QuantuMike

SERIES 293 — IP65 Coolant Proof Micrometer with 2mm/rev Spindle Feed

Speedy measurement is achieved thanks to 2mm of spindle feed for every thimble revolution!

Mitutoyo is proud to have reached its leading position in the micrometer market through a spirit of innovation, imagination and creating added value.

The QuantuMike brand of micrometer, inspired by this Mitutoyo Spirit, provides users with an excellent measuring experience with higher speed, guality and stability than ever before owing to the integration of sophisticated manufacturing and processing technologies.

Metric

Inch/Metric Range

*without SPC data output

Range 75 - 100mm

3" - 4"

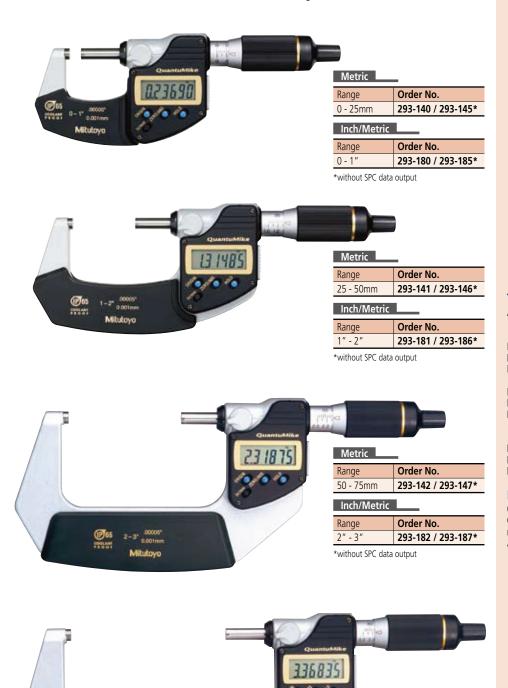
Order No.

Order No.

293-143 / 293-148*

293-183 / 293-188*





(Refer to page VIII for details.) TIFICATE OF INSPECTION /检查运输者 Digenation Merror MDE - 21064 2522-540 8 VAL 8 Meaning range / ROWER Second Sec. (B) 198 /Fill And /F.FS heade/strik +1 1.2 /68 FUE cia la

(Refer to page VIII for details.)

Certificate of inspection

Technical Data

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Accuracy:	±1µm/±.00005" or ±2µm/±.0001" (over
	75mm/3")
	(excluding quantizing error)
Resolution:	0.001mm, .00005"/0.001mm
Flatness:	0.3µm/.000012"
Parallelism:	1µm/.00004" for models up to 50mm/2"
	2µm/.00008" for models up to 100mm/4"
Measuring faces: Carbide	
Display:	LCD
Length standard: Electromagnetic rotary sensor	
-	*Patent pending (in Japan, USA, Europe, and
	China)
Battery:	SR44 (1 pc.), 938882
Battery life:	Approx. 1.2 years under normal use
Dust/Water p	protection levél: IP65

Functions

Origin-set, Zero-setting, Function lock, Automatic power ON/ OFF, Data hold, Data output, inch/mm conversion (inch/mm models) Alarm:

Low voltage, Counting value composition error



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Optional Accessories

05CZA662: SPC cable with data switch (1m) 05CZA663: SPC cable with data switch (2m) 06ADV380B: USB Input Tool Direct with data switch (2m) 02AZD790B: SPC cable for U-WAVE water-proof model (160mm)





Measurement data output function is available with a water-resistant connection cable.

Useful application of measurement data

A statistical process control system and a measurement network system can be established to share information regarding quality with a model equipped with the data output function.



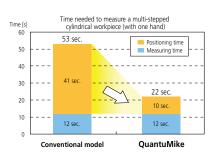
FEATURES

Speedy measurement

Faster measurement is achieved by using a coarser thread which feeds the spindle by 2mm per revolution of the thimble instead of the standard 0.5mm. This increase in thread lead has been made possible thanks to new high precision thread-cutting and test techniques.

Trials show that a reduction in positioning times of 60% and measuring times of 35% * can be obtained, compared with a conventional micrometer.

* According to Mitutoyo's comparison test data for measuring time on typical workpieces.





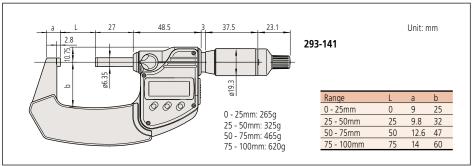
The time needed to measure 6 diameters on a workpiece, from the smallest to the largest with the micrometer held in one hand, was recorded for a conventional digital micrometer and for the QuantuMike

• Function lock

QuantuMike is equipped with a function lock feature to prevent the origin point being moved by mistake during measurement.



DIMENSIONS AND MASS



Repeatable measurement

The patented ratchet thimble mechanism* helps ensure repeatable results by transmitting microvibrations



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along the spindle to the contact face to provide a constant measuring force and encourage good contact with the workpiece. The ratchet works from the thimble as well as the speeder so it is always easy to use – even when making measurements one-handed. The sound of the ratchet provides the user with a sense of confidence and the speeder enables the rapid spindle feed needed when measuring widely different dimensions.

*Patent registered (in Japan, USA, China, Germany, UK, and France)



• Dust/water resistance with IP65 protection level

Excellent resistance against oil, water and dust enables this product to be used in machining situations that include splashing coolant fluid.



