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UNOFFICIAL ENGLISH TRANSLATION

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Austromatisierung Sonderteil Produktneuheiten 2020 Hochflexibles Cobot-Vision mit IOTA



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Highly flexible cobot vision with IOTA

German-language Austrian product supplement. Historical safety, IOTA and availability claims are retained. The printed supplement identifies 1/2020; the supplied archive records May 2020, which is not a confirmed publisher release month. Original publisher artwork, logos and advertisements are retained in their original language.

Highly flexible cobot vision with IOTA

The new QBIC station from CRETEC opens up entirely new possibilities for complete, efficient vision solutions across manufacturing and business models in human-robot collaboration, based on a universal Industry 4.0 platform and the highly scalable IOTA communication protocol.

Compared with conventional robots, sensitive collaborative cobots can cooperate directly with people without elaborate protective equipment such as enclosed cells. Their sensitive sensing technology opens up high safety standards in collision detection and management through sensors, evaluation electronics, communication and control. Quickly and easily installed, their versatile three-dimensional motion enables a broad range of new applications.

The modular QBIC systems are a new generation of mobile, fully automated work platforms that are particularly easy to operate, very fast and individually deployable. The entire system occupies just 0.8×0.8 m and stands 2 m high. It integrates electrical equipment, controls, a PC, cameras, vision modules, intelligent lighting, communication modules, a monitor, a robot and an additional independent power supply. A QBIC station can be unplugged and moved immediately to a new location while remaining fully operational.

Conventional blockchain capabilities are severely restricted in the Internet of Things. By contrast, the IOTA protocol provides fully automated, almost completely secure IoT communication with high performance between many machines. The platform is based on a new distributed ledger technology (DLT) called Tangle. This underlying technology operates in a decentralised network, is verifiable and allows immutable data to be used by multiple parties simultaneously and in parallel. It makes large data volumes securely available to many users. Everyone can verify precisely who provided which information and when. The QBIC station implements an interface offering pay-per-view/pay-per-production via IOTA (www.iota.org), or permanent, immutable archiving of captured data in the Tangle.

Availability of the new QBIC solution: immediate.



About CRETEC

CRETEC develops, manufactures and distributes high-performance modules and complete solutions for industrial machine vision, code reading, intelligent LED lighting and cobot



Link to the Cretec website.

vision. Their technical basis is networked digital communication on Industry 4.0 platforms, extending to integrated IOTA communication. They combine compactness, powerful hardware and software, robustness for harsh industrial environments and, above all, extremely simple operation. The extensive portfolio is complemented by effective know-how for industry-specific applications with

short development times.

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