

AM-QUALITY

About Us

AM-Flow supports companies in scaling their manufacturing operations through advanced automation solutions.

Our modular product portfolio optimizes post-processing workflows and seamlessly integrates with existing systems - enabling efficient, connected, and high-mix production environments in both additive and traditional manufacturing.



Full spherical scanning



Up to 50 µm accuracy



Real-time pass/fail evaluation



6-12 seconds takt-time



Detailed metrology reporting

STANDALONE QUALITY CONTROL

The AM-Quality system offers semi-automated, high-speed, full-spherical quality inspection - now available as a flexible, independent station.

Designed for low-volume, delicate, and/or heavy parts inspection, it provides the same proven accuracy and reliability of our inline system, without being tied to a production line or cycle speed.

AM-Quality performs rapid, non-contact inspections by comparing each scanned part to its original digital file and automatically detecting deviations in shape, geometry, or volume for a quick Pass/Fail evaluation.

It can generate a full metrology report with custom-set tolerances, supporting statistical process control and capability studies, benefiting industries such as medical, automotive, aerospace and defense.

FULL-SPHERICAL INSPECTION

Using eight high-precision laser line scanners, AM-Quality generates a complete full-spherical point cloud of the part surface. The software then compares this scan to the nominal STL or CAD model to identify geometric deviations with up to 50 µm spherical accuracy.

This method ensures consistent, objective inspection results-ideal for small batch runs, delicate materials, or parts that cannot be processed through the inline version.

EFFORTLESS OPERATION

The system is designed for operator-independent performance, ensuring consistent and objective inspection results.

Its intuitive interface and automated workflow mean that no intensive training is required to operate the system, enabling rapid onboarding and seamless integration into existing production environments.



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ADAPTIVE QUALITY ASSESSMENT

The AM-Quality standalone system is ideal for low-volume or prototype production environments, where flexibility and precision are essential.

It is particularly well-suited for inspecting highly sensitive components, as well as parts that cannot be processed through conveyor-based systems due to their geometry, fragility, or surface characteristics.

General information

- Takt-time: 6-12 seconds
- Accuracy: up to 50 µm
- Coverage: Full spherical

Product size

- Minimum size: 10x10x10mm
- Maximum size: 300x300x180mm

System

- Dimensions: 2000x1300x2400mm
- Weight: 850kg

Software

- The AM-Quality standalone module connects with AM-Logic™, enabling traceability, data management, and integration with existing IT infrastructure (ERP, MES).

Technical requirements

- Power supply: 120/230V ac switchable 50/60 Hz 5.0/2.0 Amps
- Connectivity:
 - Local area network with 100 Mb/s
 - 1 Gb/s Ethernet connection firewall clear for SSH:22



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REVOLUTIONIZING

AM-QUALITY

INSPECTION

Let's talk!

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