

MD Auto Unit

Automatic Measuring Device for Micrometers

- Patent(JP,US)
- Patent pending(DE,CN)

Automatic measurement is realized by controlling the rotation of the micrometer with a motor.



Stable measurement

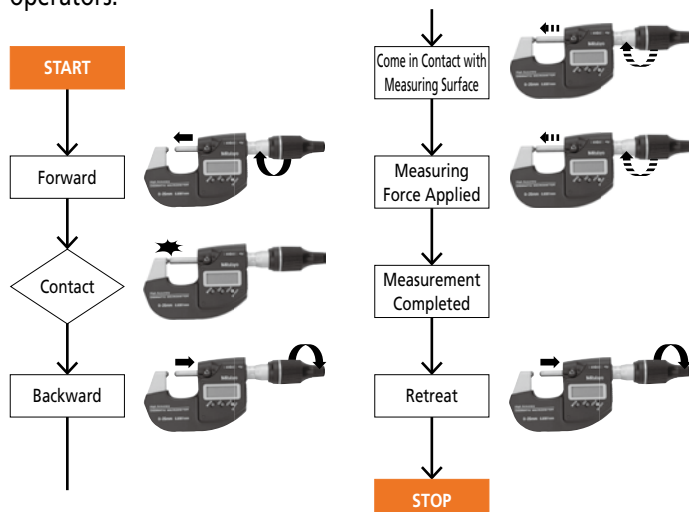
Human error eradicated

Results of 50 repeated measurements of the reference gauge	Mean value (mm)	Maximum value (μm)
Operator (veteran)	9.9997	0.3
Automatic measuring device	9.9993	0.2
Difference	0.0004	0.1

*Automatic measuring device vs. experienced operator

[Key Points for Stable Measurement]

Realization of stable measurement by quantifying the measurement behavior and sensation of skilled measurement operators.



Absolute measurement

A standard micrometer is used for the measuring unit.

Inline measurement

Can be externally controlled or embedded in equipment

Labour saving

Increased work efficiency through multiple use.
Can be linked to transfer systems (robots, etc.)

Quality improvement

Management through the use of measurement results, feedback to the machining process, etc.

Measuring unit specifications

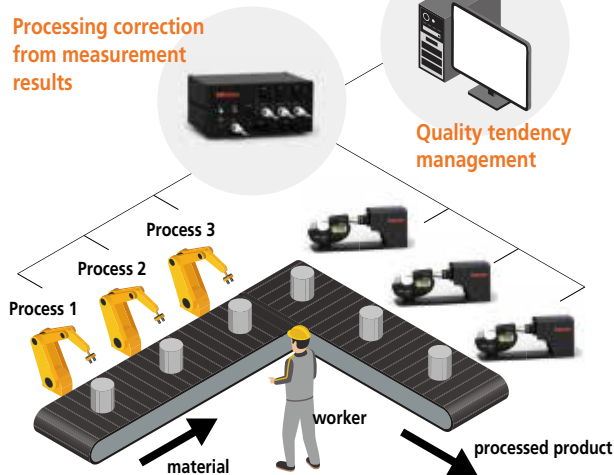
Micrometer	Code No.	High-accuracy Digimatic Micrometer SERIES 293		QuantuMike SERIES 293		IP65 Digimatic Micrometer SERIES 293	
		Metric	Inch/metric	Metric	Inch/metric	Metric	Inch/metric
		293-100-20	293-130-20	293-140-40	293-180-40	293-234-30	293-334-30
Range	0 - 25 mm	0 - 1 in	0 - 25 mm	0 - 1 in	0 - 25 mm	0 - 1 in	
Resolution	0.0001 mm	0.000005 in	0.001 mm	0.00005 in	0.001 mm	0.00005 in	
Spindle feed per rev.	0.5 mm		2.0 mm		0.5 mm		

Configuration



Image of introduction

[Inline measurement]



[Offline measurement]



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