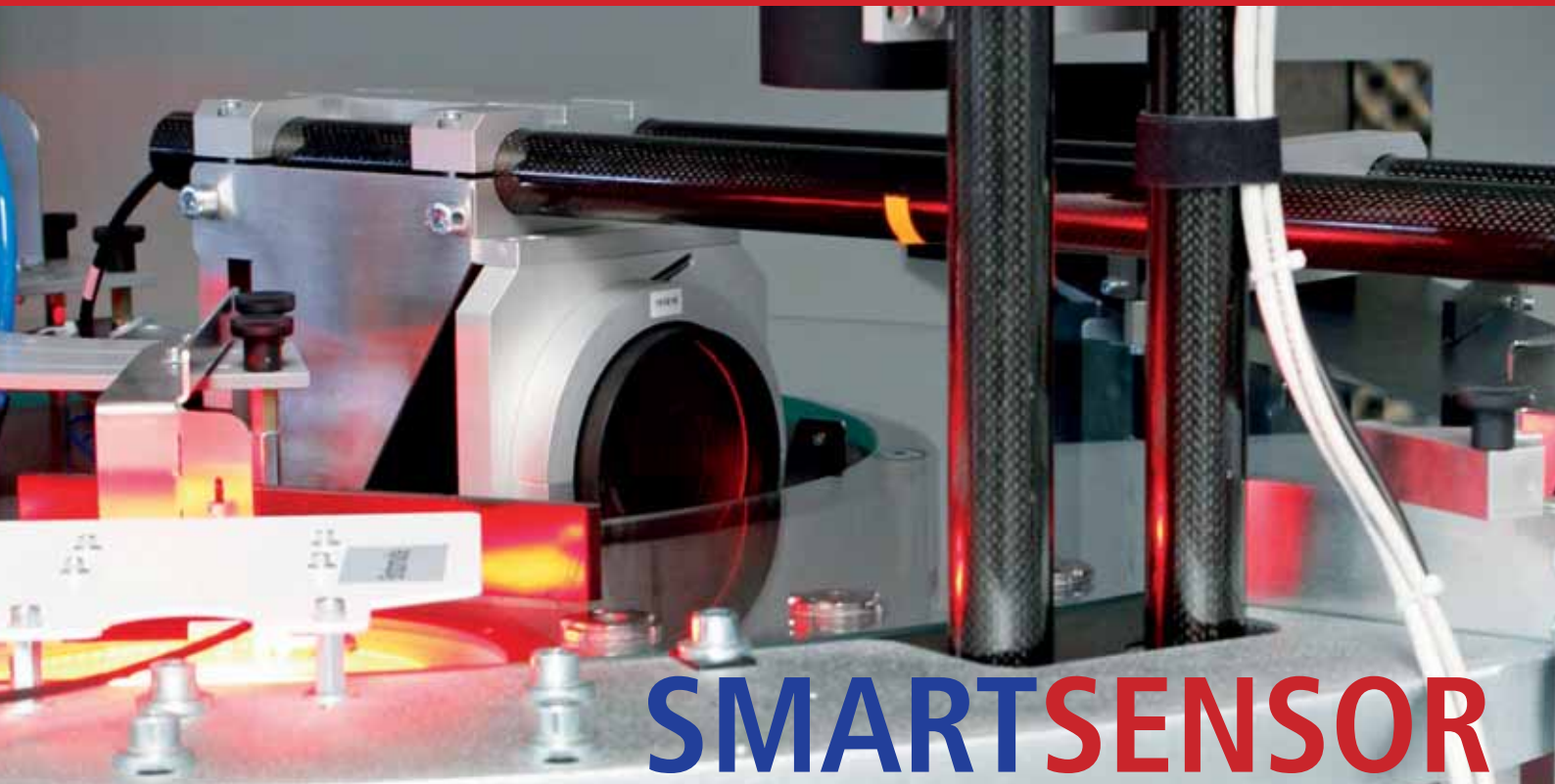




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SMARTSENSOR

Inspection and Measurement Sensors adapted to Your Needs

As a reply to individual requirements for direct integration into your production or assembly lines, NELA Brüder Neumeister GmbH unveils a series of independent, high-performance sensors for inspection tasks. To ensure more versatility, the sensor illumination levels are programmable for an accurate and targeted exposure of your parts. In conjunction with a customizable field of view, the high-performance sensors support high-precision geometry-measurement and surface inspection of your parts.

The integration of NELA VisionCheck image processing and control software in the machine network guarantees the exchange of statistical information, which ensures early detection of occurring fluctuations in the manufacturing quality.

An efficient implementation of extensive inspection allows for multiple sensors to be integrated in a production or assembly line.

Smart Sensor at a glance:

- Suited for different types of materials such as metal, rubber, plastics, ceramics and sintered parts
- For different part shapes and geometries in a size range from OD 5mm to OD 80mm
- High-precision measurement and 3D contour check
- Defect inspection with an accuracy of $\pm 1\mu\text{m}$
- Customer-specific image processing solutions
- Connection to your control system
- Integration of multiple NELA Smart Sensors possible

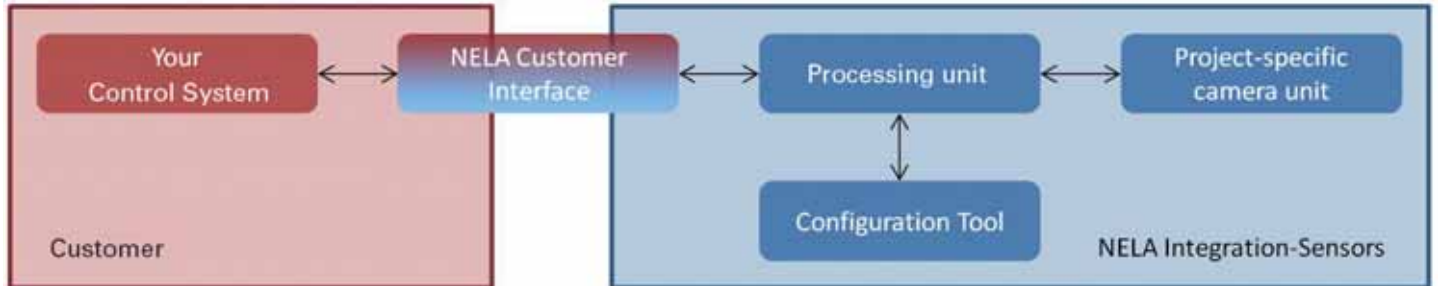
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Through an individual selection of modular image processing algorithms, every sensor is tailored to your individual inspection task. This guarantees an optimum analysis. As an inline solution the sensors can be linked easily to your control system; each sensor consists of 4 components:



Examples of NELA Smart Sensors:

Height Measurement



Topside Surface Inspection



About NELA:

With 75 years of tradition in high-precision machine manufacturing, originally as a supplier for the Graphic Arts industry, the family-owned company Brüder Neumeister GmbH located in Lahr / Black Forest is today also a leading system supplier for inspection equipment in the rubber, plastics, compound and sintered metal industry. With 200 employees, more than 5000 m² of production area, an own, independent development department for industrial image processing software, as well as a high degree of vertical integration in manufacturing, NELA makes sure that your inspection requirements will be fulfilled - today and in future, worldwide.



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