



# Digital Internal Micrometer



## XTD SERIES

Bowers XTD digital internal micrometers give the operator the advantage of traditional quality ratchet gauges allied to advanced IP65 electronics. The extended mechanical travel of the XT range means that special heads can also be manufactured to accommodate users' most awkward measuring problems. Measuring heads for threads, splines, slots, grooves, deep-holes and many more applications are available on request. The Bowers XT range of internal micrometers can be supplied as individual instruments or in complete sets. All XT instruments give the user the advantage of extended measuring travel with fixed anvils and UKAS certification of measuring head.

### TECHNICAL SPECIFICATIONS : Individual Instruments supplied with Digital Display Unit, Head and Ring

| Code No (mm) | Range (mm) | Code No (inch) | Range (inch) | Accuracy |          | Depth |        | Display Unit | Setting Ring |         |
|--------------|------------|----------------|--------------|----------|----------|-------|--------|--------------|--------------|---------|
|              |            |                |              | (mm)     | (inch)   | (mm)  | (inch) |              | (mm)         | (inch)  |
| XTD1M        | 2-2.5      | XTD1i          | 0.080-0.100" | 0.004    | 0.00015" | 9     | 0.35"  | XTDU2        | 2.50         | 0.1000" |
| XTD2M        | 2.5-3      | XTD2i          | 0.100-0.120" | 0.004    | 0.00015" | 9     | 0.35"  | "            | 2.50         | 0.1000" |
| XTD3M        | 3-4        | XTD3i          | 0.120-0.160" | 0.004    | 0.00015" | 12    | 0.47"  | "            | 4.00         | 0.1600" |
| XTD4M        | 4-5        | XTD4i          | 0.160-0.200" | 0.004    | 0.00015" | 18    | 0.70"  | "            | 4.00         | 0.1600" |
| XTD5M        | 5-6        | XTD5i          | 0.200-0.250" | 0.004    | 0.00015" | 18    | 0.70"  | "            | 5.00         | 0.2000" |
| XTD6M        | 6-8        | XTD6i          | 1/4-5/16"    | 0.004    | 0.00015" | 58    | 2.28"  | XTDU6        | 8.00         | 0.3125" |
| XTD8M        | 8-10       | XTD8i          | 5/16-3/8"    | 0.004    | 0.00015" | 58    | 2.28"  | "            | 8.00         | 0.3125" |
| XTD10M       | 10-12.5    | XTD10i         | 3/8-1/2"     | 0.004    | 0.00015" | 58    | 2.28"  | XTDU10       | 12.50        | 0.500"  |
| XTD12M       | 12.5-16    | XTD12i         | 1/2-5/8"     | 0.004    | 0.00015" | 62    | 2.44"  | "            | 12.50        | 0.500"  |
| XTD16M       | 16-20      | XTD16i         | 5/8-3/4"     | 0.004    | 0.00015" | 62    | 2.44"  | "            | 20.00        | 0.750"  |
| XTD20M       | 20-25      | XTD20i         | 3/4-1"       | 0.004    | 0.00015" | 66    | 2.62"  | XTDU20       | 20.00        | 0.750"  |
| XTD25M       | 25-35      | XTD25i         | 1-1 3/8"     | 0.004    | 0.00015" | 66    | 2.62"  | "            | 35.00        | 1.375"  |
| XTD35M       | 35-50      | XTD35i         | 1 3/8-2"     | 0.004    | 0.00015" | 80    | 3.15"  | "            | 35.00        | 1.375"  |
| XTD50M       | 50-65      | XTD50i         | 2-2 5/8"     | 0.005    | 0.00020" | 80    | 3.15"  | XTDU50       | 65.00        | 2.625"  |
| XTD65M       | 65-80      | XTD65i         | 2 5/8-3 1/4" | 0.005    | 0.00020" | 80    | 3.15"  | "            | 65.00        | 2.625"  |
| XTD80M       | 80-100     | XTD80i         | 3 1/4-4"     | 0.005    | 0.00020" | 100   | 3.94"  | "            | 80.00        | 3.250"  |
| XTD100M      | 100-125    | XTD100i        | 4-5"         | 0.006    | 0.00025" | 115   | 4.53"  | XTDU100      | 125.00       | 5.000"  |
| XTD125M      | 125-150    | XTD125i        | 5-6"         | 0.006    | 0.00025" | 115   | 4.53"  | "            | 125.00       | 5.000"  |
| XTD150M      | 150-175    | XTD150i        | 6-7"         | 0.007    | 0.00030" | 115   | 4.53"  | "            | 175.00       | 7.000"  |
| XTD175M      | 175-200    | XTD175i        | 7-8"         | 0.007    | 0.00030" | 115   | 4.53"  | "            | 175.00       | 7.000"  |
| XTD200M      | 200-225    | XTD200i        | 8-9"         | 0.008    | 0.00030" | 118   | 4.65"  | XTDU200      | 225.00       | 9.000"  |
| XTD225M      | 225-250    | XTD225i        | 9-10"        | 0.008    | 0.00030" | 118   | 4.65"  | "            | 225.00       | 9.000"  |
| XTD250M      | 250-275    | XTD250i        | 10-11"       | 0.009    | 0.00035" | 118   | 4.65"  | "            | 275.00       | 11.000" |
| XTD275M      | 275-300    | XTD275i        | 11-12"       | 0.009    | 0.00035" | 118   | 4.65"  | "            | 275.00       | 11.000" |

### EXTENSIONS:

| Code No. | Length |      | To Fit Heads |         |
|----------|--------|------|--------------|---------|
|          | mm     | inch | mm           | inch    |
| EGX 0200 | 63     | 2.5" | 6-10         | 1/4-3/8 |
| EGX 0400 | 76     | 3.0" | 10-12.5      | 3/8-1/2 |
| EGX 0500 | 100    | 4.0" | 12.5-20      | 1/2-3/4 |
| EGX 0001 | 150    | 6.0" | 20-50        | 3/4-2   |
| EGX 0004 | 150    | 6.0" | 50-300       | 2-12    |



### FEATURES

- IP65 Electronics
- Simple 2-button operation
- Large easy-to-read display
- 3 preset memories
- RS-232 output
- Range 2 - 300 mm (0.080" - 12")
- 2 - 6 mm: 2 point / 6 - 300 mm: 3 point measurement
- Resolution 0.001 mm / 0.00005"
- Tungsten carbide measuring faces on all 3-point heads from 12.5mm
- Blind bore measurement from 2 mm - 6 mm and above 12.5 mm (0.500")
- Extensions available above 6 mm for deep hole measurement
- Ratchet stop to ensure consistent measurement
- Setting rings included with individual instruments and sets
- UKAS certificates supplied as standard with all gauges
- Serial number on all digital readouts and measuring heads
- Heads with special anvils available to suit specific customer requirements e.g. threads, grooves, 2-point, spherical, splines etc
- Internal Micrometers manufactured according to DIN 863, part 4
- After sales service

### SETS: Supplied with digital display unit, heads and rings

| Range (mm) | Code No | Range (inch) | Code No |
|------------|---------|--------------|---------|
| 2 - 6mm    | SXTD1M  | 0.080-0.25"  | SXTD1i  |
| 6 - 10mm   | SXTD3M  | 1/4-3/8"     | SXTD3i  |
| 10-20mm    | SXTD4M  | 3/8-3/4"     | SXTD4i  |
| 20-50mm    | SXTD5M  | 3/4-2"       | SXTD5i  |
| 50-100mm   | SXTD6M  | 2-4"         | SXTD6i  |
| 100-150mm  | SXTD7M  | 4-6"         | SXTD7i  |
| 150-200mm  | SXTD8M  | 6-8"         | SXTD8i  |
| 100-200mm  | SXTD9M  | 4-8"         | SXTD9i  |