

BOWERS METROLOGY (UK) LTD

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Bowers Accurate Ball Screw Measurement

A welcome consequence of the extended travel capability of Bowers' latest, state-of-the-art XT Xtreme Bore Gauge, is its unique ability to accurately measure the diameter of the helix grooves of internal Ball Screw components.

A highly efficient way of accurately translating rotational motion into linear action, Ball Screws are used extensively within the Machine Tool, Robotics and Aerospace industries. Ball Screws are manufactured to very close tolerances to minimise operational friction and to enable them to withstand the high thrust-loads that they are subjected to. The inaccessible, yet precise nature of ball screws components' internal grooves, previously rendered them extremely difficult to measure. Bowers is now able to accurately manufacture measuring heads matching the precise geometry of any given ball screw, groove depth and helix. When fitted to the company's advanced XT Xtreme Digital Bore Gauge, users are able to quickly achieve extremely impressive accurate and repeatable measuring results.

Ideal for companies' inspection departments or even for use within hostile measuring environments, such as in close proximity to Machine Tools, Bowers' cost-effective XT Xtreme Digital Gauges boast an impressive IP65 rating, rendering them resistant to coolant, water and airborne particles. Available to measure internal Ball Screw diameters from 10mm up to 300mm, amongst a long list of useful features incorporated into these, radical tough instruments are: a large, clear digital display, metric/inch conversion and an RS 232 output.