## Micrometer

The origin of Mitutoyo's trustworthy brand of small tool instruments

## Blade Micrometers <br> SERIES 422, 122 - Non-Rotating Spindle Type

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

MeasurLink ${ }^{\circ}$ ENABLED
Data Management Software by Mitutoyo


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


Excluding quantizing error of $\pm 1$ count

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## Technical Data

Parallelism
$3 \mu \mathrm{~m}$ for models up to 75 mm
0.00015 in for models up to 3 in
(3+R/100) um for models over 75 mm
0.0002 in for models over 3 in
$R=$ max. range (mm)
fraction rounded up
Type and Dimensions


## Battery for Series 422

SR44 (1 pc), 938882, for initial operational checks (standard accessory)
Battery life: Approx. 2.4 years under normal use (for series 422-2XX, 3XX)
Approx. 5 year under normal use (for series 422-4XX)
Approx. 18,000 hours in continuous use
Length standard: Electromagnetic rotary sensor
(for series 422-2XX, 3XX)
Electrostatic capacity absolute sensor
(for series 422-4XX)
Standard accessories: Reference bar, 1 pc
(except for measuring range $0-25 \mathrm{~mm} / 0-30 \mathrm{~mm}$
(0-1 in/0-1.2 in) models)
Spanner (301336), 1 pc (for series 122-1XX, 422-2XX, 3XX)

## Optional Accessories

Connecting cables for digital models

## 1 m: 05CZA662

2 m: 05CZA663
USB Input Tool Direct
USB-ITN-B (2 m): 06AFM380B
Connecting for 422-230-30 to
422-271-30,422-330-30 to 422-371-30
Wireless data output U-WAVE/fit
U-WAVE-TM 264-622 IP67 type
264-623 Buzzer type
Connecting unit for U-WAVE-TM
02AZF310 (IP67 type)
Note: cannot be used with Quickmike type
Refer to page A-15 for details


## DIMENSIONS

Digital models up to 50 mm measuring range
Unit: mm

## Quickmike

Provides a speedy spindle feed of 10 mm per thimble rotation which enables widely differently sized features to be measured quickly.
Deviation Between the Anvil and Spindle in the Vertical Direction



Digital models over 75 mm measuring range


## Quickmike type

Analog models over 50 mm measuring range


| Order No. | L | a |  | 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 |  | 11 | 31 | 12.5 |
| 422-271-30 | 0 | 11 | 31 | 12.5 |
| 122-101 |  | 7.8 | 32 | 15 |
| 122-102 | 25 | 12.2 | 49 |  |
| 122-103 | 50 | 14.6 | 60 | 14.5 |
| 122-104 | 75 | 16.7 | 79 | 17.5 |
| 122-105 | 100 | 18.8 | 94 | 17.9 |
| 122-106 | 125 | 19.1 | 106 | 18.3 |
| 122-107 | 150 | 18.2 | 118 | 18.5 |
| 122-108 | 175 | 16.8 | 130 | 18.9 |
| 122-109 | 200 | 18 | 143 | 17.7 |
| 122-110 | 225 |  | 156 | 18.7 |
| 122-115 | 250 |  | 169 |  |
| 112-116 | 275 |  | 181 |  |
| 422-411 | 0 | 8.5 | 36 | 13.5 |
| 422-412 | 25 | 10.3 | 47 |  |

