nLine
powered by WAHTARI

The latest generation of
visual quality inspection

nLine inspection system for extruded and other
cylindrical products

Precision with
AI-enhanced vision

The *nLine* inspection system analyzes a wide variety of products and their quality during ongoing production or individual inspection. Three high-speed cameras continuously monitor the entire product surface during the whole production run. Deviations are flagged and documented.

The system is available in different versions and can be adapted to a wide range of requirements. Analysis and evaluation using Artificial Intelligence are performed on the Edge, without needing to be connected to a cloud environment, for the highest performance, lowest latency, and best data security. Implementation does not require any specialized training or technical background. Product features are taught to the system using the "Teach & Go" principle from a master sample.

360° analysis
The entire product surface can be analyzed

AI processing at the terminal
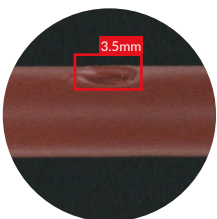No cloud environment needed

Train with master samples
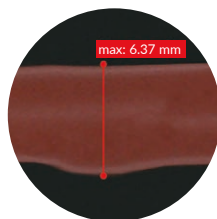You determine your highest quality product
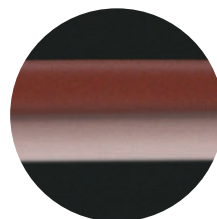
Suitable for cylindrical products
Cable, wire, tube, hose, conduit

Surface examination
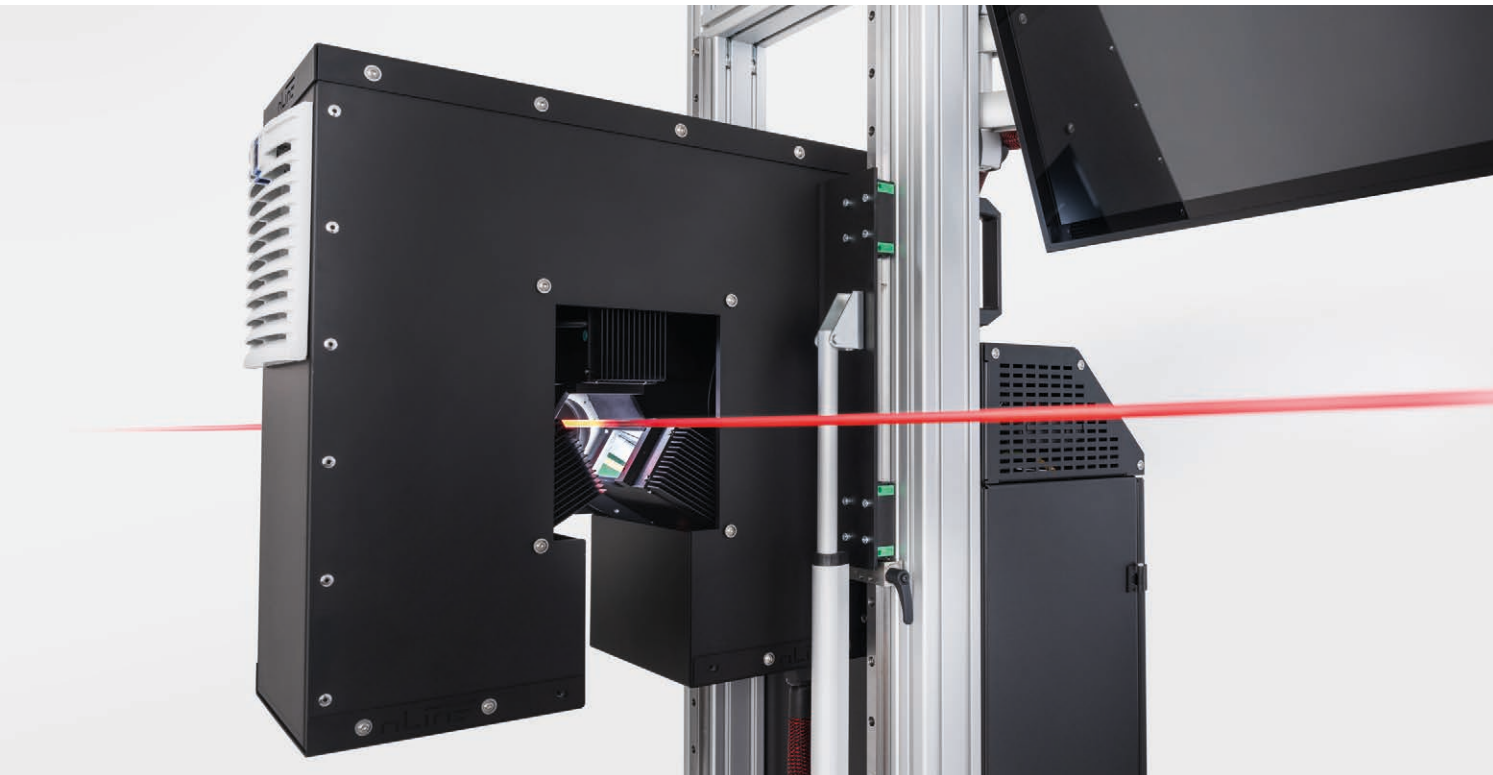rough/scratched surfaces, dents, cracks, deformations, cuts

Diameter control
diameter deviations

Color control
monochrome, multicolored, gradients, spirals
available soon

Imprint analysis
print legends, lettering, serial numbers
available soon

Functionality of

nLine inspection solution

Specifically developed for manufacturers of extruded products, *nLine* enables the inspection of many different features in a single compact device. Performing multiple-point quality assurance testing on a single platform reduces capital testing equipment investment and maintenance costs as well as integration efforts.

Technical highlights

Product diameter | speed
From 0,5–30 mm | Up to 500 m/min

Ready for use 24/7
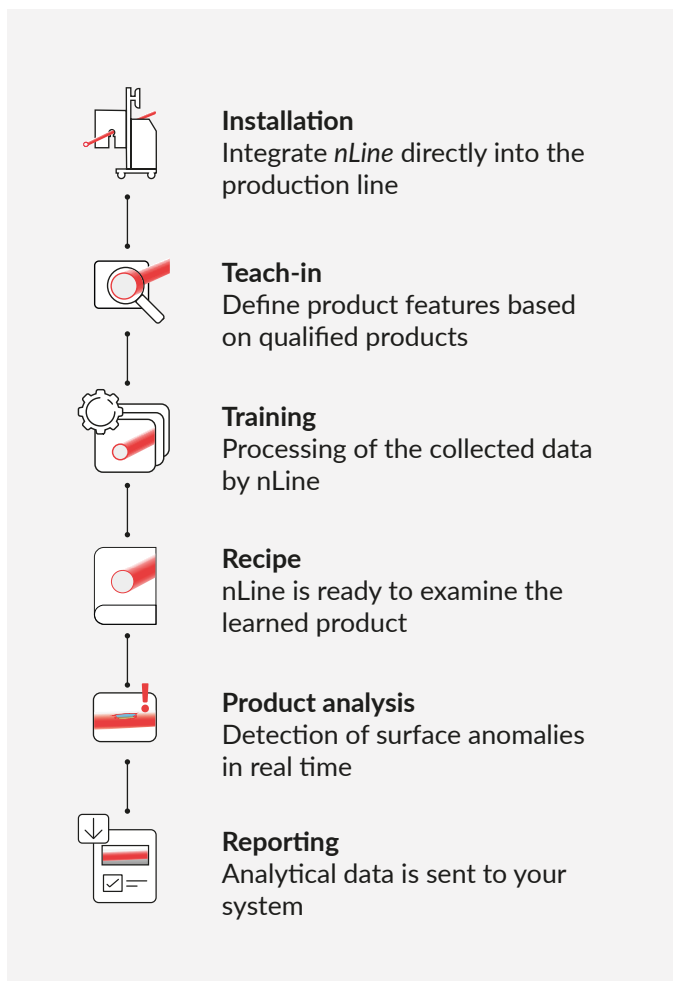Operating temperature 5–45 °C | Humidity 0–90 %

Low maintenance
Only occasional cleaning required

End-to-end solution
All in one device: Reduce investment & maintenance costs

Seamless Connectivity
Profibus, Profinet, OPC UA, HTTP/TCP IP

Installation
Integrate *nLine* directly into the production line

Teach-in
Define product features based on qualified products

Training
Processing of the collected data by nLine

Recipe
nLine is ready to examine the learned product

Product analysis
Detection of surface anomalies in real time

Reporting
Analytical data is sent to your system

About us

As a software and hardware developer, we offer complete solutions for optical quality control in the production of cables, wires, pipes, ropes and hoses.
With a passion for innovation and new technologies, we have made it our goal to set new standards in visual inline inspection and create first-class devices for your success.

Get in touch

Would you like to make your company future-proof with the latest technologies?

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www.nline.ai