

Non-rotating Spindle Type Digital Micrometer Quickmike

SMALL TOOL INSTRUMENTS
AND DATA MANAGEMENT

COOLANT PROOF™ IP65



1 revolution of thimble feeds the non-rotating spindle
10 mm!



Thimble **1** revolution



Quickmike's evolution to easier and speedier measurement!

Quickmike

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink



293-666-20



293-668-20



Quick measurement **20 times faster feed rate**

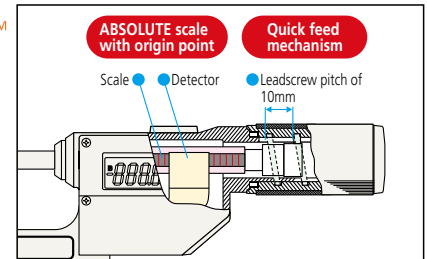
The Quickmike provides a speedy spindle feed of 10 mm per thimble rotation that enables widely differently sized features to be measured quickly. Also, 30 mm of wide measuring range, which is 5 mm longer than the standard type, allows measurement of multiple workpieces.



Absolute scale

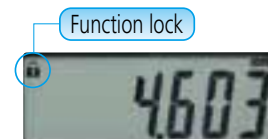
The ABS (absolute) linear scale eliminates the need for origin point setting at every power-on and achieves high reliability while being free from overspeed error.

ABSOLUTE™



Function locking prevents misoperation!

Function lock enhances usability by preventing the origin from being accidentally changed during measurement.



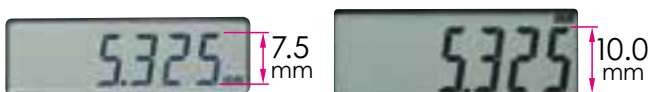
Minimum-value hold function ensures measurement value is retained!

The micrometer spindle can be retracted from the workpiece while the measurement value is retained in the display until cleared.



Visibility improved

Extra-large LCD digits enable easy reading of measurement values.



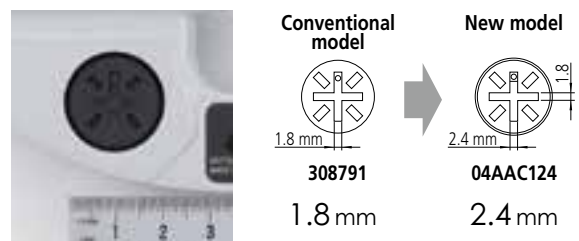
Extended battery life

Low-power electronics have extended the battery life to 5 years in normal use*2.

*2: Typical, assuming average frequency of use and normal applications.

Battery cap can be easily opened

The groove in the battery cap has been increased from 1.8 mm to 2.4 mm in width to enable the cap to be more easily opened.



Standard Micrometers

Specifications

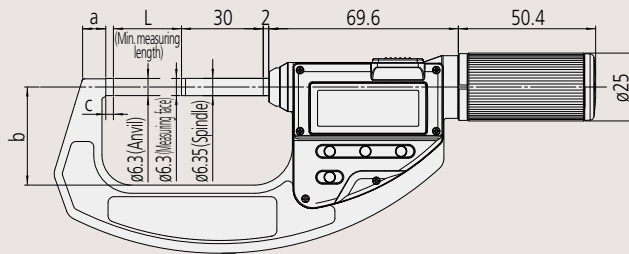
Metric							
Order No.	Range	MPE* J _{MPE}	Flatness	Parallelism	Constant-force device	Mass	Output function
293-666-20	0 - 30 mm	±2 μm	0.3 μm	2 μm	Yes	275 g	Yes
293-667-20	25 - 55 mm					340 g	
293-668-20	50 - 80 mm	±3 μm	3 μm	480 g			
293-669-20	75 - 105 mm			585 g			

* Maximum Permissible Error

Inch/Metric							
Order No.	Range	MPE* J _{MPE}	Flatness	Parallelism	Constant-force device	Mass	Output function
293-676-20	0 - 1.2 in	±0.0001 in	0.000012 in	0.00008 in	Yes	275 g	Yes
293-677-20	1 - 2.2 in					340 g	
293-678-20	2 - 3.2 in	±0.00015 in	0.00012 in	0.00012 in	480 g		
293-679-20	3 - 4.2 in				585 g		

* Maximum Permissible Error

Dimensions



Unit: mm

Measuring range	L	a	b	c
0 - 30 mm	0	6.2	25	2
25 - 55 mm	25	8.5	36	2.8
50 - 80 mm	50	10.3	47	2.8
75 - 105 mm	75	10.7	60	2.8

Special-purpose types

Crimp Height Micrometer



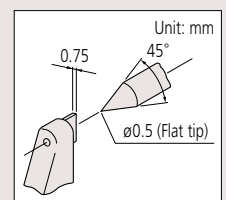
342-451-20

Features

- For crimp height measurement of a crimped terminal

Specifications

- Range: 0 - 15 mm (342-451-20)
- Maximum permissible error J_{MPE}: ±3 μm



Disk Micrometers



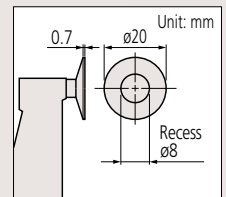
369-411-20

Features

- For root tangent length measurement of spur and helical gears
- Measurable range of gear pitch: 0.5 to 6 module

Specifications

- Ranges: 0 - 30 mm (369-411-20)
25 - 55 mm (369-412-20)
0 - 1.2 in (369-421-20)
1 - 2.2 in (369-422-20)
- Maximum permissible error J_{MPE}: ±4 μm / ±0.0002 in
- Parallelism: 4 μm / 0.0002 in
- Flatness: 1 μm / 0.00004 in



Blade Micrometers



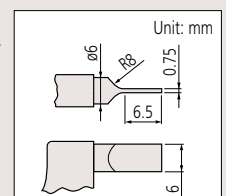
422-411-20

Features

- Blade type anvil and spindle for measuring narrow-groove diameters and similar features of round workpieces.

Specifications

- Ranges: 0 - 30 mm (422-411-20)
25 - 55 mm (422-412-20)
0 - 1.2 in (422-421-20)
1 - 2.2 in (422-422-20)
- Maximum permissible error J_{MPE}: ±3 μm / ±0.00015 in
- Parallelism: 3 μm / 0.00015 in



Common specifications

- Spindle feed: 10 mm per revolution
- Resolution: 0.001 mm
- Protection level: IP65 *3
- Power supply: Silver oxide button cell battery SR44
- Battery life: Approx. 5 years under normal use
- Output: Measurement Data
- Operating temperature: 5 to 40 °C
- Storage temperature: -10 to 60 °C
- Standard accessories: Silver oxide button cell battery SR44 (9038882), 1 pc. supplied for testing purposes only.

Setting standard (excluding 0 - 15/30 mm and 0 - 1.2 inch range models)

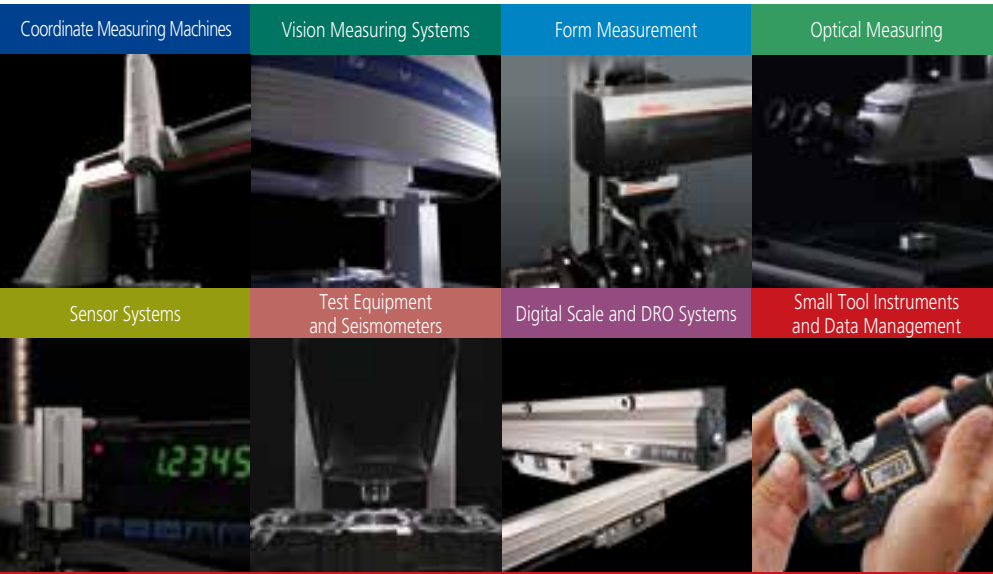
*3: Rust prevention treatment should be applied after use.

Common functions

- Preset (ABS measurement system)
- Zero-setting (INC measurement system)
- Hold
- Function lock
- Auto power off
- Measurement Data output
- Error alarm
- Minimum value hold

Optional accessories

- Connecting cable to DP-1VA LOGGER
1 m: **05CZA662**
2 m: **05CZA663**
Note: Water-proof type which is not compatible with standard Digimatic micrometers.
- Digimatic mini processor DP-1VA LOGGER: **264-505**
- Connection with PC (wired communication): USB Input Tool Direct
USB-ITN-B (2 m): 06AFM380B
- Connection with PC (wireless communication): Connecting cable to U-WAVE-T (160 mm): **02AZD790B**
Cable for foot switch: **02AZE140B**



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

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www.mitutoyo.co.th | www.mitutoyo.co.id
www.mitutoyo.com.vn | www.mitutoyo.com.ph

Mitutoyo

Mitutoyo Asia Pacific Pte. Ltd.
 Company Reg No. 197800892N
24 Kallang Avenue, Mitutoyo Building, Singapore 339415
Tel: (65) 6294 2211 Fax: (65) 6299 6666
E-mail: mapsg@mitutoyo.com.sg

Small Tools Authorized Distributor

Mitutoyo (Malaysia) Sdn. Bhd.
 Mah Sing Integrated Industrial Park,
 4, Jalan Utarid U5/14, Section U5,
 40150 Shah Alam, Selangor, Malaysia
 Tel: (60) 3-7845 9318
 Fax: (60) 3-7845 9346
 E-mail: mmsb@mitutoyo.com.my
Penang Branch
 Tel: (60) 4-641 1998
 Fax: (60) 4-641 2998
Johor Branch
 Tel: (60) 7-352 1626
 Fax: (60) 7-352 1628

Mitutoyo (Thailand) Co., Ltd.
 76/3-5, Chaengwattana Road, Kwaeng
 Anusaawaree, Khet Bangkaen,
 Bangkok 10220, Thailand
 Tel: (66) 2080 3500
 Fax: (66) 2521 6136
 E-mail: office@mitutoyo.co.th
Chonburi Branch
 Tel: (66) 2080 3563
 Fax: (66) 3834 5788
ACC Branch
 Tel: (66) 2080 3565

PT. Mitutoyo Indonesia
 Jalan Sriwijaya No.26
 Desa cibatu
 Kec. Cikarang Selatan
 Kab. Bekasi 17530, Indonesia
 Tel: (62) 21-2962 8600
 Fax: (62) 21-2962 8604
 E-mail: ptmi@mitutoyo.co.id

Mitutoyo Vietnam Co., Ltd.
 1st & 2nd Floor, MHDH Building,
 No. 60 Hoang Quoc Viet Road,
 Nghia Do Ward, Cau Giay District,
 Hanoi, Vietnam
 Tel: (84) 24-3768 8963
 Fax: (84) 24-3768 8960
 E-mail: mvc@mitutoyo.com.vn
Ho Chi Minh City Branch
 Tel: (84) 28-3840 3489
 Fax: (84) 28-3840 3498
Hai Phong City Branch
 Tel: (84)22-5398 9909

Mitutoyo Philippines, Inc.
 Unit 1B & 2B LTI,
 Administration Building 1,
 Annex 1, North Main Avenue,
 Laguna Technopark, Biñan,
 Laguna 4024, Philippines
 Tel: (63) 49-544 0272
 Fax: (63) 49-544 0272
 E-mail: mpi@mitutoyo.com.ph