

# PRODUCT INFORMATION SHEET

## “Bench top” Femoral Head Taper Gauge

Email: [tms.sales@torus-group.com](mailto:tms.sales@torus-group.com)  
[www.torus-group.com](http://www.torus-group.com)



The NEW “Bench Top” Taper Gauge is the latest addition to Torus’ range of Orthopaedic inspection systems and offers a low cost space saving alternative to our floor standing machine without the loss of accuracy or functionality.

Designed specifically for Orthopaedic Hip manufacturers who need to control their Femoral Heads, this inspection gauge gives critical measurement information on the internal Taper dimensions.

The Gauge can accommodate the full range of Femoral Heads and measures a variety of different features such as Taper Angle, Diameters, Straightness and Form.

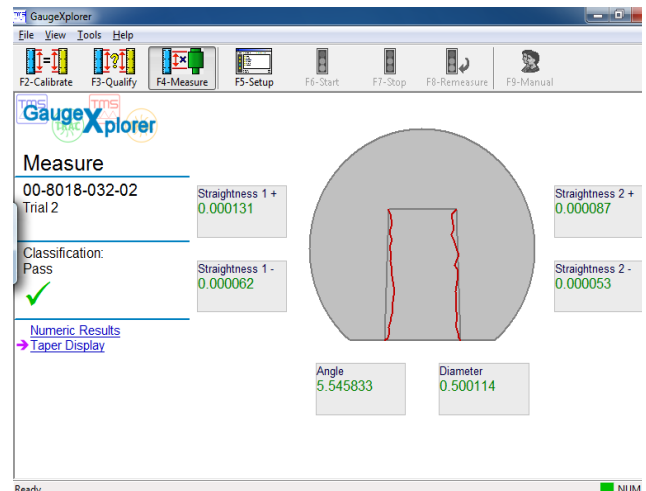
To operate, simply scan the batch card with a barcode reader and the software will automatically select the relevant component type from the menu and the powerful Windows software will prompt you to load the specific Femoral Head.

Important trace information can also be attributed, to ensure easy analysis and comparison to assist in process control.

Torus’ GaugeXplorer, state of the art Windows Software ensures the operator is presented with detailed measurement information to identify immediate areas of concern.

Our powerful on screen reporting gives information on your manufacturing process and typically each Femoral Head is inspected in less than 10 seconds....

On screen displays quickly alert operators to areas of concern, so immediate measures can be taken to reduce scrap components from the process.....





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## TECHNICAL SPECIFICATION

Component Range  
Complete Femoral Head Range

### Features Measured

Internal Diameters  
Internal Taper Angle  
Internal Straightness  
Internal Taper Form

### Accuracy

+/-0.004mm (0.000157")  
+/-30secs (0° 1')  
+/-0.004mm

### Repeatability

0.004mm (0.000157")  
0.01666° (0° 1')  
0.002mm

### Machine Attributes

Resolution of Machine  
Scan Speed Rate  
Accuracy of Encoders  
Resolution of Encoders  
Certification of Masters  
Calculation of Measurement  
Scales Used  
Probes

0.0005mm per probe  
4mm/sec @ 1000 readings/sec  
0.002mm  
0.001mm  
0.0013mm uncertainty, manufactured based on BS4064 1966 Grade AA  
Fit a least squared line to the Scan Data  
Renishaw  
TESA FMS mapped using Marposs Digicrown



### Torus Measurement Systems Limited

Nedge Hill Science Park, Telford  
Shropshire, TF3 3AJ United Kingdom  
Tel: 44 (0) 1952 210020  
Fax: 44 (0) 1952 299804  
Email: [tms.sales@torus-group.com](mailto:tms.sales@torus-group.com)

### Torus Americas, Inc.

150 Capital Drive, Suite 340-350  
Golden, Colorado, 80401, USA  
Tel: 1-303-384-0279  
Fax: 1-303-279-7551  
Email: [tai.sales@torus-group.com](mailto:tai.sales@torus-group.com)