

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.

Data output*1:

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

*1: Only models with the data output function

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 ORIGIN (origin point setting) function and the ZERO (zero-setting) function to be locked to prevent these points being reset accidentally.

SPECIFICATIONS

Metric							
	Order No	Range	Resolution	Accuracy*	Parallelism	Constant-force device	Mass
with SPC data output	293-230-30	0 - 25 mm	0.001 mm	±1 μm	1 μm	With ratchet stop	270 g
	293-231-30	25 - 50 mm					330 g
	293-232-30	50 - 75 mm		2 μm	470 g		
	293-233-30	75 - 100 mm			625 g		
	293-250-30	100 - 125 mm		3 μm	600 g		
	293-251-30	125 - 150 mm			740 g		
	293-252-30	150 - 175 mm		±3 μm	800 g		
	293-253-30	175 - 200 mm			970 g		
	293-254-30	200 - 225 mm		4 μm	1100 g		
	293-255-30	225 - 250 mm			1270 g		
	293-256-30	250 - 275 mm		5 μm	1370 g		
	293-257-30	275 - 300 mm			1590 g		
	293-234-30	0 - 25 mm		±1 μm	1 μm	With ratchet thimble	280 g
	293-235-30	25 - 50 mm					340 g
293-236-30	50 - 75 mm	2 μm	480 g				
293-237-30	75 - 100 mm		635 g				
without SPC data output	293-240-30	0 - 25 mm	0.001 mm	±1 μm	1 μm	With ratchet stop	270 g
	293-241-30	25 - 50 mm					330 g
	293-242-30	50 - 75 mm		2 μm	470 g		
	293-243-30	75 - 100 mm			625 g		
	293-244-30	0 - 25 mm		±1 μm	1 μm	With ratchet thimble	280 g
	293-245-30	25 - 50 mm					340 g
	293-246-30	50 - 75 mm		2 μm	480 g		
	293-247-30	75 - 100 mm			635 g		

* Excluding quantizing error of ±1 count

Note: All digits of models over 125 mm (5 in) measuring range are presettable.

Inch/Metric							
	Order No	Range	Resolution	Accuracy*	Parallelism	Constant-force device	Mass
with SPC data output	293-330-30	0 - 1 in	0.00005 in /0.001 mm	±0.00005 in	0.00004 in	With ratchet stop	270 g
	293-331-30	1 - 2 in					330 g
	293-332-30	2 - 3 in		0.00008 in	470 g		
	293-333-30	3 - 4 in			625 g		
	293-350-30	4 - 5 in	0.0001 in /0.001 mm	±0.0001 in	0.00012 in		600 g
	293-351-30	5 - 6 in					740 g
	293-352-30	6 - 7 in		±0.00015 in	0.00016 in		800 g
	293-353-30	7 - 8 in					970 g
	293-354-30	8 - 9 in		±0.0002 in	0.0002 in		1100 g
	293-355-30	9 -10 in					1270 g
	293-356-30	10 - 11 in		1370 g			
	293-357-30	11 - 12 in					1590 g
	293-334-30	0 - 1 in	0.00005 in /0.001 mm	±0.00005 in	0.00004 in	With ratchet thimble	280 g
	293-335-30					With friction thimble	275 g
293-336-30	1 - 2 in					335 g	
without SPC data output	293-340-30	0 - 1 in	0.00005 in /0.001 mm	±0.00005 in	0.00004 in	With ratchet stop	270 g
	293-341-30	1 - 2 in					330 g
	293-342-30	2 - 3 in			0.00008 in		470 g
	293-343-30	3 - 4 in		±0.0001 in	0.00004 in	With ratchet thimble	625 g
	293-344-30	0 - 1 in					280 g
	293-345-30	1 - 2 in		±0.00005 in	0.00008 in		340 g
	293-346-30	2 - 3 in					480 g
	293-347-30	3 - 4 in		±0.0001 in		635 g	
	293-348-30	0 - 1 in		±0.00005 in	0.00004 in	With friction thimble	275 g

* Excluding quantizing error of ±1 count

Note: All digits of models over 125 mm (5 in) measuring range are presettable.

DIMENSIONS

