

Digital Bore Gauges



Bowers' Bluetooth XT3-BT digital internal micrometers offer an ergonomic design - including a larger and clearer LCD display - along with IP67 electronics protection, proximity output; allowing 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 on request.

The Bowers XT3-BT range can be supplied as individual instruments or in complete sets, with UKAS certification of both measuring head and setting ring as standard.

DATA TRANSMISSION

Code No	Description
30-926-6721	Sylvac Proximity USB Cable
30-981-7100	USB Dongle BT Smart for PC/D300S/D400S



The Sylvac Smart and BT anywhere apps allows communication with Bowers Bluetooth Android 8.0 IOS 10 Bluetooth 4.0 required



Features

- Ergonomic design with larger and clearer LCD display
- IP67 Electronics
- Simple 2-button operation
- 4 preset memories
- Proximity output with built-in Bluetooth
- Bi-directional communication
- Range 2-300mm (0.080" – 12")
- 2-6mm 2 point/ 6-300mm 3 point measurement
- Resolution 0.001mm/0.00005"
- Tungsten carbide measuring faces on all 3-point heads from 12.5mm
- Blind bore measurement from 2mm – 6mm and above 12.5mm (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 setting rings and 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)
- Bore gauges manufactured according to DIN 863, part 4
- Supplied in fitted wooden case



Digital Bore Gauges

TECHNICAL SPECIFICATION: Individual instruments supplied with digital display unit, head, ring and UKAS

DISPLAY UNITS ONLY

Code No	Range (mm)	Accuracy (mm)	Depth (mm)	Setting Ring (mm)	Code No	Range (inch)	Accuracy (inch)	Depth (inch)	Setting Ring (inch)	Display Unit (with BT)
XTD1M-BT	2-2.5	0.004	9	2.50	XTD1i-BT	0.080-0.100	0.00015	0.35	0.1000	XTDU2M-BT
XTD2M-BT	2.5-3	0.004	9	2.50	XTD2i-BT	0.100-0.120	0.00015	0.35	0.1000	XTDU2M-BT
XTD3M-BT	3-4	0.004	12	4.00	XTD3i-BT	0.120-0.160	0.00015	0.47	0.1600	XTDU2M-BT
XTD4M-BT	4-5	0.004	18	4.00	XTD4i-BT	0.160-0.200	0.00015	0.70	0.1600	XTDU2M-BT
XTD5M-BT	5-6	0.004	18	5.00	XTD5i-BT	0.200-0.250	0.00015	0.70	0.2000	XTDU2M-BT
XTD6M-BT	6-8	0.004	58	8.00	XTD6i-BT	1/4-5/16	0.00015	2.28	0.3125	XTDU6M-BT
XTD8M-BT	8-10	0.004	58	8.00	XTD8i-BT	5/16-3/8	0.00015	2.28	0.3125	XTDU6M-BT
XTD10M-BT	10-12.5	0.004	58	12.50	XTD10i-BT	3/8-1/2	0.00015	2.28	0.500	XTDU10M-BT
XTD12M-BT	12.5-16	0.004	62	12.50	XTD12i-BT	1/2-5/8	0.00015	2.44	0.500	XTDU10M-BT
XTD16M-BT	16-20	0.004	62	20.00	XTD16i-BT	5/8-3/4	0.00015	2.44	0.750	XTDU10M-BT
XTD20M-BT	20-25	0.004	66	20.00	XTD20i-BT	3/4-1	0.00015	2.62	0.750	XTDU20M-BT
XTD25M-BT	25-35	0.004	66	35.00	XTD25i-BT	1-1 3/8	0.00015	2.62	1.375	XTDU20M-BT
XTD35M-BT	35-50	0.004	80	35.00	XTD35i-BT	1 3/8-2	0.00015	3.15	1.375	XTDU20M-BT
XTD50M-BT	50-65	0.005	80	65.00	XTD50i-BT	2-2 5/8	0.00020	3.15	2.625	XTDU50M-BT
XTD65M-BT	65-80	0.005	80	65.00	XTD65i-BT	2 5/8-3 1/4	0.00020	3.15	2.625	XTDU50M-BT
XTD80M-BT	80-100	0.005	100	80.00	XTD80i-BT	3 1/4-4	0.00020	3.94	3.250	XTDU50M-BT
XTD100M-BT	100-125	0.006	115	125.00	XTD100i-BT	4-5	0.00025	4.53	5.000	XTDU100M-BT
XTD125M-BT	125-150	0.006	115	125.00	XTD125i-BT	5-6	0.00025	4.53	5.000	XTDU100M-BT
XTD150M-BT	150-175	0.007	115	175.00	XTD150i-BT	6-7	0.00030	4.53	7.000	XTDU100M-BT
XTD175M-BT	175-200	0.007	115	175.00	XTD175i-BT	7-8	0.00030	4.53	7.000	XTDU100M-BT
XTD200M-BT	200-225	0.008	118	225.00	XTD200i-BT	8-9	0.00030	4.65	9.000	XTDU200M-BT
XTD225M-BT	225-250	0.008	118	225.00	XTD225i-BT	9-10	0.00030	4.65	9.000	XTDU200M-BT
XTD250M-BT	250-275	0.009	118	275.00	XTD250i-BT	10-11	0.00035	4.65	11.000	XTDU200M-BT
XTD275M-BT	275-300	0.009	118	275.00	XTD275i-BT	11-12	0.00035	4.65	11.000	XTDU200M-BT

SETS: Supplied with one digital display unit, heads, rings and UKAS

DEPTH STOP

Code No (with BT)	Range (mm)	Measuring Heads	Setting Rings	Code No (with BT)	Range (inch)
SXTD1M-BT	2-6	5	3	SXTD1i-BT	0.080-0.250
SXTD3M-BT	6-10	2	1	SXTD3i-BT	1/4-3/8
SXTD4M-BT	10-20	3	2	SXTD4i-BT	3/8-3/4
SXTD5M-BT	20-50	3	2	SXTD5i-BT	3/4-2
SXTD6M-BT	50-100	3	2	SXTD6i-BT	2-4
SXTD7M-BT	100-150	2	1	SXTD7i-BT	4-6
SXTD8M-BT	150-200	2	1	SXTD8i-BT	6-8
SXTD9M-BT	100-200	4	2	SXTD9i-BT	4-8

Code No	Range (mm)	Range (inch)
DSTOP01	2-6	0.080-0.25

SETS: Supplied with digital display units with each head, rings and UKAS

Code No (with BT)	Range (mm)	Measuring Heads	Setting Rings	Note
SXTD3U-BT	6-10	2	1	with 2 display units
SXTD4U-BT	10-20	3	2	with 3 display units
SXTD5U-BT	20-50	3	2	with 3 display units
SXTD6U-BT	50-100	3	2	with 3 display units

EXTENSIONS

Code No	Length (mm)	Length (inch)	To Fit Heads (mm)	To Fit Heads (inch)
EGX0200	63	2.5	6-10	1/4-3/8
EGX0400	76	3.0	10-12.5	3/8-1/2
EGX0500	100	4.0	12.5-20	1/2-3/4
EGX0001	150	6.0	20-50	3/4-2
EGX0004	150	6.0	50-300	2-12

Note: BT denotes Bluetooth. Non-BT available upon request.
Available without rings.



SXTD5M-BT



SXTD5U-BT



XT500 Large Diameter 3-point Bore Gauge

The Bowers XT500 large diameter 3-point bore-gauge has been designed specifically for the measurement of internal diameters between 300 and 500mm. The newly designed constant-force digital readout ensures that the measuring pressure remains constant throughout the measurement whilst radiussed measuring anvils provide optimum centralisation in the part. Anvil sets are supplied in 25mm steps (300-325, 325-350 etc) and each set has been manufactured to the exact toleranced size. The 300-325mm anvils are the master reference set and are used for setting the gauge in the setting ring. The other anvil sets are then fitted as required without further re-setting. This means that only one 300mm setting ring is required to set the gauge for all diameters in the full 300-500mm range of the instrument.

Features

- Measuring range: 300-500mm
- New constant-force digital readout
- Single 300mm setting ring covers full range
- Radiussed anvils of tool-steel for optimum centering
- Accuracy: 15µm
- Repeatability: 3µm
- IP67 electronics
- Proximity output with built-in Bluetooth
- Resolution 0.01/0.001mm. Metric/inch switchable
- Fast accurate measurement
- Extensions available for deeper bores
- UKAS certificate with setting ring
- Certificate of conformity with bore gauge
- Supplied in fitted case



WiFi

Option

RS232

USB

Non Bluetooth is available on request



The Bowers XT500 with extension for deeper bores

We can also offer the XT500 with extensions and an increased force XTH pistol grip.

Please contact Bowers for price and availability

INDIVIDUAL INSTRUMENTS: Supplied with digital display unit, measuring head with exchangeable anvils and setting ring with UKAS certificate

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

EXTENSIONS TO THE XT500

Code No	Range (mm)
DHEXT500	500
DHEXT1000	1000

SETS: Supplied with digital display unit, measuring head with exchangeable anvils and setting ring with UKAS certificate

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

DATA TRANSMISSION

Code No	Description
30-926-6721	Sylvac Proximity USB Cable
25-604-064	Wireless Proximity Module Transmitter
25-604-001	USB Receiver