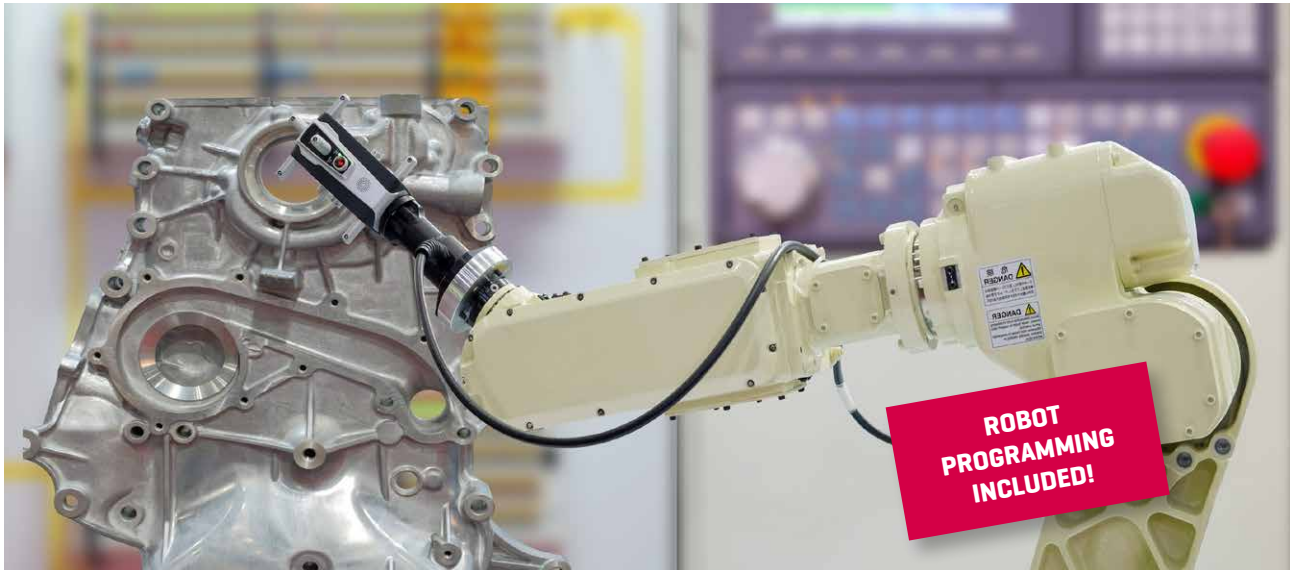


ROBOT-LED OPTICAL TESTS

For the quality monitoring of large, complex and varied assemblies



Static test systems with fixed cameras are usually inadequate for the quality monitoring of large, complex and varied assemblies. Modern image processing systems for test systems in modern production are increasingly used directly on the production line.

2D and 3D Robot Vision Systems combine the flexibility of industrial robots with the capacity of image processing systems.

Your benefit:

Surface inspection:

- + **100% quality control** for the production of workpieces at consistently high quality, independently of the operator and reliably.
- + High-resolution cameral systems examine your workpieces precisely and **recognise the smallest defects.**
- + The **high rate of examination** allows self-sufficient or line-integrated, cycle-suitable inspection.

Component examination:

- + The control and examination of component specific characteristics with robot-led, optical component examination allows the **fast examination of different test characteristics at different positions on the component.**

ROBOT-LED OPTICAL TESTS

Complex parts and geometries of different sizes and condition can be identified and examined optically, positions and 3D locations determined and different production types automatically recognised. A camera/vision sensor/3D measurement head can thus be used **at different testing locations with different camera parameters.**

Example weld testing:

Automated welding is state of the art in many sectors of industry these days. The quality of the welded joints is, however, almost always still evaluated visually by specially trained workers.

Optical, robot-led 2D and 3D weld examinations allow a fully automatic, time and cost efficient weld examination. The necessary personnel requirements are reduced and the natural, human rate of error is ruled out.

Example glue bead examination:

The volumes, application areas and form of glue beads can be determined and measured by robot-led, 3D examination. The glue bead is controlled for height, width and position directly following application **with the same robot**, using a 3D measurement head.

Our service:

+ Image processing systems

+ Engineering adaptations

+ Complete test cells with NOK ejection

+ Robot integration

EVERYTHING FROM A SINGLE SOURCE

Thanks to our integration into the **PÜTZ GROUP** and the resulting **synergy effects** we are able to offer you solutions beyond simple image processing: from camera integration through the test cell to a complete automation solution.

**Innovision GmbH
Zentrale Saarburg**

Am Saarufer 8
54439 Saarburg
GERMANY
Phone: +49 6581 9299-0
Fax: +49 6581 9299-29

**Technology Centre
Limburg**

Lindenstraße 3
65555 Limburg-Offheim
GERMANY
Phone: +49 6431 285650-0
Fax: +49 6431 285650-29

info@innovisionsystems.de
www.innovisionsystems.de