

PC & Industrie

10/2025

UNOFFICIAL ENGLISH TRANSLATION

The original article was published in German in PC & Industrie, a trade magazine published in Germany. Prepared for CRETEC. The German original remains the reference.

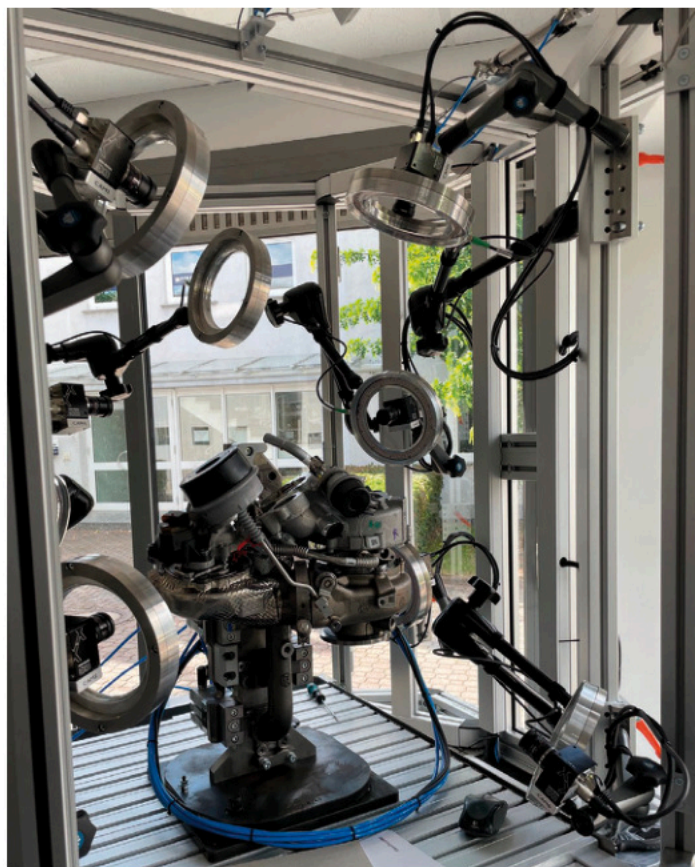


Reliable development and installation of machine-vision applications

Designed archive cover. The adjacent Bi-Ber article is unrelated to CRETEC and remains in German. Original publisher artwork, logos and advertisements are retained in their original language.

Reliable development and installation of machine-vision applications

Accelerated feasibility studies and significant time savings through faster, simpler installation of complex machine-vision applications.



CRETEC GmbH
www.cretec.gmbh

The consistently modular system architecture of the QBIC cell concept enabled a particularly space-saving stand-alone or integrated solution to this complex

machine-vision task, with a high degree of flexibility and automation. The many practical benefits in smooth industrial operation significantly shorten the payback period.

Another added value in the complete development and turnkey installation of highly automated machine-vision solutions is that Cretec GmbH is the only company in Europe to be an ISO-certified expert in industrial machine vision.

Space-optimised all-rounder

The mobile QBIC platform, with its small footprint and modular hardware and software, ensures exceptional flexibility for complete vision-system solutions. Modules with a broad range of capabilities are integrated directly into an autonomous system encompassing robotics, control, data analysis and communication.

Good access and outstanding flexibility

The patented hexagonal design of the QBIC platform provides excellent access from all sides and great flexibility in designing particularly

space-saving, mobile system solutions. Integrated retractable wheels allow it to be transported quickly for delivery or relocation and connected compactly to other QBIC units.

Equipment

Integration options include electrical equipment, controls, a high-performance PC, cameras, the VisionTube code verifier, a cobot or robot, different vision modules, intelligent lighting, a large touchscreen monitor, Industry 4.0 communication modules, OPC UA, IOTA and neural networks.

A mains-independent power supply maintains operation even during a power failure, preventing data loss. Integrated high-performance PCs also make these system solutions suitable for complex AI tasks using deep learning.

Applications

Complete QBIC solutions cover a broad range of applications: pick-and-place, registration and classification tasks, ID codes, inspection, 2D and 3D measurement, surface inspection, decision-making and sorting processes.

Feinste Prägungen klar sichtbar gemacht

Der Bildverarbeitungsexperte Bi-Ber hat ein Kamerasystem zur Visualisierung von Prägungen auf reflektierende Oberflächen entwickelt.

Anforderungen

Verschiedenartige Prägungen müssen sichtbar gemacht werden: Hoch- und Tiefprägung mit minimal 10 µm Höhenunterschied zum Trägermaterial und unterschiedlich große und feine Strukturen mit minimalen Strichbreiten von ca. 40 µm.

Die Visualisierung dient zur Prüfung auf Anwesenheit und Vollständigkeit von geprägten Schriftzügen und Grafikelementen.

Bi-Ber GmbH & Co. Engineering KG
www.bilderkennung.de

