

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



High-resolution QC at production speed



Real-time pass/fail evaluation



5-10s takt-time



Detailed metrology reporting

INLINE QUALITY CONTROL

The innovative inline quality control solution provides a comprehensive range of assessments, ensuring automated full-spherical quality evaluation in under 10 seconds.

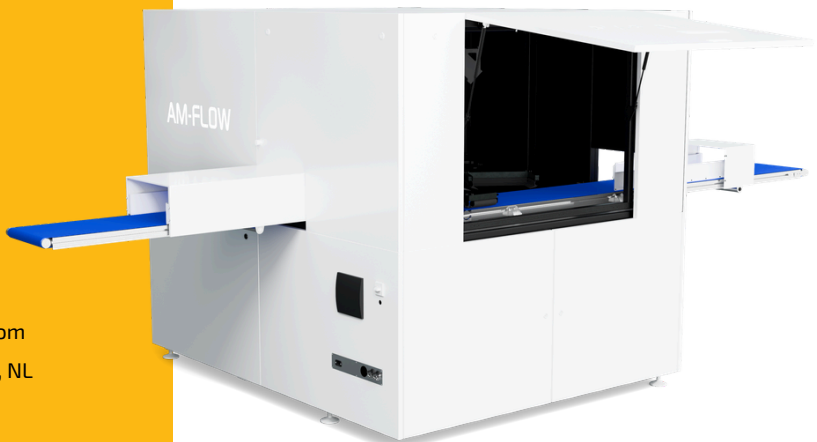
AM-Quality performs rapid, non-contact inspections by comparing each scanned part to its original digital file and automatically detecting deviations in shape, geometry, or volume for a quick Pass/Fail evaluation.

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.

HIGH-SPEED INLINE PROCESSING

The system offers full-spherical single-shot scans to detect dimensional deviations, volumetric defects, and other common manufacturing defects such as breakages, warpages or sink holes.

With an average takt-time of 5-10 seconds, AM-Quality allows for up to 720 products to be scanned and assessed per hour. The system is designed for operator-independent performance, ensuring consistent and objective inspection results without intensive training.



Let's talk!



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AM-QUALITY

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, delivering a rapid assessment and a full metrology report within less than 10 seconds.

General information

- Takt-time: 5-10 seconds
- Accuracy: up to 50 μm
- Coverage: Full spherical

Product size

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

System

- Dimensions: 2490x4940mm
- Weight: 1500 kg

Software

- AM-Logic integrates all AM-Flow modules with existing IT infrastructure, including ERP and MES systems, providing a cohesive digital backbone for efficient factory operations and full traceability of products

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

✓ **QUALITY**

INSPECTION

