

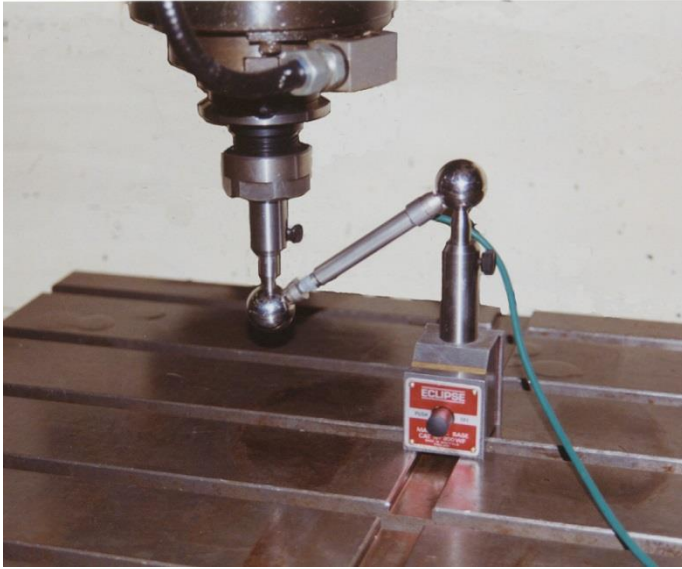


C. D. Measurements Ltd

SPECIALISTS IN ENGINEERING METROLOGY

Contisure Ball-Bar System

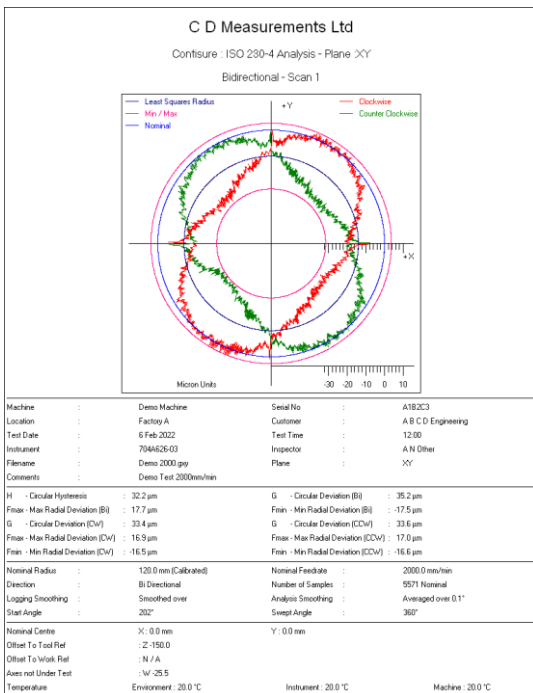
A low cost circle testing system



Our latest Contisure ball-bar and Windows software renders monitoring the accuracy of CNC machine tools, using circular contouring tests, even more cost effective. This new version incorporates 25 years of practical experience and development, since the launch of our first patented ball link system. The digital hardware has a resolution of $0.1\mu\text{m}$ over a 2mm range with a minimum link length of 50mm,

enabling a 50mm radius test to be performed without the link protruding beyond the test radius. Easy set-up features include the ability to test three planes at one set-up, allowing

rapid deployment on machining centres and lathes. The software incorporates an extensive range of features, to enabled rapid contouring assessment of machine tools.

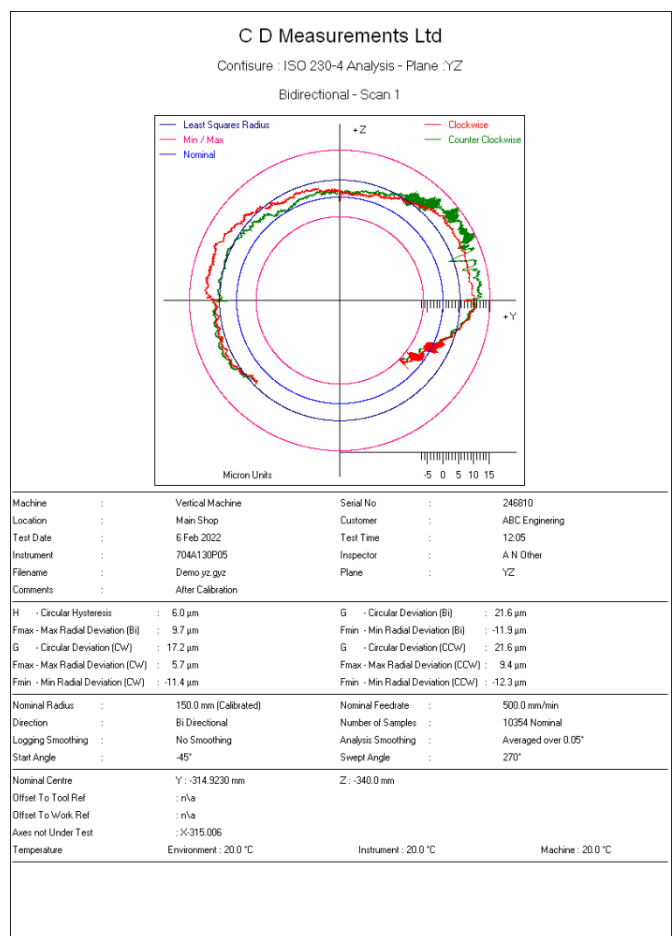


Hardware Features

- USB interface, providing power to the measurement transducer
- Grade 5 carbide reference spheres for maximum accuracy
- High resolution (0.1 μm) digital transducer link with a minimum contour radius from 50mm with carbon fibre extensions to increase contour radii as required
- Calibrated setting bar supplied complete with calibration certificate traceable to national standards
- Easy set-up permitting the measurement of three planes for the same set-up

Software Features

- Linear and polar plotting with certificates
- ISO 230-4 analysis with certificate
- Actual feedrate measurement
- Partial arc measurement
- Key error diagnosis
- Export certificate and graphs to clipboard or file for use in other applications
- Variable smoothing during logging and or analysis
- Part program generation for common machine tool controllers
- Calculation of adjusted feedrates for ISO 230-4
- Run in and run out adjustment
- Comparison of different tests for trend assessment
- Compatible with data from previous Contisure versions
- Up to 14000 data samples per 360° scan
- Results corrected for environmental conditions



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