



**BOWERS**

# XT Thread Heads




**BOWERS GROUP**



# 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
- Effective (Functional), Pitch & Major measurement
- Calibrate from thread rings (Plain ring for Major Diameter)
- Rings marked with actual PD

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



**THE NEW XT THREAD SETS**

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

## Visit our Website

For more information please click here

## XT Threads - The Best Way To Measure Internal Thread Diameters

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. We also offer non-standard thread sizes. Please contact sales@bowersgroup.co.uk to request a quote.

## Modular & Adaptable

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

## Why Choose Thread Heads over Hard Gauging?

Our thread heads 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 or 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.

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

# XT Thread Heads

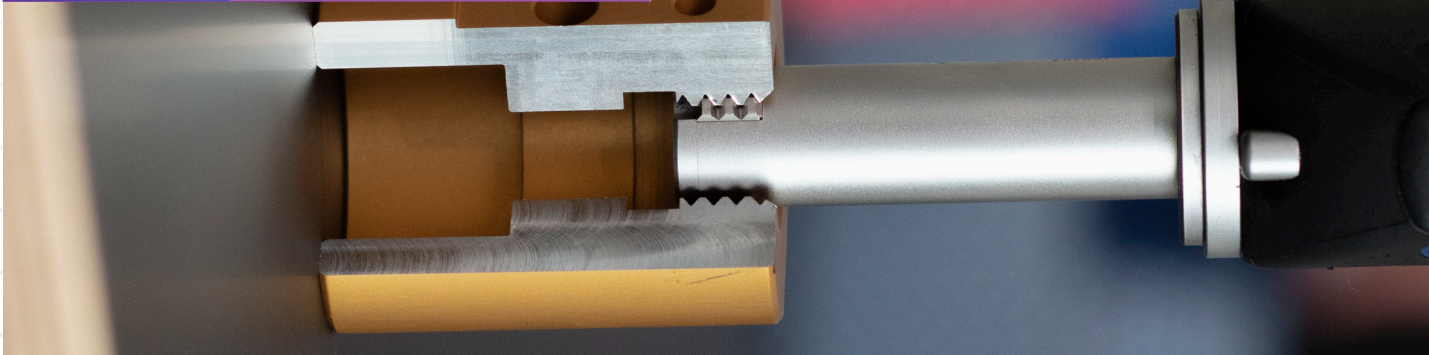
## APPLICATION GAUGING





# XT Thread Heads

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
THRR-M22x1.5	M22 x 1.5	3-point
THRH-M4x0.7	M4 x 0.7	2-point
THRR-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



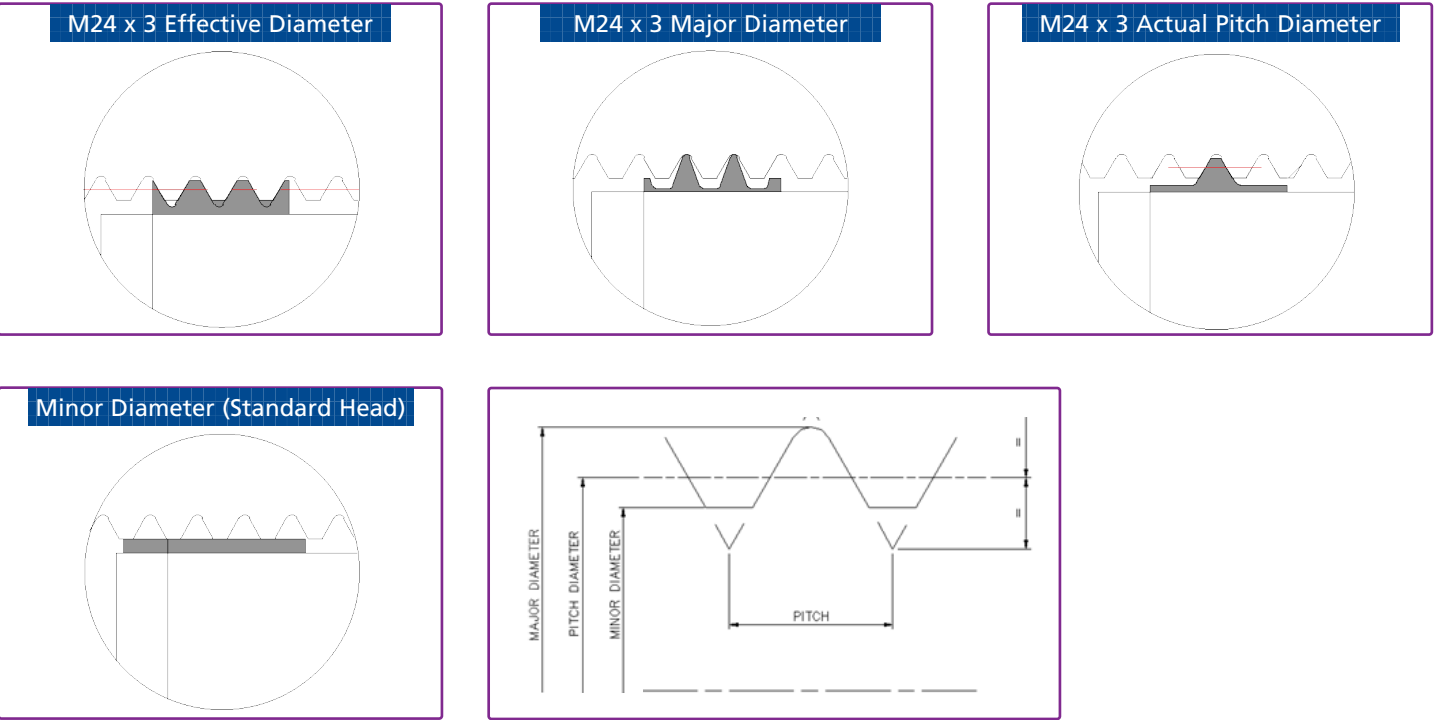
XT Thread Heads - Imperial		
Code No	Thread Type	No. Of Anvils
THRH-1-12	1-12"	3-point
THRH-3/4-16	3/4-16"	3-point
THRH-5/8-11	5/8-11"	3-point
THRH-5/8-18	5/8-18"	3-point
THRH-7/16-20	7/16-20"	3-point
THRH-9/16-18	9/16-18"	3-point
THRH-5/16-24	5/16-24"	2-point
THRH-1/4-20	1/4-20"	2-point

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



# XT Thread Heads

## Threads Explained



## 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



# 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....](#)

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