



BOWERS

XT Thread Gauging



BOWERS GROUP

XT Thread Gauging

At a Glance

 **Bluetooth** Non Bluetooth is available upon request

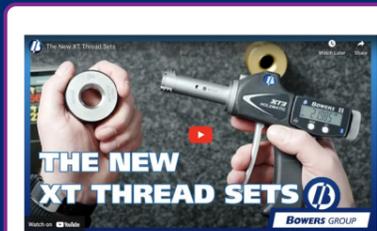
 **IP67 sealed**

Features

- Rapid measurement of threads
- Reduce machining time by giving the operator an actual measurement when forming the thread
- Negates the need for many different hard gauges, incl. pre/post plate, pre/post H/T, different classes, etc. Annual re-calibration costs are, therefore, reduced massively
- Effective (Functional), Pitch & Major measurement
- Calibrate from thread rings (Plain ring for Major Diameter)
- Rings marked with actual PD



Bowers Connect
All our XT gauges feature Bluetooth® Connectivity, perfect for quick and easy recording of data.



Have you seen our video **The New Thread Sets**

Visit our Website

For more information please click here

XT Thread Gauging

APPLICATION GAUGING

The Best Way To Measure Internal Thread Diameters

As the world's leading bore gauge manufacturer, Bowers combines decades of metrology expertise with advanced digital technology to offer a range of thread gauging solutions, from sets and heads to standard and bespoke thread gauging tailored to your application.

Modular & Adaptable

The Bowers XT range is highly adaptable. Once you have our Digital Bore Gauge, you can use multiple heads with ease. Fit them interchangeably to our Bluetooth XT range of digital micrometer controllers in seconds for fast, efficient use with incredibly accurate results!

Why Choose Thread Heads over Hard Gauging?

Our thread gauging solutions offer a number of benefits over and above traditional hard gauging:

- Unrivalled speed and ease of use by reducing the time wasted screwing hard gauges in and out.
- Provides the machinist with an actual size when forming a thread, avoiding multiple cuts and saving machining time.
- No need for multiple hard gauges, therefore reducing annual calibration costs.
- Results can be captured and stored using free app or Bluetooth device.

Contact our sales team for more information on how we can help.



XT Thread Sets

At a Glance

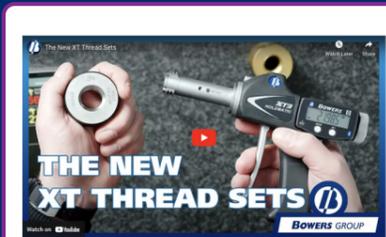
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XT Digital Thread Gauging Sets & XT Holematic Pistol Grip Thread Gauging Sets

Our XT Digital Thread Gauging Sets and XT Holematic Pistol Grip Thread Gauging Sets are engineered to deliver fast, accurate, and repeatable internal thread diameter measurement in demanding manufacturing environments.

At the heart of the XT Digital Thread Gauging Sets is the XT3 digital micrometer controller, featuring an ergonomic design including a large, high-clarity LCD display. The XT Holematic Pistol Grip Thread Gauging Set features the pistol grip controller for better handling. The large, high-clarity LCD display on both ensure readings are easy to view at a glance, while IP67-rated electronics provide excellent protection against dust and coolant ingress.

Integrated Bluetooth and proximity output enable bi-directional communication, offering greater flexibility for data collection, transfer, and storage. The result is a robust, user-friendly thread gauging system that enhances productivity, accuracy, and confidence on the shop floor.



XT Thread Sets

APPLICATION GAUGING

XTD Digital Thread Gauging Sets - Metric

Code No	Head	Ring	Readout
THRS-D-M5x 0.8	THR-H-M5 x 0.8	THRR-M5x 0.8	XTDU2M-BT
THRS-D-M6x 1	THR-H-M6 x 1	THRR-M6x1	XTDU2M-BT
THRS-D-M8x 1.25	THR-H-M8x1.25	THRR-M8x1.25	XTDU2M-BT
THRS-D-M10x1	THR-H-M10x1	THRR-M10x1	XTDU6M-BT
THRS-D-M10x1.25	THR-H-M10x1.25	THRR-M10x1.25	XTDU6M-BT
THRS-D-M10x1.5	THR-H-M10x1.5	THRR-M10x1.5	XTDU6M-BT
THRS-D-M12x1.00	THR-H-M12x1.0	THRR-M12x1.00	XTDU10M-BT
THRS-D-M12x1.25	THR-H-M12x1.25	THRR-M12x1.25	XTDU10M-BT
THRS-D-M12x1.5	THR-H-M12x1.5	THRR-M12x1.5	XTDU10M-BT
THRS-D-M12x1.75	THR-H-M12x1.75	THRR-M12x1.75	XTDU10M-BT
THRS-D-M14x1.5	THR-H-M14x1.5	THRR-M14x1.5	XTDU10M-BT
THRS-D-M16x1	THR-H-M16x1	THRR-M16x1	XTDU10M-BT
THRS-D-M16x1.5	THR-H-M16x1.5	THRR-M16x1.5	XTDU10M-BT
THRS-D-M16x2	THR-H-M16x2	THRR-M16x2	XTDU10M-BT
THRS-D-M18x1.25	THR-H-M18x1.25	THRR-M18x1.25	XTDU10M-BT
THRS-D-M18x1.5	THR-H-M18x1.5	THRR-M18x1.5	XTDU10M-BT
THRS-D-M20x1.0	THR-H-M20x1.0	THRR-M20x1.0	XTDU10M-BT
THRS-D-M20x1.5	THR-H-M20x1.5	THRR-M20x1.5	XTDU10M-BT
THRS-D-M20x2.5	THR-H-M20x2.5	THRR-M20x2.5	XTDU10M-BT
THRS-D-M22x1.5	THR-H-M22x1.5	THRR-M22x1.5	XTDU20M-BT

XTD Digital Thread Gauging Sets - Imperial

THRS-D-5/16 - 24	THR-H-5/16 - 24	THRR-5/16 - 24	XTDU2I-BT
THRS-D-1/4 - 20	THR-H-1/4 - 20	THRR-1/4 - 20	XTDU2I-BT
THRS-D-3/4 - 16	THR-H-3/4 - 16	THRR-3/4 - 16	XTDU10I-BT
THRS-D-9/16 - 18	THR-H-9/16 - 18	THRR-9/16 - 18	XTDU10I-BT
THRS-D-7/16 - 20	THR-H-7/16 - 20	THRR-7/16 - 20	XTDU6I-BT
THRS-D-5/8 - 11	THR-H-5/8 - 11	THRR-5/8 - 11	XTDU10I-BT
THRS-D-5/8 - 18	THR-H-5/8 - 18	THRR-5/8 - 18	XTDU10I-BT
THRS-D-1 - 12	THR-H-1 - 12	THRR-1 - 12	XTDU20I-BT



XT3 digital micrometer controller, featuring an ergonomic design including a large, high-clarity LCD display.

XT Thread Sets

XTH Holematic Pistol Grip Thread Gauging Sets - Metric

Code No	Head	Ring	Readout
THRSH-M10x1	THRH-M10x1	THRR-M10x1	XTPG02M-BT
THRSH-M10x1.25	THRH-M10x1.25	THRR-M10x1.25	XTPG02M-BT
THRSH-M10x1.5	THRH-M10x1.5	THRR-M10x1.5	XTPG02M-BT
THRSH-M12x1.00	THRH-M12x1.0	THRR-M12x1.00	XTPG02M-BT
THRSH-M12x1.25	THRH-M12x1.25	THRR-M12x1.25	XTPG02M-BT
THRSH-M12x1.5	THRH-M12x1.5	THRR-M12x1.5	XTPG02M-BT
THRSH-M12x1.75	THRH-M12x1.75	THRR-M12x1.75	XTPG02M-BT
THRSH-M14x1.5	THRH-M14x1.5	THRR-M14x1.5	XTPG02M-BT
THRSH-M16x1	THRH-M16x1	THRR-M16x1	XTPG02M-BT
THRSH-M16x1.5	THRH-M16x1.5	THRR-M16x1.5	XTPG02M-BT
THRSH-M16x2	THRH-M16x2	THRR-M16x2	XTPG02M-BT
THRSH-M18x1.25	THRH-M18x1.25	THRR-M18x1.25	XTPG02M-BT
THRSH-M18x1.5	THRH-M18x1.5	THRR-M18x1.5	XTPG02M-BT
THRSH-M20x1.0	THRH-M20x1.0	THRR-M20x1.0	XTPG02M-BT
THRSH-M20x1.5	THRH-M20x1.5	THRR-M20x1.5	XTPG02M-BT
THRSH-M20x2.5	THRH-M20x2.5	THRR-M20x2.5	XTPG02M-BT
THRSH-M22x1.5	THRH-M22x1.5	THRR-M22x1.5	XTPG03M-BT

XTH Holematic Pistol Grip Thread Gauging Sets - Imperial

Code No	Head	Ring	Readout
THRSH-3/4 - 16	THRH-3/4 - 16	THRR-3/4 - 16	XTPG02I-BT
THRSH-9/16 - 18	THRH-9/16 - 18	THRR-9/16 - 18	XTPG02I-BT
THRSH-7/16 - 20	THRH-7/16 - 20	THRR-7/16 - 20	XTPG02I-BT
THRSH-5/8 - 11	THRH-5/8 - 11	THRR-5/8 - 11	XTPG02I-BT
THRSH-5/8 - 18	THRH-5/8 - 18	THRR-5/8 - 18	XTPG02I-BT
THRSH-1 - 12	THRH-1 - 12	THRR-1 - 12	XTPG03I-BT



XT Holematic Pistol Grip Thread Gauging Set features the pistol grip controller for better handling.

Case Study

APPLICATION GAUGING

Bowers Group's XT Thread Gauges Help UWR in Custom Race Car Solution

The speedy assistance from Bowers Group helped us to produce a bespoke solution in manufacturing a heat exchanger replacement adaptor plate for the B48 BMW engine found in the Morgan Plus 4. It was imperative to the project that we were able to manufacture the solution quickly to keep the build of the cars on-track. The assistance from our sponsors was second-to-none. With their expertise and understanding, all aspects of the manufacture of the parts went smoothly, this had an impressively positive impact on the whole project and is something for which we are extremely grateful for.

Professor Amar Aggoun - Head of the School of Computer Science, Engineering and Mathematics - University of Wolverhampton



Bowers Group's precision measurement expertise played a crucial role in supporting the UWR with the manufacture of an adaptor plate.

Bowers Group's precision measurement expertise played a crucial role in supporting the University of Wolverhampton Racing Team (UWR) with the manufacture of an adaptor plate. Used by OEM manufacturers such as Morgan, MINI, and Toyota, adaptor plates convert the standard oil heat exchanger on the BMW B48 variant engine into an external oil cooler system. To ensure accurate measurements of critical components, Bowers Group supplied an XT3 Holematic thread gauge, aiding UWR in achieving optimal performance.

UWR and the Morgan Motor Company had been engaged in an ongoing partnership to assist building two new CX platform Plus 4 cars from road production vehicles into fully prepared racing cars, which in March of 2021 were the first of their kind. The UWR team scheduled track test days to gather performance data on the new racing cars, where they discovered an issue under extreme track conditions. This resulted in high engine and oil temperatures that could impact performance, which was more noticeable at the time in the automatic version of the car than the manual.

The UWR team decided that the best way to address the engine overheating was to lower the oil temperatures. However, at the time of the project, the latest iteration of the BMW B48 engine had no off-the-shelf oil cooler conversion available. However, time was of the essence as they understood that elevated oil temperatures could significantly impact the engine and its components.

Read more....

XT Thread Heads

At a Glance

 **Bluetooth** Non Bluetooth is available upon request

 **IP67** sealed

Individual Thread Gauging Heads

- M4 – M300 (metric)
- No8 – 12" (imperial)
- Metric, UN, Buttress, Acme, Trapezoidal, Ball screw and non-standard forms available
- Left and right handed available
- 2 Point or 3 Point available
- Very rapid measurement of threads
- Reduce machining time by giving the operator an actual measurement when forming the thread
- Negates the need for many different hard gauges, incl. pre/post plate, pre/post H/T, different classes, etc. Therefore annual re-calibration costs reduced massively
- Effective (Functional), Pitch & Major measurement
- Calibrate from thread rings (Plain ring for Major Diameter)
- Rings marked with actual PD

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For more information please click here

XT Thread Heads – The Complete Modular Solution

As the world's leading bore gauge manufacturer, we offer a range of standard thread heads that are specifically designed for precision thread diameter measurement. We also hold a large amount of popular sized metric and imperial thread heads and rings in stock.

Each of our thread heads can be fitted directly to our XT Digital Micrometer Controllers or XT Holographic Pistol Grip Controllers in seconds, enabling fast and seamless setup.

Once you have your controller, multiple heads can be used interchangeably with ease, delivering fast, efficient measurement with exceptionally accurate results that can be digitally recorded.

The Bowers XT range is highly adaptable, allowing users of our XT Digital Micrometer Controllers or XT Holographic Pistol Grip Controllers to switch between heads quickly and efficiently for maximum flexibility and precision across applications.

Custom Thread Gauging

Measuring a non-standard thread size? No problem, we can still help. If our generic thread anvil profile is not suitable for your application, please contact us with your requirements and our team will design a bespoke head, perfectly tailored to fit your specific application.

Our custom application heads can be fitted directly onto our XT range of internal micrometers to create a flexible, modular measuring system.



Contact our sales team for more information or a quote

XT Thread Heads

APPLICATION GAUGING

XT Thread Heads - Metric

Code No	Thread Type	No. Of Anvils
THRH-M10X1	M10 x 1	3-point
THRH-M10x1.25	M10 x 1.25	3-point
THRH-M10x1.5	M10 x 1.5	3-point
THRH-M12x1	M12 x 1	3-point
THRH-M12x1.25	M12 x 1.25	3-point
THRH-M12x1.5	M12 x 1.5	3-point
THRH-M12x1.75	M12 x 1.75	3-point
THRH-M14x1.5	M14 x 1.5	3-point
THRH-M16x1	M16 x 1	3-point
THRH-M16x1.5	M16 x 1.5	3-point
THRH-M16x2	M16 x 2	3-point
THRH-M18x1.25	M18 x 1.25	3-point
THRH-M18x1.5	M18 x 1.5	3-point
THRH-M20x1	M20 x 1	3-point
THRH-M20x1.5	M20 x 1.5	3-point
THRH-M20x2.5	M20 x 2.5	3-point
THRH-M22x1.5	M22 x 1	3-point
THRH-M22x1.5	M22 x 1.5	3-point
THRH-M4x0.7	M4 x 0.7	2-point
THRH-M4x0.7	M4 x 0.7	2-point
THRH-M5x0.8	M5 x 0.8	2-point
THRH-M6x1	M6 x 1	2-point
THRH-M8x1.25	M8 x 1.25	2-point

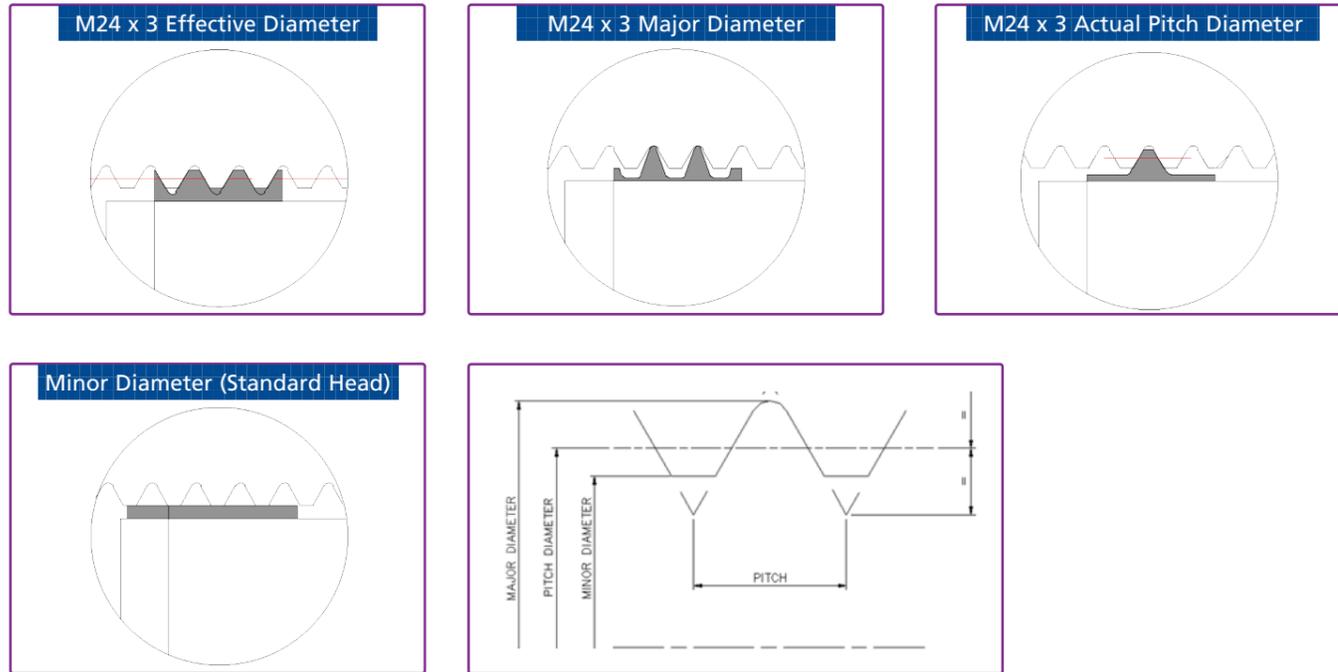
XT Thread Heads - Imperial

Code No	Thread Type	No. Of Anvils
THRH-1-12	1-12"	3-point
THRH-3/4-16	3/4-16"	3-point
THRH-5/8-11	5/8-11"	3-point
THRH-5/8-18	5/8-18"	3-point
THRH-7/16-20	7/16-20"	3-point
THRH-9/16-18	9/16-18"	3-point
THRH-5/16-24	5/16-24"	2-point
THRH-1/4-20	1/4-20"	2-point

Standard inch / metric thread heads and setting rings are ex-stock



XT Thread Heads Explained



11

Ball Screws Threads

- Internal measurement of ball-screws for the defence, aerospace, automotive and machine tool industry
- 2 and 3 Point head solution based on the popular Bowers XT system
- Single start or multi start solution
- Optimised anvil form featuring customised contacts for high accuracy
- Automated systems tooling can be supplied



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