



ZeroTouch[®]

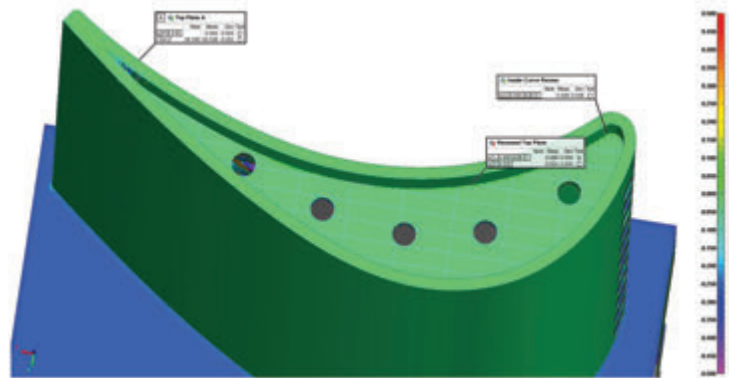
ZTM-333

A NON-CONTACT MULTIPURPOSE METROLOGY PLATFORM

A precise, high speed metrology and inspection system for processing complex geometries in just a fraction of time versus a traditional CMM

ZeroTouch[®] ZTM-333 is a robust, shop-floor ready, non-contact metrology platform that captures millions of data points faster than a traditional CMM.

Measurement Profile of Turbine Blade



KEY BENEFITS

- One system captures multiple measurements simultaneously in a fraction of time versus a traditional CMM
- Easy creation of part inspection plans saves measurement times of different parts
- Ease of part placement reduces setup time per part
- Micron-level precision, non-contact metrology with high repeatability
- Fast identification of production defects, enabling adjustment of upstream processes to reduce waste
- Highly configurable and optimized for each manufacturer's specific application

KEY FEATURES

- Captures precision point cloud data to construct complex 3D profiles
- Advanced analytics integration with application specific tools
- GD&T measurements, including complex geometries such as chamfers, knife edges, undercuts and bores
- Defect detection capabilities
- Configurable metrology sensor bridge, including:
 - Laser and chromatic confocal sensors
 - High resolution cameras with multispectral lighting



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ZeroTouch[®]

ZTM-333

PRECISION PART INSPECTION FASTER THAN TRADITIONAL CMMs

SPECIFICATIONS

SYSTEM PERFORMANCE

ISO 10360 MPE	2µm+L/100
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SCANNING

Part Volume (max)	300 x 300 x 300 mm (L x W x H)
Scanning Travel	380 x 380 x 380 mm (X-Y-Z)
Part Weight (max)	10 kg, CG within 100 mm of Theta rotation axis
Form Measurements	Straightness, Flatness, Circularity, Cylindricity
Orientation Measurements	Parallelism, Perpendicularity, Angularity
Location Measurements	Position, Profile, Concentricity, Symmetry

MACHINE SIZE

System Dimensions (W x D x H)	2,400 (95in) x 1,600 (63in) x 1,900 mm (75in)
System Weight	3,550 kg (7,825 lbs)

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)
Rate of Change	2°C (3.6°F) per hour

ELECTRICAL SUPPLY

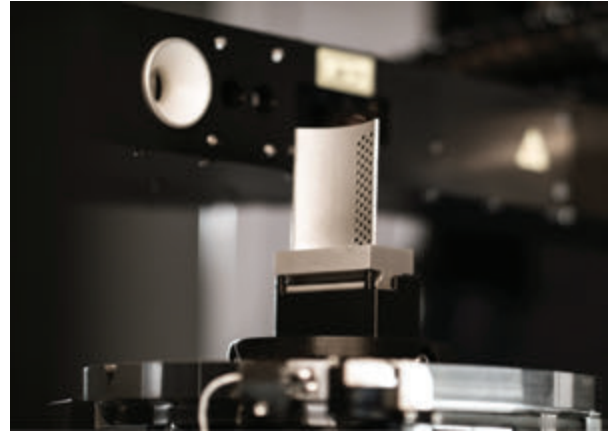
Electrical Service	208/230/240VAC, 50/60Hz 30A, 1-PHASE + GND
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PNEUMATIC SUPPLY

Required Operating Pressure	0.59MPa (85 psi)
Maximum Machine Inlet Pressure	0.66MPa (95 psi)
Consumption	280 l/min (9.9 SCFM) @0.59MPa (85 psi) 20°C (68°F)
Clean Dry Air (CDA) Requirement (ISO 8573-1)	ISO Class 3-3-3
With Optional Conditioning Module	ISO Class 3-3-3

SOFTWARE

OS	Windows
System Software	DWF ZeroTouch [®] application
Analysis Software	Metrolog X4, PolyWorks Inspector
Reference Model Data Formats	STP, IGS



KEY INDUSTRIES



Aerospace



Medical Devices



Precision Manufacturing



Automotive

DWFRITZ[®]
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DWFritz Metrology is a global provider of high-speed, non-contact metrology and inspection platforms for advanced manufacturing. The company designs, builds, and supports engineer-to-order automation systems, as well as provides world-class build-to-print manufacturing capabilities.