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

SPECIFICATIONS

Metric

Code No.	Range (mm)	Resolution (mm)	Maximum permissible error J_{MPE} (µm)	Parallelism (µm)	Remark
Digimatic					
422-230-30	0 - 25	0.001	±3	3	Type A
422-231-30	25 - 50				
422-232-30	50 - 75				
422-233-30	75 - 100		±4	4	
422-260-30	0 - 25		±3	3	Type B
422-261-30	25 - 50				
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	0.00005 in/ 0.001 mm	±0.00015	0.00015	Type A
422-331-30	1 - 2				
422-332-30	2 - 3				
422-333-30	3 - 4		±0.0002	0.0002	
422-360-30	0 - 1		±0.00015	0.00015	Type B
422-361-30	1 - 2				
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.

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U-WAVE fit

ABSOLUTE™

IP65

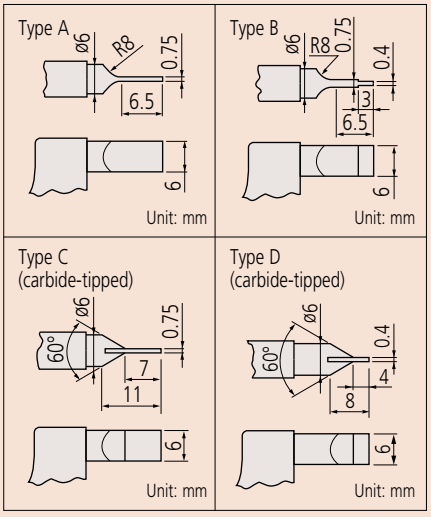
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Applicable models:
series 422 Quickmike type

Measurement example



Type and dimensions



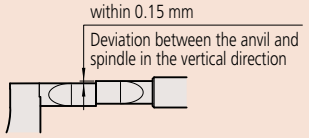
Optional Accessories

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.

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Deviation between the anvil and spindle in the vertical direction

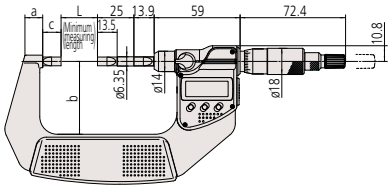


Deviation of 0.15 mm or less* is guaranteed between the anvil and spindle in the vertical direction.

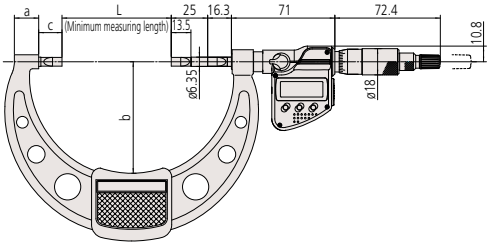
* When the measuring range is 0 to 25 mm

DIMENSIONS

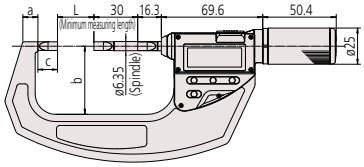
Digimatic models up to 50 mm measuring range



Digimatic models over 50 mm to 100 mm measuring range Unit: mm



Quickmike type



Code No.	L	a	b	C
422-230-30	0	11	31	12.5
422-231-30	25	12.2	50	12.6
422-232-30	50	14.6	57	13
422-233-30	75	16.7	76	16
422-260-30	0	11	31	12.5
422-261-30	25	12.2	50	12.6
422-270-30	0	11	31	12.5
422-271-30				
422-411-20		8.5	36	13.5
422-412-20	25	10.3	47	

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