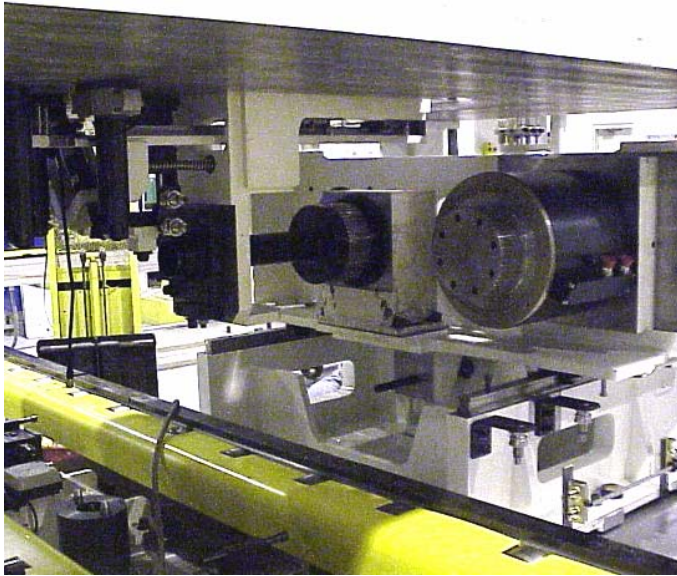


ABB Test Technology - Powertrain



Dynamic Backlash Setting Nut Adjust or Shim Select

Process

- Cycle Time 50 Seconds
- Dynamic Real-Time 360 Degree Backlash Analysis
- Backlash repeatability .012 mm or .0004 Inches
- Gear setting to "Best Fit" Backlash
- Single Flank measurements, Drive & Coast
- Encoder based measurements, no cal required
- Computer Pentium 4 PC Analysis
- Graphic programming, Labview

Test Capabilities

- Ring Gear Analysis, Run out, Order analysis
- Pinion Analysis, Run out, Order analysis
- Composite test, extrapolation
- Signature Analysis techniques
- Order Analysis
- FFT Analysis
- 0.2 Arc Second measurements

Defect Detection

- Excess Ring Gear Run-out
- Excess Pinion Run-out
- Improper Backlash, excess span

