In-Process Quality Monitoring Development Tool Kit

Monitor your process and develop an approach for in-process quality monitoring

Explorer™ Kit

Supports process investigations for test & measurement and manufacturing applications
- New machine applications - testing & benchmarking
- Existing production machines - analyze process capability
- Supports development and implementation of in-process quality monitoring systems

Discover Versatile Process Monitoring Applications!

OES offers the hardware and software to enable quality control across many industries – Automotive, Medical, Military, Aerospace, Electronic, Food and Beverage. Knowing when process conditions are changing is a cost-effective way to improve your quality standards.

Applications
- Forming
- Cold Heading
- Stamping
- Mandrel Bending
- Crimping
- Assembly
- Clinching
- Toxing
- Welding
- Riveting
- Press Fitting
- Cutting
- Drilling
- Tapping
- Machining
- Thread Rolling

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Product specifications and related information subject to change without notice.
Explorer™ Kit

Typical Investigation Steps:
- Select and validate the sensor for the application (force, strain, displacement, pressure, or motorload)
- Capture the characteristics signature during the process
- Analyze the signature for repeatability
- Introduce changes to process (quality defects, dimensional change, etc.) and evaluate the characteristic changes to the process signature.
- Confirm process capability and implement an in-process monitoring system.

Applications

| Forming  | Cold Heading | ✓ |
| Stamping | ✓            |
| Mandrel Bending | ✓ |
| Crimping | ✓            |

| Assembly  |
| Clinching | ✓            |
| Toxing    | ✓            |
| Welding   | ✓            |
| Riveting  | ✓            |
| Press Fitting | ✓ |

| Cutting  |
| Drilling | ✓            |
| Tapping  | ✓            |
| Machining| ✓            |
| Thread Rolling | ✓ |

Explorer Kit typically includes:
- ForceWorx unit
- PVM application software
- Mounting stand
- Connecting cables
- Carrying case

About OES Technologies
Since 1979, OES has provided world-leading manufacturers with process monitoring and control solutions. OES’s powerful process monitor analysis technology is made available across the ForceCapture and ForceWorx product lines.