

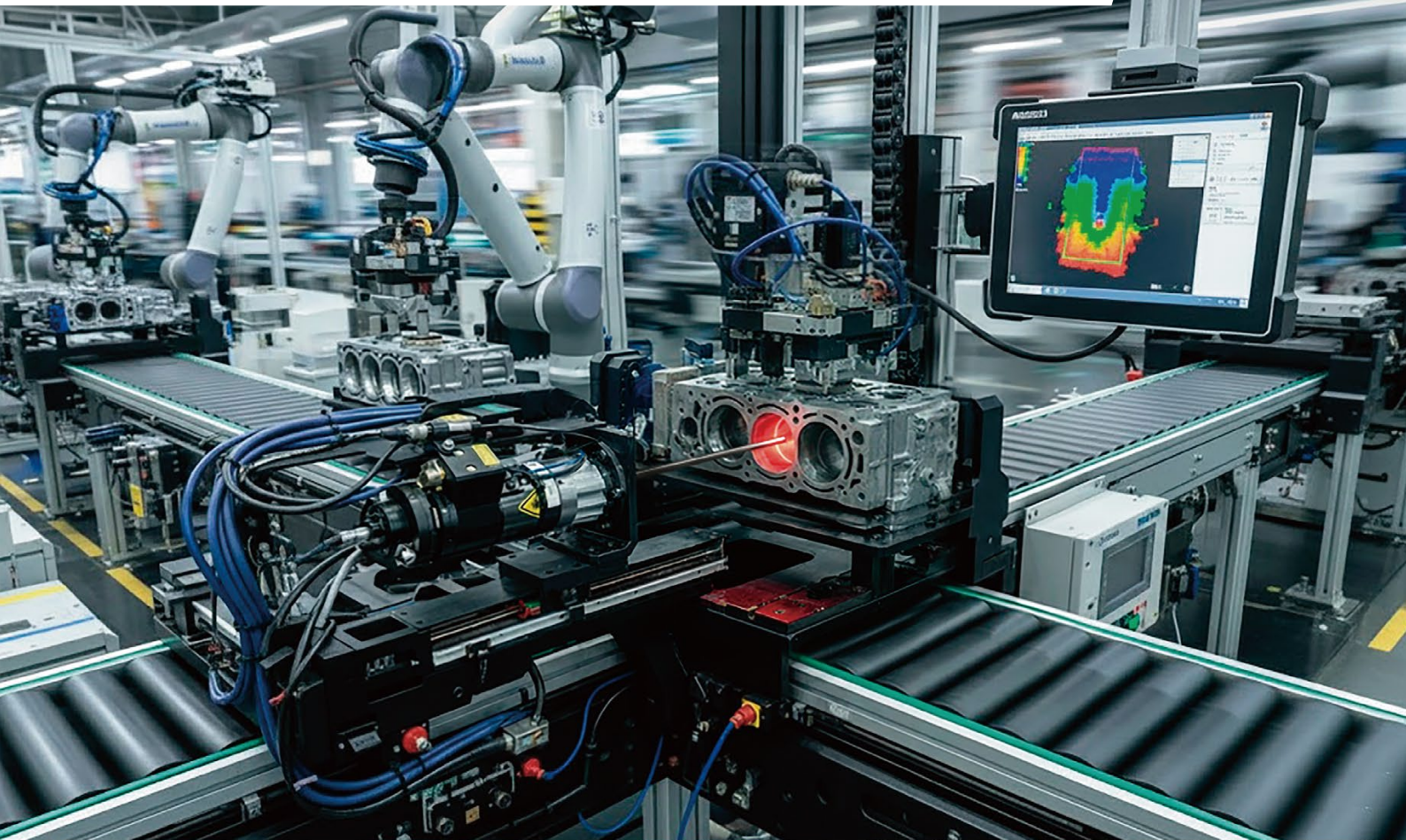
From Visual Inspection to Data-Driven Quality Control

ANALYZER3[®]

Laser-Based Internal Defect Inspection System

For Automotive, Heavy Equipment, and Industrial Applications

— Built for high-volume, high-throughput production lines — retrofit-friendly.



Replace subjective visual inspection with objective data through laser scanning.

Detect defects deep inside bores with high precision.

Ensure consistent quality with reduced operator dependency.

Problems with Bore Inspection?

Manual inspection creates inconsistency and risk.

- Results vary by operator skill
- Defects are missed due to fatigue
- Deep or narrow areas are difficult to inspect reliably

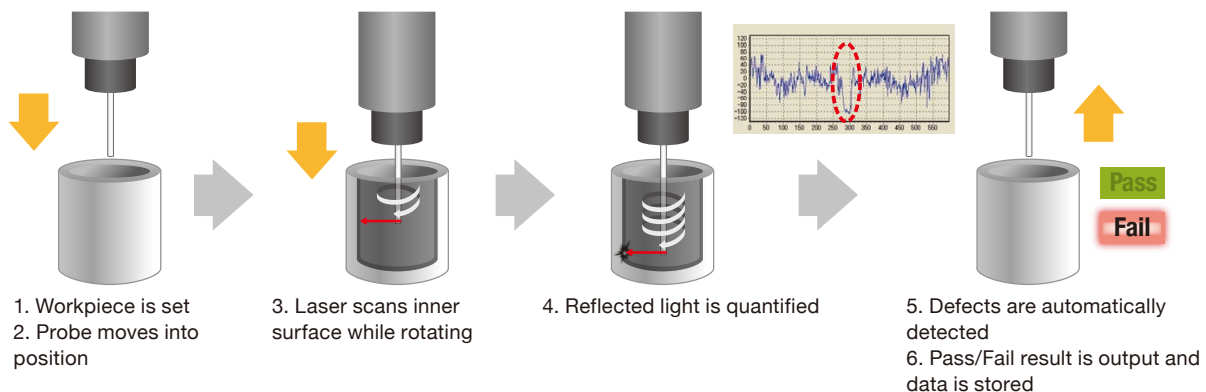


Automate Bore Inspection — Eliminate Human Error

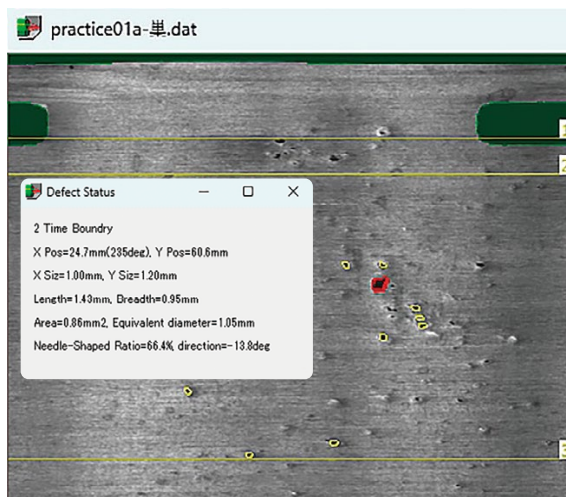
ANALYZER3 uses laser scanning to detect internal surface defects automatically and consistently.

— eliminating variability caused by operator skill or fatigue.

[How ANALYZER3 Works]



[Defect Detection Examples - Porosity]



[Key Features of ANALYZER3]

- Robust against ambient light (compared to camera-based systems)
- Inspects bores as small as Ø4 mm, up to 200 mm deep
- Fast inspection: ~5 seconds per bore
- Detects defects ≥ 0.2 mm (porosity, scratches, etc.)
- Capable of inspecting threaded holes
- High repeatability and measurement stability
- Pass/Fail judgment via rule-based logic or AI
- Full data traceability
- Collision detection option reduces probe damage risk

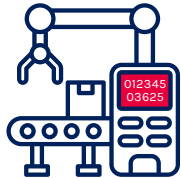
Notes:

- Specifications may vary depending on bore size and conditions.
- Minimum detectable defect size may vary depending on surface material and finish.
- Collision detection reduces (but does not eliminate) probe damage risk.
- Contact your local distributor for detailed specifications and compatibility.

Repeatable, Objective Inspections

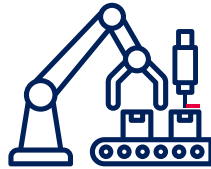
Key Benefits of ANALYZER3

Data-Driven Inspection



Objective results based on defined criteria — not operator judgment.

Reduced Operator Dependency



Minimize reliance on operator skill and manual inspection.

Consistent Quality



Reduce variation, missed defects, and over-rejection.

Customer Gains — Real Case Results

Optimize Workforce Efficiency

Metric	Before (Manual)	After (Automated)	Improvement
Operators	 (8)	 +  (2)	Labor Cost Reduction: up to 75%
Inspection Time	 7 min/part	 5 min/part	Inspection Time Reduction: ~30% faster
Defect Escape	 3 cases/year	 0 cases/year	Defect Escape: 0 cases reported
False Reject Loss	 ¥5.8M/year	 ¥2.2M/year	Annual Cost Reduction: up to 62%

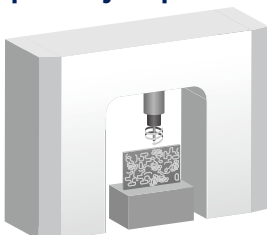
* Results may vary depending on application and conditions.

Production-Ready & Retrofit-Friendly Design

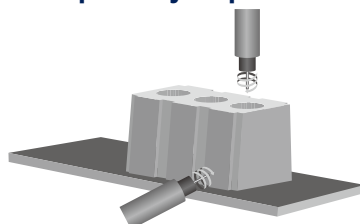
Typical Applications:

Valve bodies, engine bores, threaded holes in housings — any bore requiring reliable internal surface defect detection (e.g., porosity, scratches).

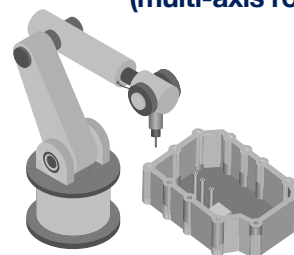
Valve body porosity inspection



Engine block porosity inspection



Threaded hole inspection in housings (multi-axis robot compatible)



System Flexibility

- Flexible probe installation in any orientation
- Compact system design for easy line integration
- Retrofit-friendly for existing production lines

Fast Sample Test to Production

01

Sample Testing

Verify detection using your actual parts.

02

System Proposal

Tailored design for your production line.

Order Confirmation
Lead Time:
Approx 3 months

03

Installation & Commissioning

On-site parameter tuning and startup support.

04

Production Launch

Handover to customer. Email support; distributor service.

**Request a Free
Sample Test Today**

- Verify detection capability with your actual parts
- Get a detailed inspection report — ready to share with your team
- No cost. No commitment.

Proven in Manufacturing Environments Worldwide

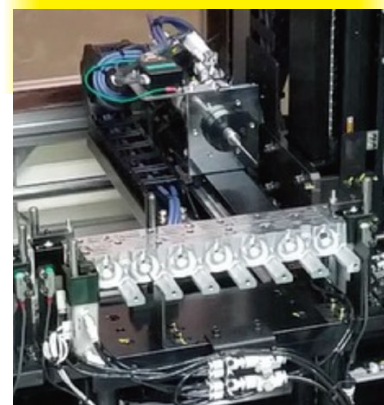
With over 20 years of experience in internal inspection, ANALYZER has been trusted by manufacturers worldwide.

- Installed in over 10 countries across Asia, including India, and North America
- Over 500 units delivered worldwide, widely adopted by leading automotive parts manufacturers
- Designed for continuous operation in high-volume production environments (24/7 uptime)

10+ Countries, 500+ Units Installed



Production-Line Proven



Contact Us

Request a free sample test or consultation today

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