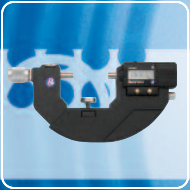




BOWERS METROLOGY

PRODUCT SUMMARY



Partners in Precision



AN OVERVIEW OF THE **BOWERS** PRODUCT RANGE

XT Analogue Bore Gauge

Bowers XT Analogue bore gauges are an economical solution to accurate shop-floor bore measurement. Application range, 2 – 300mm (300 – 500mm available on request). Micrometers and setting rings are supplied with UKAS certification.



XTL Digital Lever Bore Gauge

The **Bowers XTL** Lever range is perfect for vertical bore measurement with a simple ergonomic action and can be fitted with a wide variety of analogue and digital indicators or transducer probes. Application range of 6 – 100mm (above 100mm available on request). UKAS certification of both measuring head and setting ring as standard.



Digital Pistol Grip Bore Gauge

Bowers XT Holematic Xtreme bore gauge incorporates an ergonomic pistol grip handle with an advanced trigger action. Application range of 2 to 300mm (300 – 500mm available on request). UKAS certification of both measuring head and setting ring as standard.



XT500 Large Diameter 3 Point Bore Gauge

The **Bowers XT500** large diameter 3-point boregauge 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 radiused 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.



XT Digital Bore Gauge

Bowers XT Digital Xtreme internal micrometers give the operator the advantage of traditional quality ratchet gauges allied to advanced electronics. Range 2 – 300mm (300 – 500mm available on request). UKAS certification of both measuring head and setting ring as standard.



Ultima – Electronic Bore Gauge

Bowers Ultima Bore Gauge offers a choice of resolutions up to 0.0001mm. Featuring the NEW Bowers 'FASTFIT' measuring heads with extended measuring range (above 14mm), the Ultima boasts a simple lever operation and a constant measuring force, ensuring outstanding ease of use and repeatability under laboratory or shop-floor conditions.

Measuring Range 2 – 310mm (0.080" – 12.000").



SmartPlugs

High-precision dedicated plug gauges. To measure bore diameters between 6 - 280 mm.

Bodies available in steel, hardchrome and TiN coated. Standard or blind-bore measurement. Ball contacts of tungsten-carbide, ceramic or ruby.



WiFi
RS232

Microgauge

The **Bowers Microgauge** 2-point bore-gauging system has been designed specifically for the measurement of small bores between 1.0 - 6.0 mm. Featuring a completely new digital readout and extremely compact overall dimensions, the MicroGauge is truly a pocket-sized instrument. The clear LCD display is easily set using only two buttons and results are shown with switchable 0.01/0.001/0.0005 mm resolution. Data transfer is via Proximity-RS232 or Proximity-USB output.



Snapmic

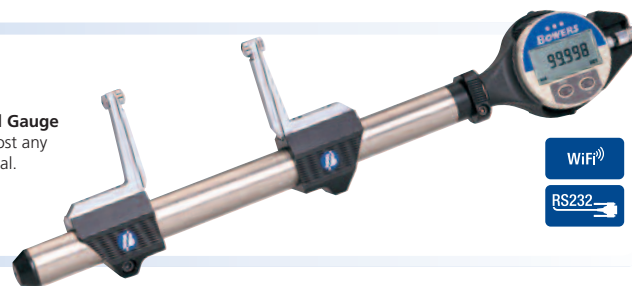
The **Bowers Snapmic** combines the attributes of an advanced digital micrometer with those of a quality, shop-floor proof snap-gauge. Two versions: 0 - 30mm and 30 - 60mm. Measuring travel: 7mm



WiFi
RS232

Universal Gauge

The modular format of the **Bowers Universal Gauge** enables it to be quickly configured to suit almost any measuring challenge, both internal and external. Measuring range 0 - 3000mm/0 - 118" (with added extensions).



WiFi
RS232

Universal Bench Gauge

The addition of a measuring table and feet converts the portable Universal Gauge into a stand-alone measuring station.

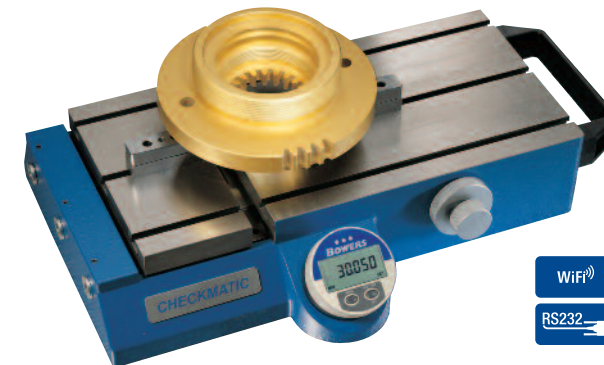
Measuring range with table:
(Internal 10 - 100mm (0.4 - 4")
(External 0 - 90mm (0 - 3.5"))



WiFi
RS232

Checkmatic

The **Bowers Checkmatic** is a universal comparator gauge with a built in multifunction digital display, 3 measurement axes, reversible measuring pressure and 15mm measurement travel.



WiFi
RS232

UniCal-Universalmessschieber

Universal Digital Caliper with Ultra light internal/external sliding gauge.

Measuring ranges: 0-300, 0-600, 0-1000.



WiFi
RS232

Snapmatic Snap Gauge

The **Bowers SNAPMATIC** snap gauge has been designed specifically for quick, reliable and accurate measurement of external cylindrical diameters. Available with the traditional mechanical dial-gauge or Bowers mini digital indicator.

Measuring ranges 0 - 25 mm (0 - 1"), 25 - 50 mm (1 - 2"), 50 - 75 mm (2 - 3"), 75 - 100 mm (3 - 4"), 100 - 125 mm (4 - 5") and 125 - 150 mm (5 - 6").



WiFi
RS232

INTEX Comparator Beam Gauge

Developed to measure both internal and external diameters and lengths, the Intex gauge's aluminium extrusion beam gives it a rigid yet lightweight quality, making it ideal for shop-floor environments. The simple release of a locking thumbscrew enables the gauge's measuring direction to be changed quickly and easily. Measuring ranges: 200-400mm, 400-600mm, 600-800mm, 800-1000mm.



WiFi
RS232

Digital and Mechanical Cylinder Bore Gauges

Bowers digital cylinder bore gauges with large LCD readout, RS-232 data output and carbide measuring contacts.

Measuring range:
12.5mm - 600mm (1/2" - 24").

Bowers mechanical cylinder bore gauges for traditional comparative measurement. Tungsten carbide measuring contacts for superior wear resistance.

Measuring range:
12.5mm - 600mm (1/2" - 24").



WiFi
RS232

Major Calipers - Analogue

This range of dial calipers gives a method of gauging where extended reach or clearance is required. Carbide measuring faces are standard. Available in internal and external versions.



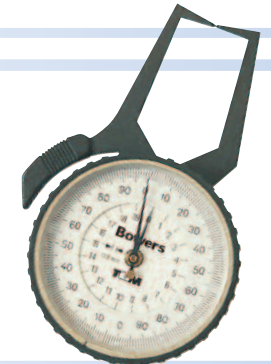
Major Calipers - Digital

Digital Major Calipers have a direct Inch/Metric indicator with switchable resolutions of 0.02mm/0.001", 0.05mm/0.0025", 0.1mm/0.005" and 0.2mm/0.010". Available in internal and external versions.



TGM External Minor Calipers

External Minor Calipers with tungsten-carbide ball-contacts. Special versions available on request.



TGM Internal Minor Calipers

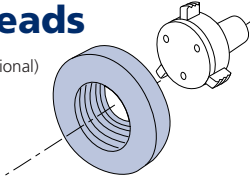
Internal Minor Calipers with tungsten-carbide ball-contacts. Special versions available on request.



Although Bowers produces the most comprehensive series of bore gauges and internal measuring equipment available, not all applications can be covered by our standard instrument range. Some of the most popular options are shown below.

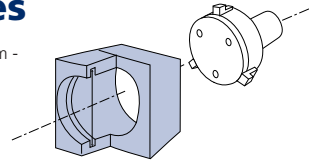
Screw Threads

To measure effective (functional) diameter, pitch diameter, major diameter, between M4 - 300mm. / No. 8 UN - 12" diameter.



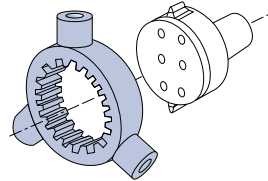
Grooves

For sizes from 2mm - 300mm diameter.



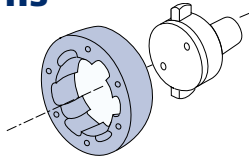
Internal Splines

2 and 3 point heads available. Anvils manufactured from tool steel. Between pin, major and minor diameter heads available. Diameters from 12 - 300mm diameter (1/2" - 12").



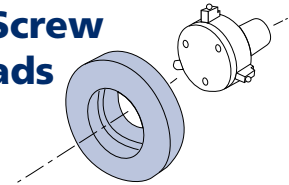
Spherical Anvils

2 point available from 3 - 150mm.
3 point from 6 - 300mm diameter.

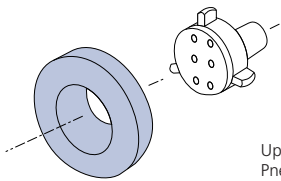


Ball Screw Threads

From \varnothing M10



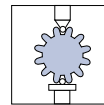
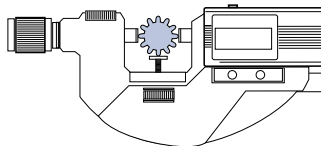
Deep Hole



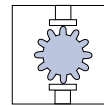
Up to 2.0 metres deep with standard extensions.
Pneumatic system available from 50mm diameter for depths of up to 15 metres.

External Splines

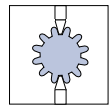
Pitch diameter frames fitted with 2 ball contact.



Pitch Diameter



Major Diameter



Minor Diameter

