Micrometer

Blade Micrometers
SERIES 422 — Non-rotating Spindle Type

- The anvil and the spindle have a blade for measuring the groove diameter of shafts, keyways and other hard-to-reach areas.
- Carbide-tipped measuring faces are available.

- Non-rotating spindle type.
- Equipped with Ratchet Stop for constant measuring force.

Digimatic
422-230-30

Quickmike type
422-411-20

MeasurLink® ENABLED
Data Management Software by Mitutoyo

U-WAVE fit

ABSOLUTE™

IP 65

TÜVRheinland CERTIFIED
ID 0217010446

Dust- and Water-Protected
www.tuv.com

Applicable models:
series 422 Quickmike type

Measurement example

Type and dimensions

Type A	Type B
ø6 R8 0.75 6.5 6	ø6 R8 0.75 0.4 3 6.5 6
Unit: mm	Unit: mm
Type C (carbide-tipped)	Type D (carbide-tipped)
60° ø6 0.75 7 11 6	60° ø6 0.4 4 8 6
Unit: mm	Unit: mm

SPECIFICATIONS

Metric

Code No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (µm)	Parallelism (µm)	Remark
Digimatic					
422-230-30	0 - 25				
422-231-30	25 - 50		±3	3	
422-232-30	50 - 75				Type A
422-233-30	75 - 100	0.001	±4	4	
422-260-30	0 - 25				Type B
422-261-30	25 - 50		±3	3	
422-270-30	0 - 25				Type C
422-271-30					Type D

Inch / Metric

Code No.	Range (in)	Resolution	Maximum permissible error J_{MPE} (in)	Parallelism (in)	Remark
Digimatic					
422-330-30	0 - 1				
422-331-30	1 - 2		±0.00015	0.00015	
422-332-30	2 - 3				Type A
422-333-30	3 - 4	0.00005 in/ 0.001 mm	±0.0002	0.0002	
422-360-30	0 - 1				Type B
422-361-30	1 - 2		±0.00015	0.00015	
422-370-30	0 - 1				Type C
422-371-30					Type D

Metric — Quickmike type

Code No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (µm)	Parallelism (µm)	Remark
Digimatic					
422-411-20	0 - 30	0.001	±3	3	Type A
422-412-20	25 - 55				

Inch / Metric — Quickmike type

Code No.	Range (in)	Resolution	Maximum permissible error J_{MPE} (in)	Parallelism (in)	Remark
Digimatic					
422-421-20	0 - 1.2	0.00005 in/ 0.001 mm	±0.00015	0.00015	Type A
422-422-20	1 - 2.2				

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life: Approx. 2.4 years under normal use (for **422-2XX**, **3XX**)
  Approx. 5 years under normal use (for **422-4XX**)
- Position detection method: Electromagnetic rotary sensor (for **422-2XX**, **3XX**)
  Electrostatic capacity absolute sensor (for **422-4XX**)
- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm/0 to 30 mm (0 to 1 in/0 to 1.2 in) models), Spanner (**301336**), 1 pc. (for **422-2XX**, **3XX**)
- Note 1: For functional details, refer to page 02-7. Please note that these models are not water-proof.
- Note 2: A heat shield is provided with Digimatic models as standard.
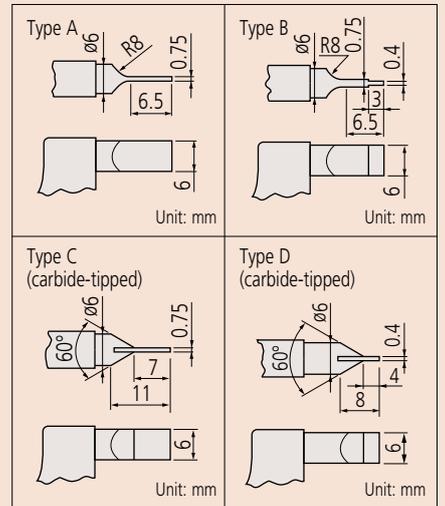
Optional Accessories

Code No.	Type	Description
05CZA662	B	Connection cable (1 m)
05CZA663	B	Connection cable (2 m)
06AFM380B	B	USB Input Tool Direct (2 m)
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/TMB***

* Only **series 422** (except for Quickmike type) can be attached.