

Inside Micrometers

Tubular Inside Micrometers  
SERIES 137, 337 — Extension-Rod Type

- Wide range of inside measurements possible by combining Extension Rods and anvils with the micrometer head.
- An optional inside-length standard is required for accurately setting the micrometer before measurement.
- Two types of measuring faces are available: with or without carbide tip. (The SERIES 337 is only available with carbide tip)



337-301

SPECIFICATIONS

| Metric   |            |                 |                          |                             |                |                                |                   |
|----------|------------|-----------------|--------------------------|-----------------------------|----------------|--------------------------------|-------------------|
| Code No. | Range (mm) | Resolution (mm) | Spindle feed error* (μm) | Micrometer head stroke (mm) | Extension rods |                                | Display unit (mm) |
|          |            |                 |                          |                             | Qty            | Size (mm)                      |                   |
| 337-101  | 200 - 225  | 0.001           | 3                        | 25                          | —              | —                              | 200 - 225         |
| 337-301  | 200 - 1000 |                 |                          |                             | 6              | 25, 50, 100 (2 pcs.), 200, 300 |                   |
| 337-302  | 200 - 1500 |                 |                          |                             | 7              | 25, 50, 100, 200, 300 (3 pcs.) |                   |

| Inch / Metric |            |                        |                          |                             |                |                         |                   |
|---------------|------------|------------------------|--------------------------|-----------------------------|----------------|-------------------------|-------------------|
| Code No.      | Range (in) | Resolution             | Spindle feed error* (in) | Micrometer head stroke (in) | Extension rods |                         | Display unit (in) |
|               |            |                        |                          |                             | Qty            | Size (in)               |                   |
| 337-102       | 8 - 9      | 0.0001 in/<br>0.001 mm | 0.00015                  | 1                           | —              | —                       | 8 - 9             |
| 337-303       | 8 - 40     |                        |                          |                             | 6              | 1, 2, 4 (2 pcs.), 8, 12 |                   |
| 337-304       | 8 - 60     |                        |                          |                             | 7              | 1, 2, 4, 8, 12 (3 pcs.) |                   |

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
  - Battery life: Approx. 1.2 years under normal use
  - Position detection method: Electromagnetic induction-type rotary encoder
- \* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the measuring range of the micrometer head

MeasurLink<sup>®</sup> ENABLED  
Data Management Software by Mitutoyo



Applicable models:  
SERIES 337



Dust- and  
Water-  
Protected  
www.tuv.com  
ID 0000021606

Measurement example



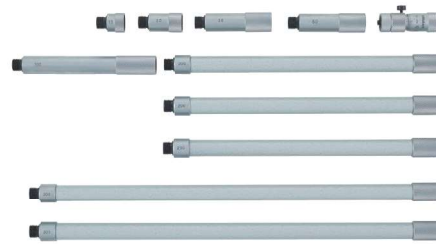
Functions

- Zero-setting
- Origin restoration
- Data hold
- 2-point Preset
- Function lock
- Automatic power ON/OFF
- Error alarm
- Data output

Optional Accessories

| Code No.  | Type   | description                                                                    |
|-----------|--------|--------------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion Type<br><b>IT-020U</b> |
| 05CZA662  | B      | Connection cable (1 m)                                                         |
| 05CZA663  | B      | Connection cable (2 m)                                                         |
| 06AFM380B | B      | USB Input Tool Direct (2 m)                                                    |
| 02AZD730* | IP67   | <b>U-WAVE-T</b>                                                                |
| 02AZD880* | Buzzer | <b>U-WAVE-T</b>                                                                |
| 02AZD790B | B      | Connection cable for<br><b>U-WAVE-T</b> (160 mm)                               |
| 02AZE140B | B      | Connection cable for<br><b>U-WAVE-T</b><br>For foot switch                     |

\* Add suffix to Code No.; **G** for Asia, Europe and the Americas,  
**H** for Brazil and **J** for Korea.



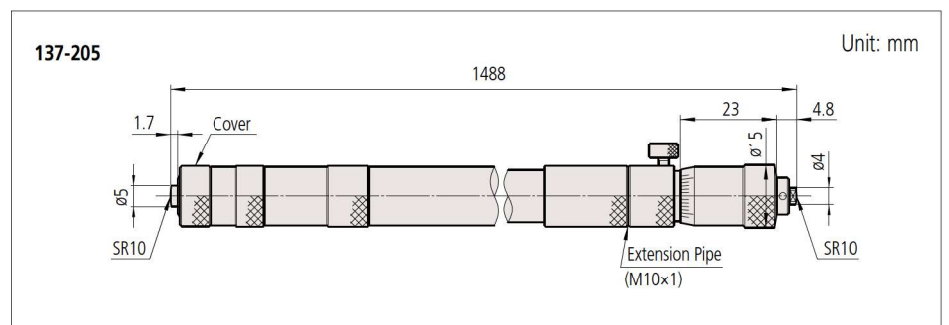
137-205

## SPECIFICATIONS

| Metric                      |            |                 |                          |                             |                |                                                      |                |
|-----------------------------|------------|-----------------|--------------------------|-----------------------------|----------------|------------------------------------------------------|----------------|
| Code No.                    | Range (mm) | Graduation (mm) | Spindle feed error* (μm) | Micrometer head stroke (mm) | Extension rods |                                                      | Main unit (mm) |
|                             |            |                 |                          |                             | Qty            | Size (mm)                                            |                |
| 137-201                     | 50 - 150   | 0.01            | 3                        | 13                          | 3              | 13, 25, 50                                           | 50 - 63        |
| 137-202                     | 50 - 300   |                 |                          |                             | 5              | 13, 25, 50 (2 pcs.), 100                             |                |
| 137-203                     | 50 - 500   |                 |                          |                             | 6              | 13, 25, 50 (2 pcs.), 100, 200                        |                |
| 137-204                     | 50 - 1000  |                 |                          |                             | 8              | 13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300          |                |
| 137-205                     | 50 - 1500  |                 |                          |                             | 10             | 13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.) |                |
| With carbide measuring face |            |                 |                          |                             |                |                                                      |                |
| 137-206                     | 50 - 150   | 0.01            | 3                        | 13                          | 3              | 13, 25, 50                                           | 50 - 63        |
| 137-207                     | 50 - 300   |                 |                          |                             | 5              | 13, 25, 50 (2 pcs.), 100                             |                |
| 137-208                     | 50 - 500   |                 |                          |                             | 6              | 13, 25, 50 (2 pcs.), 100, 200                        |                |
| 137-209                     | 50 - 1000  |                 |                          |                             | 8              | 13, 25, 50 (2 pcs.), 100, 200 (2 pcs.), 300          |                |
| 137-210                     | 50 - 1500  |                 |                          |                             | 10             | 13, 25, 50 (2 pcs.), 100, 200 (3 pcs.), 300 (2 pcs.) |                |
| Inch                        |            |                 |                          |                             |                |                                                      |                |
| Code No.                    | Range (in) | Graduation (in) | Spindle feed error* (in) | Micrometer head stroke (in) | Extension rods |                                                      | Main unit (in) |
|                             |            |                 |                          |                             | Qty            | Size (in)                                            |                |
| 137-211                     | 2 - 6      | 0.001           | 0.00015                  | 0.5                         | 3              | 0.5, 1, 2                                            | 2 - 2.5        |
| 137-212                     | 2 - 12     |                 |                          |                             | 5              | 0.5, 1, 2 (2 pcs.), 4                                |                |
| 137-213                     | 2 - 20     |                 |                          |                             | 6              | 0.5, 1, 2 (2 pcs.), 4, 8                             |                |
| 137-214                     | 2 - 40     |                 |                          |                             | 8              | 0.5, 1, 2 (2 pcs.), 4, 8 (2 pcs.), 12                |                |
| 137-215                     | 2 - 60     |                 |                          |                             | 10             | 0.5, 1, 2 (2 pcs.), 4, 8 (3 pcs.), 12 (2 pcs.)       |                |
| With carbide measuring face |            |                 |                          |                             |                |                                                      |                |
| 137-216                     | 2 - 6      | 0.001           | 0.00015                  | 0.5                         | 3              | 0.5, 1, 2                                            | 2 - 2.5        |
| 137-217                     | 2 - 12     |                 |                          |                             | 5              | 0.5, 1, 2 (2 pcs.), 4                                |                |
| 137-218                     | 2 - 20     |                 |                          |                             | 6              | 0.5, 1, 2 (2 pcs.), 4, 8                             |                |
| 137-219                     | 2 - 40     |                 |                          |                             | 8              | 0.5, 1, 2 (2 pcs.), 4, 8 (2 pcs.), 12                |                |
| 137-220                     | 2 - 60     |                 |                          |                             | 10             | 0.5, 1, 2 (2 pcs.), 4, 8 (3 pcs.), 12 (2 pcs.)       |                |

\* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the measuring range of the micrometer head

## DIMENSIONS



Inside Micrometers

Tubular Inside Micrometers  
SERIES 137 — Extension-Rod Type (main unit)

- Micrometer head for Extension-Rod Type inside micrometer.
- Reference point setting is necessary.
- An optional inside-length standard, such as Gauge Block Accessory Set or a setting ring, is required for accurately setting the micrometer before measurement. (refer to pages 01-19 to 01-22 and 08-52 for details)



137-011

SPECIFICATIONS

| Metric                 |            |                          |                 |                             |
|------------------------|------------|--------------------------|-----------------|-----------------------------|
| Code No.               | Range (mm) | Spindle feed error* (μm) | Graduation (mm) | Micrometer head stroke (mm) |
| 137-011                | 50 - 63    | 3                        | 0.01            | 13                          |
| Carbide-tipped 137-013 |            |                          |                 |                             |

| Inch                   |            |                          |                 |                             |
|------------------------|------------|--------------------------|-----------------|-----------------------------|
| Code No.               | Range (in) | Spindle feed error* (in) | Graduation (in) | Micrometer head stroke (in) |
| 137-012                | 2 - 2.5    | 0.00015                  | 0.001           | 0.5                         |
| Carbide-tipped 137-014 |            |                          |                 |                             |

\* "Spindle feed error" refers to the difference between the maximum and minimum indication error values within the specification range of the micrometer head

DIMENSIONS

