

WIZinspect Accuracy Specifications

Performance

• Typical Automatic Alignment Time:	50 seconds
• Typical Feature Measurement Time:	5 seconds
• Platform Accuracy:	$E=(3+3.5L^*) \mu\text{m}$
• Total Machine Accuracy:	14 μm (2 sigma)
• Total Machine Repeatability:	4 μm (2 sigma)
• Data Capture Rate:	50 points per second

L* = Length in meters

Platforms

Model	Stroke (mm)			Weight (Kg.)
	X	Y	Z	
WIZinspect 5-4-4	500	400	400	245
WIZinspect 7-7-5	700	650	500	800
WIZinspect 10-7-5	1000	650	500	950
WIZinspect 12-7-5	1200	650	500	1050
WIZinspect 7-7-7	700	700	650	1000
WIZinspect 10-7-7	1000	700	650	1150

Larger models are available upon request

- Renishaw PH10 Motorized Head
- Feedback: Linear encoder

Utility Requirements

- Power Supply: 110/220 VAC, 16 Amps.
- Air Supply: 17 liter/min @ 5 bar, 0.5 CFM @ 75 PSI

Notes

- Platform Accuracy is verified according to ISO 10360-2 standard
- Total Machine Accuracy verified by scanning a standard ball bar

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NEXTEC
3D Inspection Technologies

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WIZinspect

The Best
Inspection Solution



NEXTEC
3D Inspection Technologies

Inspects, Analyzes,

Reports, Alerts, Improves

The answer for high speed - high precision part inspection

- Top speed
- Comprehensive Solution
- Automatic Alignment - No expensive fixtures
- Top Accuracy
- Customized Inspection Reports

The Industry Challenge

The industry need to enhance the quality control of parts in terms of speed, precision, cost, minimum setup time, automation and process control.

The WIZinspect Solution

The WIZinspect is a turnkey Inspection Solution for rapid high precision measuring of high volume parts and components.

The WIZinspect Solution features the highly acclaimed WIZprobe™ - laser scanning probe, a state-of-the-art 4 axis motion controller and WIZinspect application software.



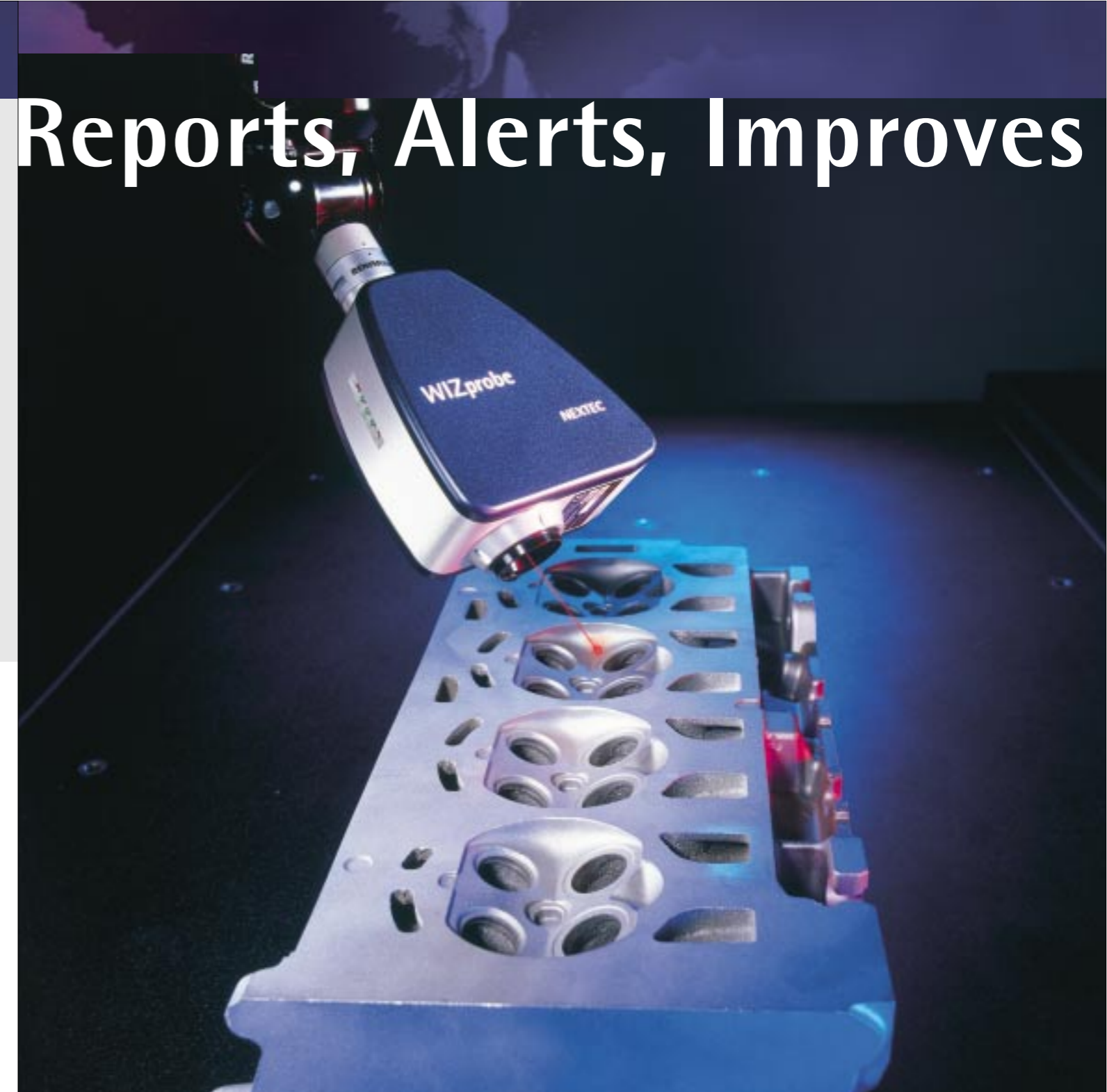
WIZinspect

The WIZprobe™

- WIZprobe is an advanced non-contact laser-scanning sensor for fast, accurate and highly reliable geometric measurements
- WIZprobe measurement accuracy is guaranteed over a very wide range of material types, colors, surface finish and laser beam angles
- The WIZprobe is small in size, has a standard PH-10 interface
- Unique adaptive control capabilities enable self-adaptation to changing conditions during the scanning process

The Inspection Software

- High resolution, high density small features measurement
- Automatic software alignment of part position
- Data analysis and automatic comparison to design data and defined tolerances
- Inspection report generation with high-resolution information and all relevant part dimensions
- Dynamic zooming on the measured profiles
- Display of actual and nominal dimensions on the screen
- Multicolor display of the designed and measured dimensions
- Hawk Option - The 3D scan data can be exported to any CAD compare software for 3D part analysis and inspection



The Motion Controller

- High performance 4 axis motion controller
- Data acquisition is captured on the fly
- Automatic surface tracking capability

The Platform

- A variety of different Platform sizes are available to accommodate customers' specific applications
- Optional Kit for CMM retrofit

Unprecedented Accuracy

- The WIZprobe™ laser scanning sensor offers a large dynamic range and un-precedent precision
- The WIZprobe™ laser sensor with superior accuracy meeting the most stringent tolerances

Ease of Ownership

- Powerful and user-friendly application software
- Complete turn-key solution

Fast Return on Investment

The combination of exceptional performance and low price ensures a fast Return On Investment with superior process control at reduced manpower.