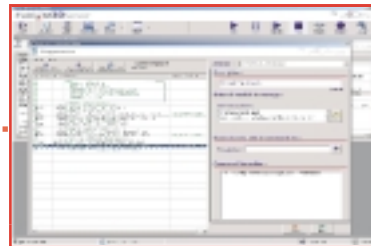
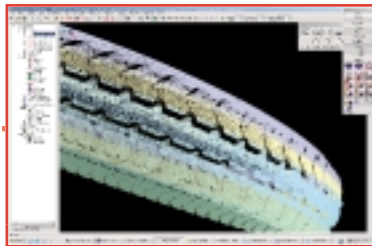
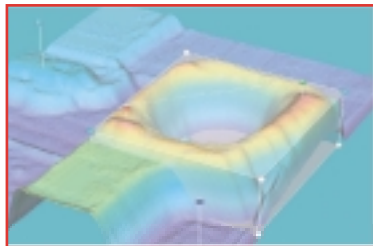


online 3D gauging

flexible online 3D gauging solution

scanning and measuring solution for robot cells



online 3D gauging

measuring system for robot cells

Basic description:

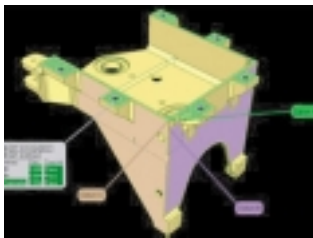
Orus' online 3D gauging system is a complete package that will turn a robot cell into a powerful precise and repeatable online 3D gauging cell. The package includes: Orus INL3D5000 high-speed 3D scanning head, FalCOM3DServer interface, Dual-Processor Intel Xeon Server, Calibration utility, Third-party software integration and robotic drivers.

Features & Benefits:

- Can be used for 100% online inspection
- Very fast 3D scanning head (up to 6,000,000 3D points per second !)
- Absolute accuracy (no master part necessary) (option)
- Easily create scanning sequence with FalCOM3DServer
- Can be used with many multi-axis robot makes and models
- Flexible system that will accommodate most parts
- Easily interface with third-party metrology software (like Innovmetric's Polyworks)

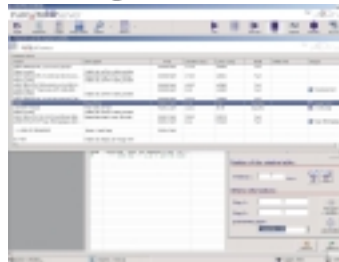
Typical applications:

- Gauging of aeronautic parts
- Gauging of automotive parts
- Tire thread identification and metrology
- Injection molded parts, Die cast parts
- Checking fixtures
- Many more ...



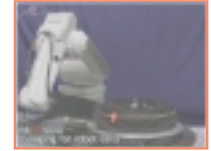
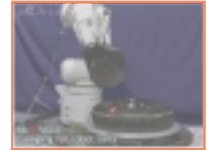
Easily integrate with third-party software like Innovmetric's Polyworks

FalCOM3DServer



FalCOM3DServer is the central platform to:

- Create, Edit, Run sequence
- Visualize scans
- Log any information during the inspection process
- Automatically run macro from third-party metrology software.



Scanning process

technical specifications

PERFORMANCE:¹

Scanning head speed:	Up to 6,000,000 points/sec
Typical overall system repeatability:	Up to 5,000 profiles/sec
Typical overall system absolute accuracy:	Scanning head: +/- 0.015 mm
Operating temperature	Complete system: up to +/- 0.025 mm
Acquiring method	up to +/- 0.050 mm
Scanning speed	10°C to 40°C with temperature compensation
	Active Laser triangulation
	Up to 2000 ft/min (609 m/min)

SOFTWARE:

Create, Edit, Load sequence	Yes
Launch macro in Innovmetric Polyworks	Yes
Drivers for supported robots	Yes (Custom drivers developed on request)
Pixel to World calibration	Yes
Support for parallel processing	Yes (On same server or multiple servers)

ADDITIONAL FEATURES:

- Support for multi-servers parallel processing
- Complete turnkey system
- External modules for automatic tasks
- Macro development in Polyworks



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1. Note that performance are affected by robot repeatability.