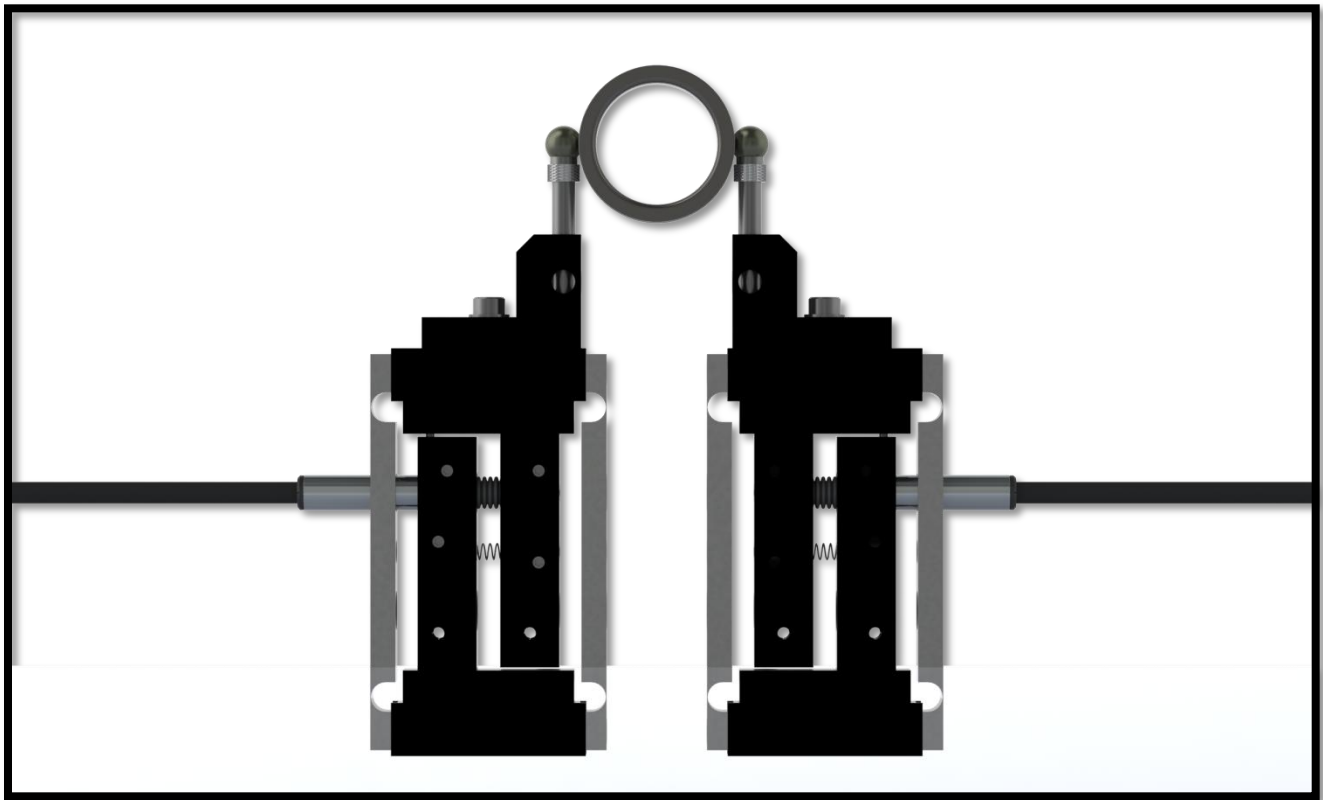


Application Story

Bearings

Bearing measurement using Flexures and Block Gauges



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The Product

Block Gauges make precision measurements of bores and cavities a simple and reliable process. A range of springs are available to ensure that tip forces can be maintained with the Block Gauge mounted in any attitude.

Flexures are ideal for very high volume and high precision applications such as bearing component gauging. They are often the best solution for measuring moving material, such as roundness testing, with Orbit® set to very high resolution and fast data transmission.

The Challenge

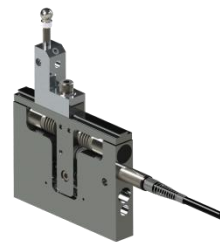
Post process gauging or the grading of bearing components are among the most demanding of all post process gauging applications. Whether it is surface finish or dimensional accuracy, bearings metrology is often extremely demanding. The right choice of sensor can improve the manufacturing efficiency, accuracy, reliability, speed of operation, service intervals and the costs of operating machinery.

The Solution

Solartron Metrology has a long history of supplying gauging transducers to the bearing industry that maintain high levels of precision for millions of cycles.

Pneumatic operation of the Block Gauge enables fast and reliable loading and unloading of the component for on-line gauging applications.

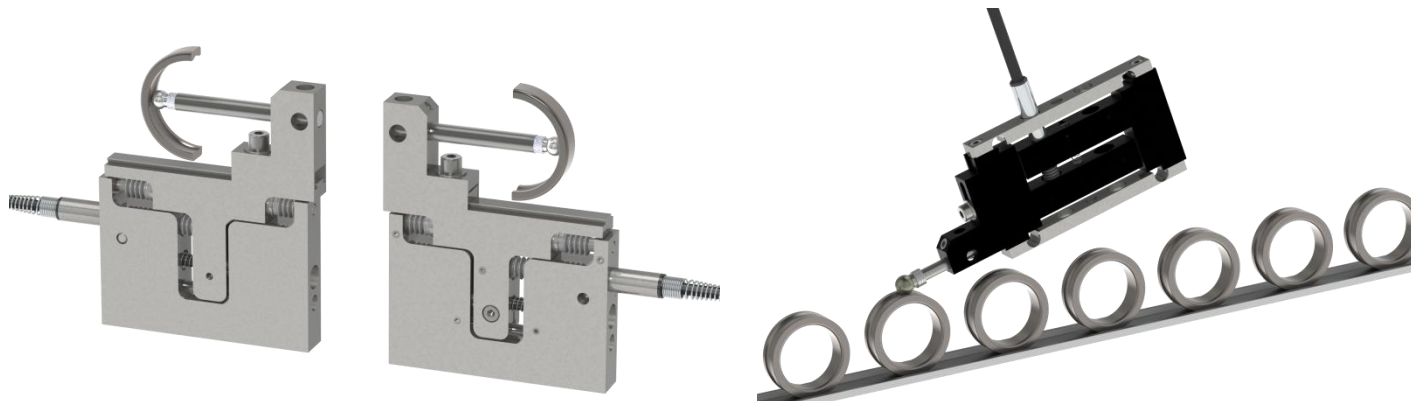
The ability of Digital Flexure to take up to 3906 readings per second at 0.1 µm resolution, enable dynamic measurements to be taken online. Deep groove gauging applications are not a problem for Solartron's universal gauges.



Range: 2, 5 or 10 mm
Accuracy: Up to 0.15% of reading
IP Rating: IP65
Repeatability: Up to 0.25 µm



Range: 1 or 2 mm
Accuracy: Up to 0.1% of reading
Resolution: Up to 0.1 µm
Repeatability: Up to 0.1 µm



United Kingdom - Head Office

Solartron Metrology
Steyning Way
Bognor Regis
West Sussex
PO22 9ST
Tel: +44 (0) 1243 833333
Fax: +44 (0) 1243 833322
Sales.solartronmetrology@ametek.com

France

Solartron Metrology
Rond-point de l'Espine des Champs
Buroplus - Bat. D
Elancourt 78990
Tel: +33 (0)1 30 68 89 50
Fax: +33 (0)1 30 68 89 59
france.solartronmetrology@ametek.com

Germany

Ametek GmbH
Solartron Metrology Division
Rudolf-Diesel-Strasse 16
40670 Meerbusch
Tel: +49 (0) 2159 9136 500
Fax: +49 (0) 2159 9136 505
vertrieb.solartron@ametek.de

India

Ametek Instruments India Private Limited
1st Floor, Left Wing
Prestige Featherlite Tech Park
Plot #148, EPIP II Phase
Whitefield, Bengaluru 560 066
Karnataka, India
Tel: +91 80 6782 3200
Fax: +91 80 6782 3232

USA

Solartron Metrology
USA Central Sales Office
915 N. New Hope Road, Suite C
Gastonia, NC 28054
Tel: +1 800 873 5838
Fax: +1 704 868 8466
usasales.solartronmetrology@ametek.com

China

AMETEK Commercial Enterprise (Shanghai) Co. Ltd
No. 155 Puhui Road
Ju Ting Economic Development Zone
Shanghai 200131
Tel: +86 21 5763 2509
Fax: +86 21 5866 0969 Ext. 261/262
china.solartronmetrology@ametek.com



Solartron Metrology

Precision Driven

Offices worldwide
Agent and distributor details
available at
www.solartronmetrology.com



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Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

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