150			4x0.63		0.00008			0.00030			±0.00020
129-331	0 - 4		2.4x0.63		0.00005		0.00035		6		
129-332	0 - 6										

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life*: Approx. 2.4 years under normal use
- * Digimatic models
- Position detection method: Electromagnetic induction ABSOLUTE encoder
- Standard Accessories: **301336** Spanner, **04GAA274** Spanner, **202863** Hex-Spanner

Functions of series 329

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.

Optional Accessories

Code No.	Type	Description
264-020	—	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
02AZD730G	IP67	U-WAVE-T
02AZD880G	Buzzer	U-WAVE-T
02AZE200	—	U-WAVE-T mounting bracket
02AZD790B	B	Connection cable for U-WAVE-T (160 mm)
02AZE140B	B	Connection cable for U-WAVE-T For foot switch
264-622	IP67	U-WAVE-TM
264-623	Buzzer	U-WAVE-TM
264-626	IP67	U-WAVE-TMB
264-627	Buzzer	U-WAVE-TMB
02AZF310	IP67	Connecting unit for U-WAVE-TM

Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

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	Code 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	Code 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	Code 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	Code 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

DIMENSIONS

