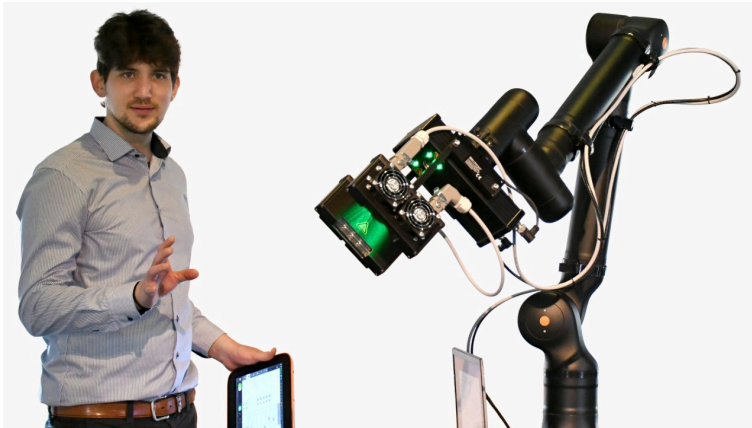


PRESS INFORMATION

Perfect lightweight parts

Manuela Kessler | 06.11.2023 | Lohr am Main / Germany | PI 056/23

Inspection system from TENTA VISION reveals defects in real time



Genuine teamwork: Equipped with Rexroth aluminum profiles, a lightweight robot from Kassow Robots and connecting parts from the PTS Group, the TENTA VISION inspection system can be used in a wide range of applications. (Image source: TENTA VISION)

TENTA VISION GmbH would like to make it as easy as possible for customers to inspect materials and components. Its new inspection system which is based on a patented optical-interferometric measuring device uses components from Bosch Rexroth, Kassow Robots and PTS Group GmbH. The compact system reveals internal and external defects in lightweight parts – contactlessly and in real time.

The new inspection system comprises an excitation and control unit, a computer and intelligent automation software, and it can be deployed quickly. Possible applications range from vehicle construction and the aerospace industry to energy storage and many other sectors. The technology is used to inspect a wide range of lightweight materials and components.

A 7-axis lightweight robot from Kassow Robots moves the measuring device to the desired position – Bosch Rexroth had acquired a majority stake in the Danish company in 2022. PTS supplies the robust subframe made from Rexroth aluminum profiles which was designed to fit through doors 90 cm wide. PTS produced the connecting parts from high-quality Onyx filament material using a 3D printer. Onyx is a durable PA6 with micro-carbon fibers that is 1.4 times stiffer than ABS thermoplastics and offers high surface quality and heat tolerance.

The PTS Group is one of around 60 Bosch Rexroth Certified Excellence Partners. As local contacts, certified partner companies such as PTS provide customers with support in the form of readily available products, their own engineering services and/or comprehensive servicing.

Basic Information Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile and Industrial

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Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries more than 32,000 associates generated sales revenue of around 7.0 billion euros in 2022.

Basic Information PTS Group GmbH

PTS Group GmbH is a constantly growing and innovative system provider that is focused and learning as it moves into the future. With two locations in Dormagen-Hackenbroich and Schalksmühle and a team of 150 dedicated associates, the focus is on optimal and comprehensive customer support in production technology, industrial hydraulics, fluid and drive technology. PTS Group offers not only products and solutions but also comprehensive services by a large and competent engineering team as well as a field service team which provides comprehensive on-site service for customers, especially in the area of fluid technology. As a premium contract partner of the technology leader Bosch Rexroth AG, PTS has the complete product range of assembly, tightening technology, transfer and linear motion technology. In addition, the new partnership with Kassow Robots (cobots/robots) has been in place since 2022.

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