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Multitalent im präzisen Teile-Handling



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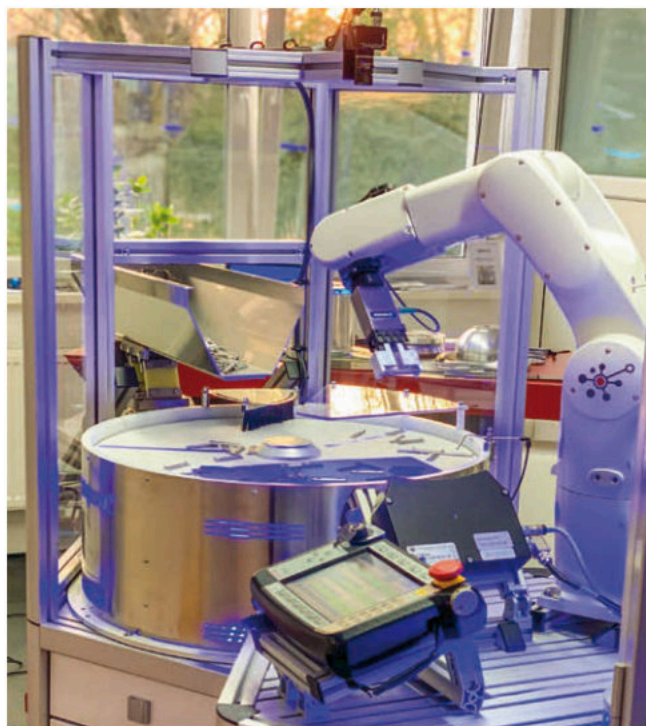
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A versatile solution for precise parts handling

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A versatile solution for precise parts handling

Intelligent parts feeding - robust, flexible, reliable



A QBIC station combined with FlexiBowl performs 3D inspection of aluminium die-cast parts for planarity, protrusions and recesses, and surface inspection for voids and damage.

Optimised feeding performance, both in quantity and quality, for a wide variety of parts combines with intelligent control to meet even tomorrow's complex requirements. Sustainable project engineering relies on

rapid configuration rather than programming. Increasing digitalisation and rising performance demands on automation components and modules require the best possible functionality for maximum flexibility. Since February 2020, Cretec has

held exclusive distribution rights in Germany for the FlexiBowl parts feeding system from the Italian company ARS.

Solve complex tasks quickly

Combined with different robots or cobots and a powerful vision system, FlexiBowl can sustainably handle many complex tasks with frequent product changes and high flexibility. It offers a simple, reliable turnkey solution for clean and dirty environments across all industries. The family of feeding units reliably handles even sensitive parts measuring 1 to 250 mm and weighing 1 to 250 g. One or two motor-driven magazines deliver parts precisely to the rotating circular vibrating unit. Even delicate components are reliably separated, and an air blower keeps them safely away from the edge.

Precise part and position data

The rotating disc is available in different colours, textures and levels of surface grip. Integrated backlighting or top lighting uses infrared, red or white options. Another

possibility is to install Cretec-developed LED boards in arbitrary geometric arrangements. They can be controlled individually in continuous or strobe mode and offer the full RGB spectrum. The integrated vision system provides precise part and position data relating to geometry, surface properties, material condition and weight for safe robot gripping. All this comes in a slim design with simple, intuitive programming for vision-based quality control and precision assembly.

Fully automated work platforms with cobots

Cretec GmbH also supplies this modular solution integrated into application-specific complete solutions based on its QBIC system: a new generation of mobile, fully automated work platforms with cobots or agile robots. Different modules, each with a broad range of capabilities, are combined in control, communication and analysis into an economically attractive, fully automated, autonomous system requiring minimal space. These highly flexible systems fit through any office door.

CRETEC GmbH
www.cretec.gmbh

Kompaktes Feinpositioniersystem für Industriekameras

autoVimation bietet mit seinem neuen Positioniersystem eine besonders kompakte Lösung für die präzise Ausrichtung von Kameraschutzgehäusen. Das Herzstück des modularen Systems bilden Feinpositionierachsen mit 150 mm Hub. Ihr handkurbelbetriebener Vorschub gewährleistet mit 1,5 mm pro Umdrehung höchste Einstellgenauigkeit. Die Achsen fallen schlanker aus als herkömmliche Modelle, da ihr Spindelkanal mit Schwalbenschwanzprofil zugleich als Gleitführung für die Schlitzen dient. Mit 40 mm x 16 mm ähnelt ihr Profilquerschnitt dem einer Streichholzschachtel.

Umfassende Zubehör

Zur freien Positionierung der Kameras in beliebigen Stellwinkeln gestattet das umfas-

sende Zubehör an Profilschienen, Drehachsen, Winkeln und auswechselbaren Positioniertischen für senkrechte oder achsparallele Montagen den raschen Aufbau mehrachsiger Anordnungen. Anders als bei marktüblichen Produkten sind dafür keine Adapterplatten erforderlich, da alle Komponenten von autoVimation einheitliche Profilsysteme verwenden – Kameragehäuse oder weitere Achsen lassen sich mit Schwalbenschwanzklammern direkt an den Positioniertischen montieren. Für die ergonomische Handhabung in jeder Lage sind die Vorschubkurbeln je nach Bedarf links- oder rechtsseitig montierbar.

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