

# Digital Internal Micrometer



## XTD SERIES

Bowers' XT3 digital internal micrometers offer a new ergonomic design - including a larger and clearer LCD display - along with IP67 electronics protection, proximity output with optional built-in Bluetooth; both allow bi-directional communication giving greater flexibility for data acquisition and storage. 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. The Bowers XT range of internal micrometers can be supplied as individual instruments or in complete sets.

### 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-BT	2-2.5	XTD1i-BT	0.080-0.100"	0.004	0.00015"	9	0.35"	XTDU2-BT	2.50	0.1000"
XTD2M-BT	2.5-3	XTD2i-BT	0.100-0.120"	0.004	0.00015"	9	0.35"	XTDU2-BT	2.50	0.1000"
XTD3M-BT	3-4	XTD3i-BT	0.120-0.160"	0.004	0.00015"	12	0.47"	XTDU2-BT	4.00	0.1600"
XTD4M-BT	4-5	XTD4i-BT	0.160-0.200"	0.004	0.00015"	18	0.70"	XTDU2-BT	4.00	0.1600"
XTD5M-BT	5-6	XTD5i-BT	0.200-0.250"	0.004	0.00015"	18	0.70"	XTDU2-BT	5.00	0.2000"
XTD6M-BT	6-8	XTD6i-BT	1/4-5/16"	0.004	0.00015"	58	2.28"	XTDU6-BT	8.00	0.3125"
XTD8M-BT	8-10	XTD8i-BT	5/16-3/8"	0.004	0.00015"	58	2.28"	XTDU6-BT	8.00	0.3125"
XTD10M-BT	10-12.5	XTD10i-BT	3/8-1/2"	0.004	0.00015"	58	2.28"	XTDU10-BT	12.50	0.500"
XTD12M-BT	12.5-16	XTD12i-BT	1/2-5/8"	0.004	0.00015"	62	2.44"	XTDU10-BT	12.50	0.500"
XTD16M-BT	16-20	XTD16i-BT	5/8-3/4"	0.004	0.00015"	62	2.44"	XTDU10-BT	20.00	0.750"
XTD20M-BT	20-25	XTD20i-BT	3/4-1"	0.004	0.00015"	66	2.62"	XTDU20-BT	20.00	0.750"
XTD25M-BT	25-35	XTD25i-BT	1-1 3/8"	0.004	0.00015"	66	2.62"	XTDU20-BT	35.00	1.375"
XTD35M-BT	35-50	XTD35i-BT	1 3/8-2"	0.004	0.00015"	80	3.15"	XTDU20-BT	35.00	1.375"
XTD50M-BT	50-65	XTD50i-BT	2-2 5/8"	0.005	0.00020"	80	3.15"	XTDU50-BT	65.00	2.625"
XTD65M-BT	65-80	XTD65i-BT	2 5/8-3 1/4"	0.005	0.00020"	80	3.15"	XTDU50-BT	65.00	2.625"
XTD80M-BT	80-100	XTD80i-BT	3 1/4-4"	0.005	0.00020"	100	3.94"	XTDU50-BT	80.00	3.250"
XTD100M-BT	100-125	XTD100i-BT	4-5"	0.006	0.00025"	115	4.53"	XTDU100-BT	125.00	5.000"
XTD125M-BT	125-150	XTD125i-BT	5-6"	0.006	0.00025"	115	4.53"	XTDU100-BT	125.00	5.000"
XTD150M-BT	150-175	XTD150i-BT	6-7"	0.007	0.00030"	115	4.53"	XTDU100-BT	175.00	7.000"
XTD175M-BT	175-200	XTD175i-BT	7-8"	0.007	0.00030"	115	4.53"	XTDU100-BT	175.00	7.000"
XTD200M-BT	200-225	XTD200i-BT	8-9"	0.008	0.00030"	118	4.65"	XTDU200-BT	225.00	9.000"
XTD225M-BT	225-250	XTD225i-BT	9-10"	0.008	0.00030"	118	4.65"	XTDU200-BT	225.00	9.000"
XTD250M-BT	250-275	XTD250i-BT	10-11"	0.009	0.00035"	118	4.65"	XTDU200-BT	275.00	11.000"
XTD275M-BT	275-300	XTD275i-BT	11-12"	0.009	0.00035"	118	4.65"	XTDU200-BT	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

- New ergonomic design with larger and clearer LCD display
- IP67 Electronics
- Simple 2-button operation
- 4 preset memories
- Proximity RS232/USB output with optional built-in Bluetooth Low Energy (BLE)
- Bi-directional communication
- Range 2 - 300mm (0.080" - 12")
- 2 - 6mm 2 point / 6 - 300mm 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 2mm - 6mm and above 12.5 mm (0.500")
- Extensions available above 6mm 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-BT	0.080-0.25"	SXTD1i-BT
6 - 10mm	SXTD3M-BT	1/4-3/8"	SXTD3i-BT
10-20mm	SXTD4M-BT	3/8-3/4"	SXTD4i-BT
20-50mm	SXTD5M-BT	3/4-2"	SXTD5i-BT
50-100mm	SXTD6M-BT	2-4"	SXTD6i-BT
100-150mm	SXTD7M-BT	4-6"	SXTD7i-BT
150-200mm	SXTD8M-BT	6-8"	SXTD8i-BT
100-200mm	SXTD9M-BT	4-8"	SXTD9i-BT



# Digital Internal Micrometer



## XT500 SERIES



ANVIL SETS 300-400mm

**SETS:** Supplied with Digital Display Unit, measuring head with exchangeable anvils and setting ring.

Code No.	Range (mm)
SXT3000M-BT	300-400
SXT4000M-BT	300-325, 400-500
SXT5000M-BT	300-500

## FEATURES

- Measuring range: 300-500mm
- New constant-force digital readout
- Single 300 mm setting ring covers full range
- Radiussed anvils of tool-steel for optimum centering
- Accuracy: 15  $\mu$ m
- Repeatability: 3  $\mu$ m
- IP67 electronics
- RS232 output
- Resolution 0.01/0.001 mm.
- Metric/inch switchable
- Fast, accurate measurement
- Extensions available for deeper bores
- Certificate of conformity with Internal Micrometer
- Supplied in fitted case
- After Sales Service

**INDIVIDUAL INSTRUMENTS:** Supplied with Digital Display Unit, measuring head with exchangeable anvils and setting ring.

Code No.	Range mm	Accuracy	Depth mm	Setting Ring (mm)
XT5001M-BT	300-325	15 $\mu$ m	120	300
XT5002M-BT	300-325, 325-350			
XT5003M-BT	300-325, 350-375			
XT5004M-BT	300-325, 375-400			
XT5005M-BT	300-325, 400-425			
XT5006M-BT	300-325, 425-450			
XT5007M-BT	300-325, 450-475			
XT5008M-BT	300-325, 475-500			

## XTL SERIES (LEVER TYPE)



**INDIVIDUAL INSTRUMENTS:** Supplied with head & ring

Code No (mm)	Range (mm)	Code No (inch)	Range (inch)	Accuracy		Depth		Lever Holder	Setting Ring	
				(mm)	(inch)	(mm)	(inch)		(mm)	(inch)
XTL6M	6-8	XTL6i	1/4-5/16"	0.004	0.00015"	58	2.28"	XTLG01	8.00	0.312"
XTL8M	8-10	XTL8i	5/16-3/8"	0.004	0.00015"	58	2.28"	XTLG01	8.00	0.312"
XTL10M	10-12.5	XTL10i	3/8-1/2"	0.004	0.00015"	58	2.28"	XTLG02	12.50	0.500"
XTL12M	12.5-16	XTL12i	1/2-5/8"	0.004	0.00015"	62	2.44"	XTLG02	12.50	0.500"
XTL16M	16-20	XTL16i	5/8-3/4"	0.004	0.00015"	62	2.44"	XTLG02	20.00	0.750"
XTL20M	20-25	XTL20i	3/4-1"	0.004	0.00015"	66	2.62"	XTLG03	20.00	0.750"
XTL25M	25-35	XTL25i	1-1 3/8"	0.004	0.00015"	66	2.62"	XTLG03	35.00	1.375"
XTL35M	35-50	XTL35i	1 3/8-2"	0.004	0.00015"	80	3.15"	XTLG03	35.00	1.375"
XTL50M	50-65	XTL50i	2-2 5/8"	0.005	0.00020"	80	3.15"	XTLG03	65.00	2.625"
XTL65M	65-80	XTL65i	2 5/8-3 1/4"	0.005	0.00020"	80	3.15"	XTLG03	65.00	2.625"
XTL80M	80-100	XTL80i	3 1/4-4"	0.005	0.00020"	85	3.35"	XTLG03	80.00	3.250"

## FEATURES

- Measuring range 6-100mm (Diameters above 100 on request)
- Excellent for vertical bore measurement
- Simple 2-button operation
- 2 preset memories
- RS-232 output
- Self-centering heads
- Constant measuring pressure
- Fast, accurate measurement
- Resolution 0.001mm (0.00005")
- Tungsten carbide measuring faces on all 3-point heads from 12.5mm
- Blind bore measurement above 12.5mm (0.500")
- Extensions available for deep hole measurement
- Setting rings included with individual instruments and sets
- Serial number on all gauges 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 heads & rings.

Code No (mm)	Range (mm)	Code No (inch)	Range (inch)
SXTL3M	6-10mm	SXTL3i	1/4-3/8"
SXTL4M	10-20mm	SXTL4i	3/8-3/4"
SXTL5M	20-50mm	SXTL5i	3/4-2"
SXTL6M	50-100mm	SXTL6i	2-4"





# Digital Internal Micrometer



## XTH SERIES (PISTOL-GRIP)

Bowers' XT3 Hometric offers a new ergonomic design - including a larger and clearer LCD display - along with IP67 electronics protection, proximity output with optional built-in Bluetooth; both allow bi-directional communication giving greater flexibility for data acquisition and storage. 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. The XT3 Hometric pistol grip range of internal micrometers can be supplied as individual instruments or in complete sets.

### TECHNICAL SPECIFICATIONS: Individual Instruments supplied with Digital Pistol Grip, 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)
XTH1M-BT	2-2.5	XTH1i-BT	0.080-0.100"	0.004	0.00015"	9	0.35"	XTPG01-BT	2.50	0.1000"
XTH2M-BT	2.5-3	XTH2i-BT	0.100-0.120"	0.004	0.00015"	9	0.35"	XTPG01-BT	2.50	0.1000"
XTH3M-BT	3-4	XTH3i-BT	0.120-0.160"	0.004	0.00015"	12	0.47"	XTPG01-BT	4.00	0.1600"
XTH4M-BT	4-5	XTH4i-BT	0.160-0.200"	0.004	0.00015"	18	0.70"	XTPG01-BT	4.00	0.1600"
XTH5M-BT	5-6	XTH5i-BT	0.200-0.250"	0.004	0.00015"	18	0.70"	XTPG01-BT	5.00	0.2000"
XTH6M-BT	6-8	XTH6i-BT	1/4-5/16"	0.004	0.00015"	58	2.28"	XTPG02-BT	8.00	0.3125"
XTH8M-BT	8-10	XTH8i-BT	5/16-3/8"	0.004	0.00015"	58	2.28"	XTPG02-BT	8.00	0.3125"
XTH10M-BT	10-12.5	XTH10i-BT	3/8-1/2"	0.004	0.00015"	58	2.28"	XTPG02-BT	12.50	0.5000"
XTH12M-BT	12.5-16	XTH12i-BT	1/2-5/8"	0.004	0.00015"	62	2.44"	XTPG02-BT	12.50	0.5000"
XTH16M-BT	16-20	XTH16i-BT	5/8-3/4"	0.004	0.00015"	62	2.44"	XTPG02-BT	20.00	0.7500"
XTH20M-BT	20-25	XTH20i-BT	3/4-1"	0.004	0.00015"	66	2.62"	XTPG03-BT	20.00	0.7500"
XTH25M-BT	25-35	XTH25i-BT	1-1 3/8"	0.004	0.00015"	66	2.62"	XTPG03-BT	35.00	1.3750"
XTH35M-BT	35-50	XTH35i-BT	1 3/8-2"	0.004	0.00015"	80	3.15"	XTPG03-BT	35.00	1.3750"
XTH50M-BT	50-65	XTH50i-BT	2-2 5/8"	0.005	0.00020"	80	3.15"	XTPG03-BT	65.00	2.6250"
XTH65M-BT	65-80	XTH65i-BT	2 5/8-3 1/4"	0.005	0.00020"	80	3.15"	XTPG03-BT	65.00	2.6250"
XTH80M-BT	80-100	XTH80i-BT	3 1/4-4"	0.005	0.00020"	100	3.35"	XTPG03-BT	80.00	3.2500"
XTH100M-BT	100-125	XTH100i-BT	4-5"	0.006	0.00025"	115	3.94"	XTPG04-BT	125.00	5.0000"
XTH125M-BT	125-150	XTH125i-BT	5-6"	0.006	0.00025"	115	3.94"	XTPG04-BT	125.00	5.0000"
XTH150M-BT	150-175	XTH150i-BT	6-7"	0.007	0.00030"	115	3.94"	XTPG04-BT	175.00	7.0000"
XTH175M-BT	175-200	XTH175i-BT	7-8"	0.007	0.00030"	115	3.94"	XTPG04-BT	175.00	7.0000"
XTH200M-BT	200-225	XTH200i-BT	8-9"	0.008	0.00030"	118	3.94"	XTPG04-BT	225.00	9.0000"
XTH225M-BT	225-250	XTH225i-BT	9-10"	0.008	0.00030"	118	4.05"	XTPG04-BT	225.00	9.0000"
XTH250M-BT	250-275	XTH250i-BT	10-11"	0.009	0.00035"	118	4.05"	XTPG04-BT	275.00	11.0000"
XTH275M-BT	275-300	XTH275i-BT	11-12"	0.009	0.00035"	118	4.05"	XTPG04-BT	275.00	11.0000"

### 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

- New ergonomic design with larger, clearer LCD swivel display
- IP67 Electronics
- Simple 2-button operation
- 4 preset memories
- Proximity RS232/USB output with optional built-in Bluetooth Low Energy (BLE)
- Bi-directional communication
- Range 2 - 300mm (0.080" - 12")
- 2 - 6mm 2 point / 6 - 300mm 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 2mm - 6mm and above 12.5 mm (0.500")
- Extensions available above 6mm for deep hole 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 pistol grip, heads and rings

Range (mm)	Code No	Range (inch)	Code No
2 - 6mm	SXTH1M-BT	0.080-0.25"	SXTH1i-BT
6 - 10mm	SXTH3M-BT	1/4 - 3/8"	SXTH3i-BT
10-20mm	SXTH4M-BT	3/8 - 3/4"	SXTH4i-BT
20-50mm	SXTH5M-BT	3/4 - 2"	SXTH5i-BT
50-100mm	SXTH6M-BT	2 - 4"	SXTH6i-BT
100-150mm	SXTH7M-BT	4 - 6"	SXTH7i-BT
150-200mm	SXTH8M-BT	6 - 8"	SXTH8i-BT
100-200mm	SXTH9M-BT	4 - 8"	SXTH9i-BT

### LARGE SETS: Supplied with digital pistol grip, heads and rings

Range (mm)	Code No	Range (inch)	Code No
6 - 20 mm	SXTH10M-BT	1/4 - 3/4"	SXTH10i-BT
20 - 100mm	SXTH11M-BT	3/4 - 4"	SXTH11i-BT