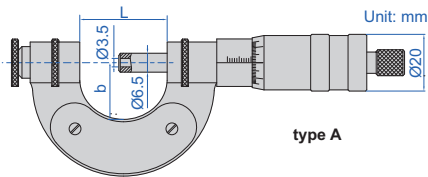


EXTERNAL SCREW THREAD MICROMETERS

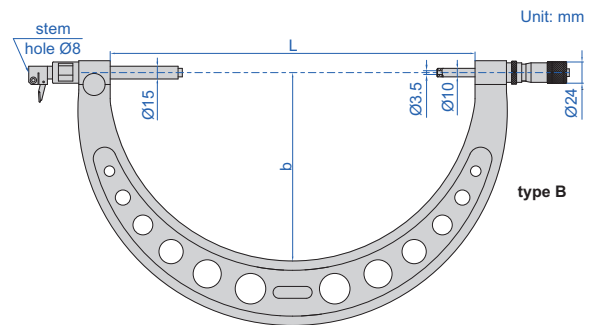
INSIZE PLUS
MADE IN EUROPE



3680-50



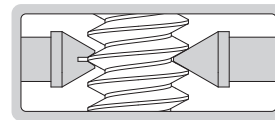
3680-4001



- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Optional accessory: setting standards (code **7384**), external tread tips (code **7390**), dial/digital indicators (only for type B)

Type A (ratchet stop) (mm)

| Code | Range | Accuracy | L | b |
|------------|-----------|----------|-----|-----|
| 3680-25 * | 0-25mm | 4µm | 37 | 24 |
| 3680-50 * | 25-50mm | 4µm | 62 | 34 |
| 3680-75 * | 50-75mm | 4µm | 87 | 46 |
| 3680-100 * | 75-100mm | 4µm | 112 | 60 |
| 3680-125 * | 100-125mm | 5µm | 139 | 72 |
| 3680-150 * | 125-150mm | 5µm | 164 | 85 |
| 3680-200 * | 150-200mm | 7µm | 215 | 110 |
| 3680-250 * | 200-250mm | 7µm | 264 | 135 |
| 3680-300 * | 250-300mm | 7µm | 315 | 160 |



Type B (without ratchet stop) (mm)

| Code | Range | Left anvil retracting stroke | Micrometer head accuracy | L | b |
|--------------|-------------|------------------------------|--------------------------|------|------|
| 3680-3001 * | 200-300mm | 2.5mm | 6µm | 320 | 165 |
| 3680-4001 * | 300-400mm | 2.5mm | 7µm | 430 | 220 |
| 3680-5001 * | 400-500mm | 2.5mm | 8µm | 530 | 273 |
| 3680-6001 * | 500-600mm | 2.5mm | 9µm | 630 | 323 |
| 3680-7001 * | 600-700mm | 2.5mm | 9µm | 730 | 378 |
| 3680-8001 * | 700-800mm | 2.5mm | 9µm | 830 | 423 |
| 3680-9001 * | 800-900mm | 2.5mm | 10µm | 930 | 473 |
| 3680-10001 * | 900-1000mm | 2.5mm | 10µm | 1030 | 520 |
| 3680-4002 * | 200-400mm | 2.5mm | 7µm | 430 | 220 |
| 3680-6002 * | 400-600mm | 2.5mm | 9µm | 630 | 323 |
| 3680-8002 * | 600-800mm | 2.5mm | 9µm | 830 | 423 |
| 3680-10002 * | 800-1000mm | 2.5mm | 10µm | 1030 | 520 |
| 3680-12002 * | 1000-1200mm | 2.5mm | 11µm | 1230 | 635 |
| 3680-14002 * | 1200-1400mm | 2.5mm | 12µm | 1430 | 735 |
| 3680-16002 * | 1400-1600mm | 2.5mm | 18µm | 1660 | 840 |
| 3680-18002 * | 1600-1800mm | 2.5mm | 20µm | 1870 | 940 |
| 3680-20002 * | 1800-2000mm | 2.5mm | 22µm | 2075 | 1055 |

* Supplied with manufacturer inspection certificate

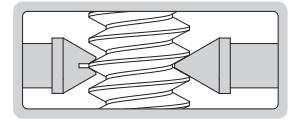
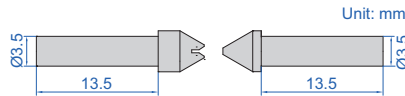
MEASURING TIPS FOR EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

- Supplied in pair
- Made of hardened steel
- Suitable for 3680 series micrometers



7390-T104



60° thread angle

| Code | Pitch |
|-----------|---------------------|
| 7390-T101 | 0.35-0.5mm/72-48TPI |
| 7390-T102 | 0.6-0.8mm/44-32TPI |
| 7390-T103 | 0.9-1.25mm/28-18TPI |
| 7390-T104 | 1.5-2mm/16-11TPI |
| 7390-T105 | 2.5-3.5mm/10-7TPI |
| 7390-T106 | 4-6mm/6-4TPI |

55° thread angle

| Code | Pitch |
|-----------|----------|
| 7390-T201 | 60-48TPI |
| 7390-T202 | 40-32TPI |
| 7390-T203 | 28-22TPI |
| 7390-T204 | 20-16TPI |
| 7390-T205 | 14-11TPI |
| 7390-T206 | 10-7TPI |
| 7390-T207 | 6-4TPI |

30° thread angle

| Code | Pitch |
|-----------|---------|
| 7390-T301 | 1.5mm |
| 7390-T302 | 2mm |
| 7390-T303 | 3mm |
| 7390-T304 | 4mm |
| 7390-T305 | 5-6mm |
| 7390-T306 | 7-8mm |
| 7390-T307 | 9-10mm |
| 7390-T308 | 12-14mm |

SETTING STANDARDS FOR EXTERNAL SCREW THREAD MICROMETERS

INSIZE PLUS
MADE IN EUROPE

ATTENTION: WHEN PITCH <0.4MM OR >63.5TPI, SETTING STANDARDS CANNOT BE USED TO SET ZERO, A CALIBRATED WORK PIECE CAN BE USED INSTEAD

TIPS FOR TRAPEZOIDAL, ACME THREAD ARE ALSO AVAILABLE



7384-A100



- Made of hardened steel
- Deviation (difference between the ordered size and the size marked on the setting standard when supplied): $\pm 20\mu\text{m}$
For example, the ordered size is 25mm, the size marked on the setting standard when supplied may be 25.015mm

60° thread angle

| Code | L | Ød | Accuracy (mm) |
|-----------|-----|-----|----------------------|
| 7384-A25 | 25 | 7.8 | $\pm 2.5\mu\text{m}$ |
| 7384-A50 | 50 | 7.8 | $\pm 3\mu\text{m}$ |
| 7384-A75 | 75 | 7.8 | $\pm 3.5\mu\text{m}$ |
| 7384-A100 | 100 | 7.8 | $\pm 4\mu\text{m}$ |
| 7384-A125 | 125 | 7.8 | $\pm 4.5\mu\text{m}$ |
| 7384-A150 | 150 | 7.8 | $\pm 5\mu\text{m}$ |
| 7384-A175 | 175 | 7.8 | $\pm 5.5\mu\text{m}$ |
| 7384-A200 | 200 | 7.8 | $\pm 6\mu\text{m}$ |
| 7384-A225 | 225 | 10 | $\pm 6.5\mu\text{m}$ |
| 7384-A250 | 250 | 10 | $\pm 7\mu\text{m}$ |
| 7384-A275 | 275 | 10 | $\pm 7.5\mu\text{m}$ |
| 7384-A300 | 300 | 10 | $\pm 8\mu\text{m}$ |

55° thread angle

| Code | L | Ød | Accuracy (mm) |
|-----------|-----|-----|----------------------|
| 7384-B25 | 25 | 7.8 | $\pm 2.5\mu\text{m}$ |
| 7384-B50 | 50 | 7.8 | $\pm 3\mu\text{m}$ |
| 7384-B75 | 75 | 7.8 | $\pm 3.5\mu\text{m}$ |
| 7384-B100 | 100 | 7.8 | $\pm 4\mu\text{m}$ |
| 7384-B125 | 125 | 7.8 | $\pm 4.5\mu\text{m}$ |
| 7384-B150 | 150 | 7.8 | $\pm 5\mu\text{m}$ |
| 7384-B175 | 175 | 7.8 | $\pm 5.5\mu\text{m}$ |
| 7384-B200 | 200 | 7.8 | $\pm 6\mu\text{m}$ |
| 7384-B225 | 225 | 10 | $\pm 6.5\mu\text{m}$ |
| 7384-B250 | 250 | 10 | $\pm 7\mu\text{m}$ |
| 7384-B275 | 275 | 10 | $\pm 7.5\mu\text{m}$ |
| 7384-B300 | 300 | 10 | $\pm 8\mu\text{m}$ |

SCREW THREAD MICROMETERS

NON-ROTATING SPINDLE

6

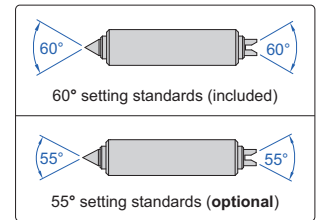
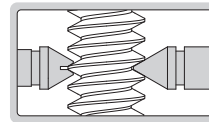


3281-25A
(measuring tips are optional)



3281-S25
(measuring tips are included)

- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm)
- Optional accessory: 55° setting standards



Measuring tips are optional (mm)

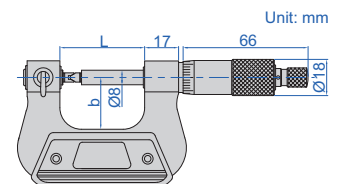
| Code | Range | L | b | 55° setting standard (optional) |
|-----------|-----------|-------|------|---------------------------------|
| 3281-25A | 0-25mm | 42 | 26 | — |
| 3281-50A | 25-50mm | 67 | 38 | 3281-SP1 |
| 3281-75A | 50-75mm | 92 | 50 | 3281-SP2 |
| 3281-100A | 75-100mm | 117.6 | 62 | 3281-SP3 |
| 3281-125A | 100-125mm | 143 | 70 | 3281-SP4 |
| 3281-150A | 125-150mm | 168.2 | 82 | 3281-SP5 |
| 3281-175A | 150-175mm | 192 | 94.5 | 3281-SP6 |
| 3281-200A | 175-200mm | 217 | 107 | 3281-SP7 |
| 3281-225A | 200-225mm | 242 | 130 | 3281-SP8 |
| 3281-250A | 225-250mm | 267 | 142 | 3281-SP9 |
| 3281-275A | 250-275mm | 291 | 155 | 3281-SP10 |
| 3281-300A | 275-300mm | 317 | 167 | 3281-SP11 |

Measuring tips are included (mm)

| Code | Range | L | b | Measuring tips (included) | 55° setting standard (optional) |
|-----------|-----------|-------|------|--|---------------------------------|
| 3281-S25 | 0-25mm | 42 | 26 | 6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI | — |
| 3281-S50 | 25-50mm | 67 | 38 | | 3281-SP1 |
| 3281-S75 | 50-75mm | 92 | 50 | | 3281-SP2 |
| 3281-S100 | 75-100mm | 117.6 | 62 | | 3281-SP3 |
| 3281-S125 | 100-125mm | 143 | 70 | | 3281-SP4 |
| 3281-S150 | 125-150mm | 168.2 | 82 | | 3281-SP5 |
| 3281-S175 | 150-175mm | 192 | 94.5 | | 3281-SP6 |
| 3281-S200 | 175-200mm | 217 | 107 | | 3281-SP7 |
| 3281-S225 | 200-225mm | 242 | 130 | | 3281-SP8 |
| 3281-S250 | 225-250mm | 267 | 142 | | 3281-SP9 |
| 3281-S275 | 250-275mm | 291 | 155 | | 3281-SP10 |
| 3281-S300 | 275-300mm | 317 | 167 | 3281-SP11 | |

accuracy of micrometers with tips (mm)

| Pitch | Range | | | | | | | |
|---------|--------|--------|--------|--------|---------|---------|---------|---------|
| | 0-25 | 25-50 | 50-75 | 75-100 | 100-125 | 125-200 | 200-225 | 225-300 |
| 0.4~0.5 | ±0.01 | - | - | - | - | - | - | - |
| 0.6~0.8 | ±0.01 | ±0.013 | - | - | - | - | - | - |
| 1~1.25 | ±0.012 | ±0.015 | ±0.017 | ±0.017 | - | - | - | - |
| 1.5~2.0 | ±0.014 | ±0.017 | ±0.019 | ±0.019 | ±0.020 | ±0.023 | ±0.025 | ±0.028 |
| 2.5~3.5 | ±0.016 | ±0.019 | ±0.021 | ±0.021 | ±0.023 | ±0.025 | ±0.028 | ±0.031 |
| 4.0~7.0 | - | ±0.021 | ±0.023 | ±0.023 | ±0.025 | ±0.028 | ±0.031 | ±0.033 |



DATA
OUTPUT

NON-ROTATING
SPINDLE

DIGITAL SCREW THREAD MICROMETERS



3581-25A
(measuring tips are optional)

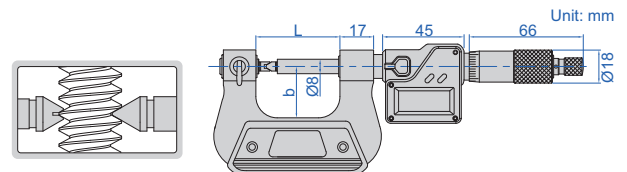


3581-S25
(measuring tips are included)

Measuring tips are optional (mm)

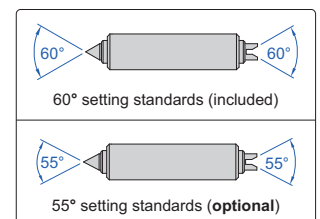
| Code | Range | L | b | 55° setting standard (optional) |
|-----------|------------------|-------|------|---------------------------------|
| 3581-25A | 0-25mm/0-1" | 42 | 26 | - |
| 3581-50A | 25-50mm/1-2" | 67 | 38 | 3281-SP1 |
| 3581-75A | 50-75mm/2-3" | 92 | 50 | 3281-SP2 |
| 3581-100A | 75-100mm/3-4" | 117.6 | 62 | 3281-SP3 |
| 3581-125A | 100-125mm/4-5" | 143 | 70 | 3281-SP4 |
| 3581-150A | 125-150mm/5-6" | 168.2 | 82 | 3281-SP5 |
| 3581-175A | 150-175mm/6-7" | 192 | 94.5 | 3281-SP6 |
| 3581-200A | 175-200mm/7-8" | 217 | 107 | 3281-SP7 |
| 3581-225A | 200-225mm/8-9" | 242 | 130 | 3281-SP8 |
| 3581-250A | 225-250mm/9-10" | 267 | 142 | 3281-SP9 |
| 3581-275A | 250-275mm/10-11" | 291 | 155 | 3281-SP10 |
| 3581-300A | 275-300mm/11-12" | 317 | 167 | 3281-SP11 |

- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, data transmit
- Data output
- Automatic power off
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm/0-1")
- Optional accessory: 55° setting standards, wireless transmitter code **7315-31** (receiver is needed) page 6, bluetooth transmitter code **7214-31** page 12, data output cable code **7302-31** page 20



Measuring tips are included (mm)

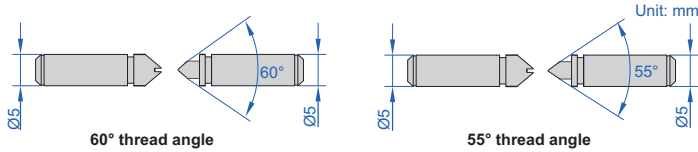
| Code | Range | L | b | Measuring tips (included) | 55° setting standard (optional) |
|-----------|------------------|-------|------|--|---------------------------------|
| 3581-S25 | 0-25mm/0-1" | 42 | 26 | 6 pairs of measuring tips: metric and unified thread (60° thread angle) 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI | - |
| 3581-S50 | 25-50mm/1-2" | 67 | 38 | | 3281-SP1 |
| 3581-S75 | 50-75mm/2-3" | 92 | 50 | | 3281-SP2 |
| 3581-S100 | 75-100mm/3-4" | 117.6 | 62 | | 3281-SP3 |
| 3581-S125 | 100-125mm/4-5" | 143 | 70 | | 3281-SP4 |
| 3581-S150 | 125-150mm/5-6" | 168.2 | 82 | | 3281-SP5 |
| 3581-S175 | 150-175mm/6-7" | 192 | 94.5 | | 3281-SP6 |
| 3581-S200 | 175-200mm/7-8" | 217 | 107 | | 3281-SP7 |
| 3581-S225 | 200-225mm/8-9" | 242 | 130 | | 3281-SP8 |
| 3581-S250 | 225-250mm/9-10" | 267 | 142 | | 3281-SP9 |
| 3581-S275 | 250-275mm/10-11" | 291 | 155 | | 3281-SP10 |
| 3581-S300 | 275-300mm/11-12" | 317 | 167 | 3281-SP11 | |



accuracy of micrometers with tips (mm)

| Pitch | Range | | | | | | | |
|---------|--------|--------|--------|--------|---------|---------|---------|---------|
| | 0-25 | 25-50 | 50-75 | 75-100 | 100-125 | 125-200 | 200-225 | 225-300 |
| 0.4~0.5 | ±0.01 | - | - | - | - | - | - | - |
| 0.6~0.8 | ±0.01 | ±0.013 | - | - | - | - | - | - |
| 1~1.25 | ±0.012 | ±0.015 | ±0.017 | ±0.017 | - | - | - | - |
| 1.5~2.0 | ±0.014 | ±0.017 | ±0.019 | ±0.019 | ±0.020 | ±0.023 | ±0.025 | ±0.028 |
| 2.5~3.5 | ±0.016 | ±0.019 | ±0.021 | ±0.021 | ±0.023 | ±0.025 | ±0.028 | ±0.031 |
| 4.0~7.0 | - | ±0.021 | ±0.023 | ±0.023 | ±0.025 | ±0.028 | ±0.031 | ±0.033 |

MEASURING TIPS FOR SCREW THREAD MICROMETERS



7381-T13

- Supplied in pair
- Suitable for 3281, 3581 series micrometers

Metric and unified thread (60° thread angle)

| Code | Pitch |
|----------|---------------------------------------|
| 7381-T11 | 0.4-0.5mm/64-48TPI |
| 7381-T12 | 0.6-0.9mm/44-28TPI |
| 7381-T13 | 1-1.75mm/24-14TPI |
| 7381-T14 | 2-3mm/13-9TPI |
| 7381-T15 | 3.5-5mm/8-5TPI |
| 7381-T16 | 5.5-7mm/4.5-3.5TPI |
| 7381-TS | 6 pairs/set, including all above tips |

Whitworth thread (55° thread angle)

| Code | Pitch |
|-----------|--|
| 7381-T21 | 60-48TPI |
| 7381-T22 | 48-40TPI |
| 7381-T23 | 40-32TPI |
| 7381-T24 | 32-24TPI |
| 7381-T25 | 24-18TPI |
| 7381-T26 | 18-14TPI |
| 7381-T27 | 14-10TPI |
| 7381-T28 | 10-7TPI |
| 7381-T29 | 7-4.5TPI |
| 7381-T210 | 4.5-3.5TPI |
| 7381-T2S | 10 pairs/set, including all above tips |

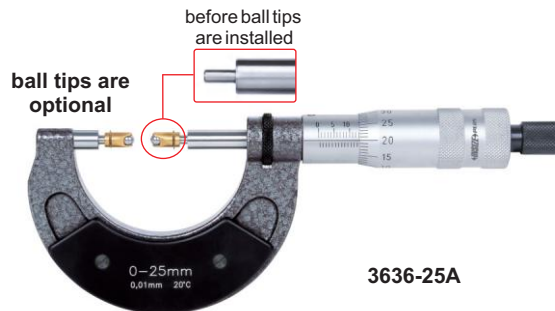
6

EXTERNAL GEAR TOOTH MICROMETERS

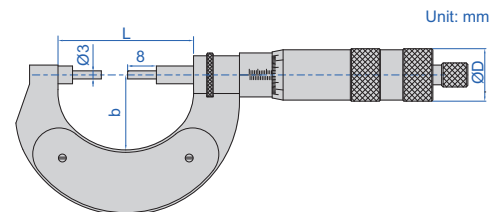
INSIZE PLUS
MADE IN EUROPE

**INSPECTION
CERTIFICATE**

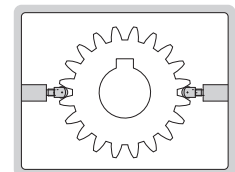
ATTENTION: SETTING
STANDARDS ARE NOT INCLUDED



3636-25A



- Meet DIN863-3
- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Optional accessory: ball tips (code 7383), setting standards (code 7386)



| Code | Range | Accuracy | L | b | ØD |
|------------|-----------|----------|-----|-----|----|
| 3636-25A* | 0-25mm | 3µm | 62 | 34 | 20 |
| 3636-50A* | 25-50mm | 3µm | 87 | 46 | 20 |
| 3636-75A* | 50-75mm | 4µm | 112 | 60 | 20 |
| 3636-100A* | 75-100mm | 4µm | 139 | 72 | 20 |
| 3636-125A* | 100-125mm | 5µm | 164 | 85 | 20 |
| 3636-150A* | 125-150mm | 5µm | 190 | 97 | 20 |
| 3636-175A* | 150-175mm | 5µm | 215 | 110 | 20 |
| 3636-200A* | 175-200mm | 5µm | 240 | 122 | 20 |

(mm)

| Code | Range | Accuracy | L | b | ØD |
|------------|-----------|----------|-----|-----|----|
| 3636-225A* | 200-225mm | 6µm | 264 | 135 | 20 |
| 3636-250A* | 225-250mm | 6µm | 290 | 148 | 20 |
| 3636-300A* | 250-300mm | 6µm | 325 | 165 | 24 |
| 3636-350A* | 300-350mm | 7µm | 370 | 190 | 24 |
| 3636-400A* | 350-400mm | 7µm | 430 | 220 | 24 |
| 3636-450A* | 400-450mm | 8µm | 475 | 250 | 24 |
| 3636-500A* | 450-500mm | 8µm | 530 | 273 | 24 |
| 3636-550A* | 500-550mm | 9µm | 570 | 291 | 24 |
| 3636-600A* | 550-600mm | 9µm | 630 | 323 | 24 |

*Supplied with manufacturer inspection certificate