



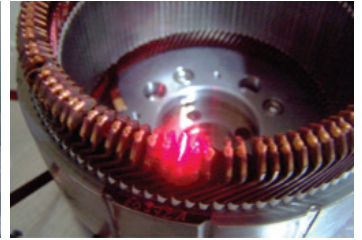
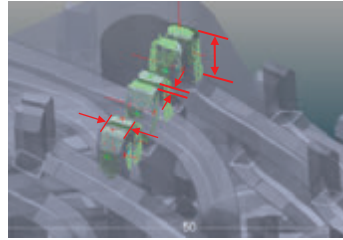
ZeroTouch[®]

ZTR Rotor / Stator

A NON-CONTACT ROTATIONAL METROLOGY PLATFORM

A precise, high-speed metrology and inspection system for processing rotors and stators in just a fraction of the time versus traditional metrology methods.

ZeroTouch[®] ZTR is a robust, production-ready, near-line or in-line, non-contact metrology platform that captures and analyzes millions of data points in **30 seconds**.



KEY BENEFITS

- Developer coating not required to capture shiny surfaces
- Configurable for both in-line or near-line use
- Capable of inspecting single laminate, stacked laminate core, and final assembly with hairpin (stator) or shaft (rotor)
- System functions in manual or fully automatic mode
- Allows for 100% inspection of parts leading to process and quality improvements
- Inspects both rotors and stators in the same system
- Supports a wide range of dimensions and weights
- Small footprint allows for optimal usage of production space

KEY FEATURES

- High-speed inspection and analysis: 30 seconds vs 30+ minutes by other tactile systems
- Captures dense precision point cloud data for rapid feature and dimensional analysis
- Scans different materials and constructs, including hairpin windings, insulators, and laminate stacks
- Capable of inspecting insulating enamel or impregnating resin coatings on hairpins

DWF



ZeroTouch[®]

ZTR Rotor / Stator

PRECISION PART INSPECTION FASTER THAN TRADITIONAL METROLOGY

SPECIFICATIONS

MACHINE ATTRIBUTES

| | |
|---|---|
| System Dimension (W x D x H) ¹ | 1,150 mm x 1,550 mm x 2,805 mm (42.25 in x 61.0 in x 110.5 in) |
| Weight | 2,000 kg (4,400 lbs) |
| Max. Measurable Envelope (Diameter x Length) | 425 mm x 300 mm (16.7 in x 11.8 in) |
| Max. Part Outer Diameter | 425 mm (16.7 in) |
| Max. Part Length | 375 mm (14.8 in) |
| Payload Weight Max. | 30 kg (66 lbs) |
| Typical Inner Diameter | 120 mm (4.7 in) |

ENVIRONMENTAL

| | |
|-----------------------------------|--------------------------------|
| Temperature (Transport / Storage) | 15°C (59°F) to 40°C (104°F) |
| Temperature (Operational) | 18°C (64.4°F) to 22°C (71.6°F) |

ELECTRICAL SUPPLY

| | |
|--------------------|--|
| Electrical Service | 208-230 VAC, 50/60Hz, 30A, 1-PHASE+GND |
|--------------------|--|

CERTIFICATION

| | |
|------------|----|
| Compliance | CE |
|------------|----|

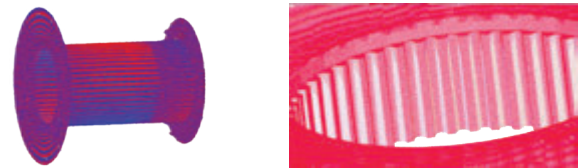
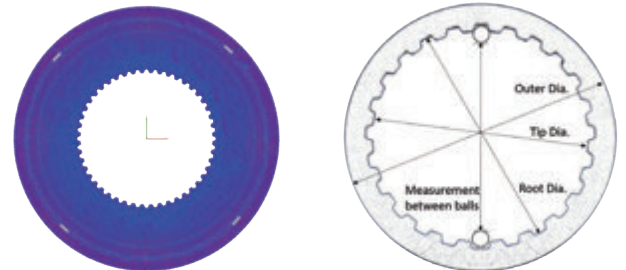
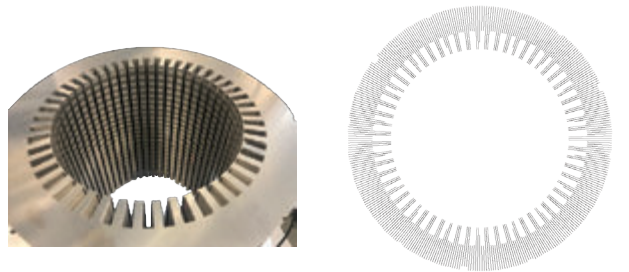
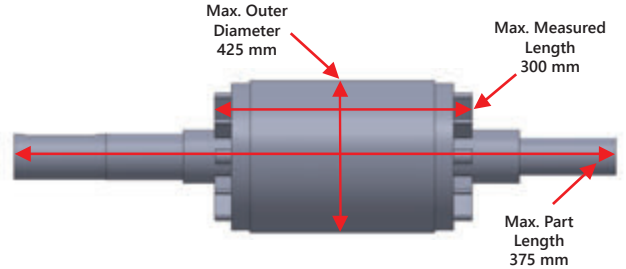
METROLOGY PROCESSING

| | |
|-----------|--|
| Computer | Industrial HMI Premium Performance GPU |
| Processor | Intel® Core™ i7-7700T Processor |
| RAM | 16GB DDR4 |
| GPU | NVIDIA GTX 1050Ti |

SOFTWARE

| | |
|----------------------|--|
| HMI Operating System | Windows |
| System Control | ZeroTouch® Orchestrator |
| Metrology Analysis | ZeroTouch® Rotor / Stator Analysis Package |

¹ Actual machine size will depend on configuration.



DWFRITZ[®]

M E T R O L O G Y

DWFritz Metrology, a wholly owned subsidiary of DWFritz Automation, is a global provider of high-speed, non-contact metrology and inspection platforms for advanced manufacturing. DWFritz Automation designs, builds, and supports engineer-to-order automation systems, as well as provides world-class build-to-print manufacturing capabilities.

KEY INDUSTRIES



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Automotive



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