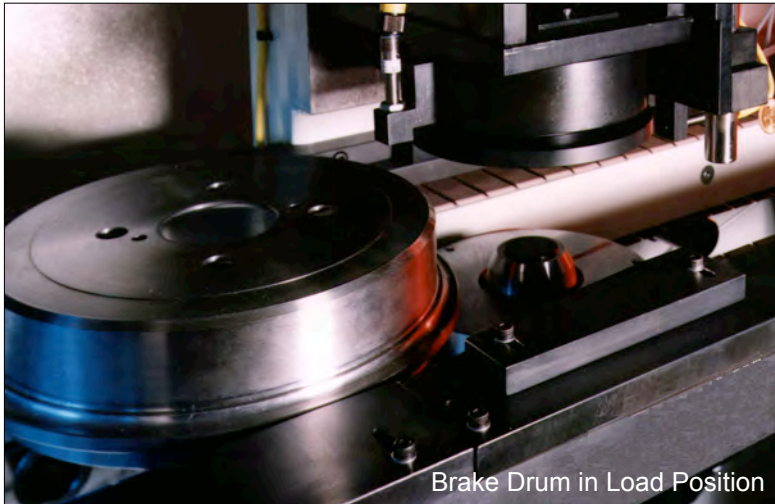


Brake Drum Measurement

Suspension Data Sheet

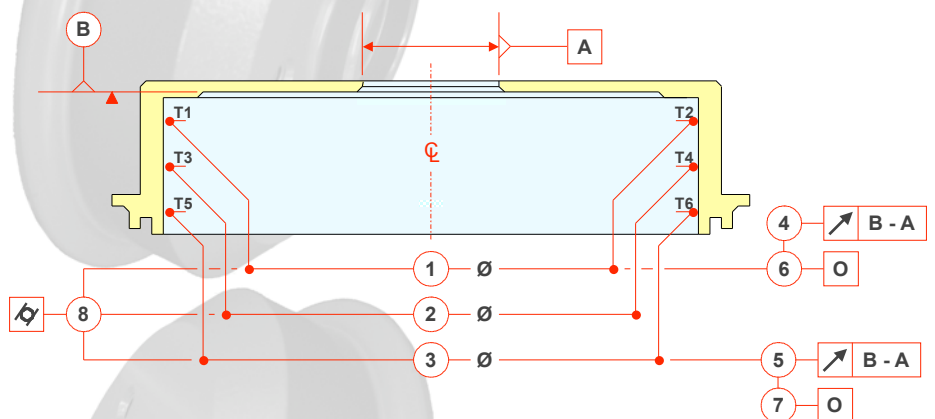


Brake Drum in Load Position

Modern production lines require analytical inspection techniques in order to produce consistently good parts.

The geometry of rotating parts, especially braking components is of critical importance, runouts and cylindricity of braking surfaces require effective monitoring during manufacture.

Fully automatic, semi-automatic and manual measurement systems inspect characteristics machined throughout the manufacturing process. Intra brake drum gauges offer fast cycle time, detailed part information and easy-to-interpret displays that ensure effective control of the manufacturing processes.



Features

- A cost-effective build approach using standard modular construction.
- Universally applicable, reliable proven designs.
- Precision optional spindle and part location with dynamic error compensation.
- Multi-dimensions and geometric features gauged simultaneously.
- Advanced software-filtering techniques of measured data.
- 10 - 15 minute part changeover.
- Computerised measuring and Control Systems - CRITERION™.
- Fourier analysis.

Benefits

- Flexibility in machine configuration.
- Cycle times to meet production needs.
- Designed for use in harsh shop floor environment
- Highly accurate and responsive tracking resulting in excellent repeatability.
- Full numerical data evaluation and in-depth SPC.
- Fourier analysis for monitoring manufacturing process.
- Selective assembly through low/high point marking.

BRAKE DRUM MEASUREMENT

Manual, Semi and Fully Automatic Systems

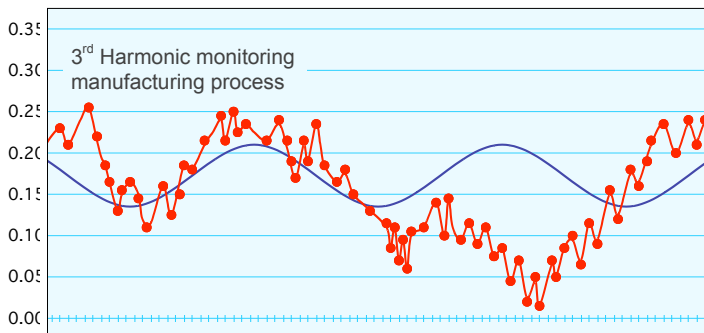
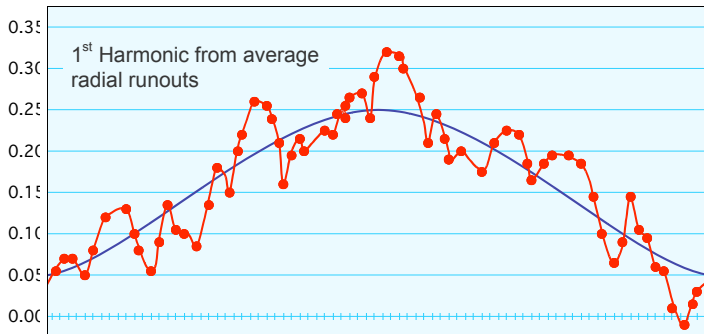
Harmonic Analysis

Using the CRITERION analysis software, a harmonic series can be derived from dynamic results collected from the gauge. Fourier Analysis is utilized to reveal the harmonic amplitudes of a measured part feature.

Certain harmonic frequencies (n^{th} harmonic) provide key information about the effectiveness of critical processes the part has encountered, such as component clamping and distortion. This data can be used to analyse machining operations and corrective action can be taken to produce good parts.

Complete manual, semi and automatic control:

	Manual	Semi Automatic	Fully Automatic
Location	Bench Top or freestanding	Freestanding	In line via conveyer.
User Requirements	Operator loaded and cycled	Operator loaded and automatically cycled	No operator required. Parts can be raised into measure position by elevator
Measuring Elements	Probes configured to customer requirement	3 pairs of diametrical opposing probes	3 pairs of diametrical opposing probes. Plus probes for diameter of pilot probe
CRITERION support	Series 100 to 500	Series 700	Series 900



Options

- Dynamic error compilation
- Spindle Part Location Compensation
- High Pressure Part Clamping (replicate application mounting).
- Electronically Generated Datum
- Date Time Marking (Videojet / Dot Matrix).
- Harmonic Amplitude.
- Marking high/low point point of runout of the 1st harmonic.



All Enquiries to Sales Department:

Europe and Asia Intra Limited

Wilbury Way,
Hitchin,
Hertfordshire,
SG4 0TS.
United Kingdom
Tel: +44 (0) 1462 424800
Fax: +44 (0) 1462 453667
info@intra-corp.co.uk

North America Intra Corporation

885 Manufacturers Drive,
Westland,
MI 48186,
USA.
Tel: +1 (734) 326 7030
Fax: +1 (734) 326 1410
info@intra-corp.net
www.intra-corp.net