AUTOMATION

for complete tool measurement incl. robotics, software and storage systems

KELCH

Pioneer for precision and efficiency

The next Industry 4.0-compliant development stage for machining companies: KELCH offers a total modular concept with the KENOVA set line tool presetters in cooperation with Bachmann Engineering, experts in turnkey robot cells and automation solutions, as well as MySolutions, an all-in-one provider in the area of smart factory automation.

The benefits for you:

- Use on existing machinery and a modular introduction in small steps depending on the budget and situation
- Automation options: cleaning, shrinking, assembly, balancing, measuring and storage of the tools
- Monitoring of all processes thanks to the safety features: automatic detection of spindle insert, control of all critical statuses and media (air, current, temperature etc.) and remote maintenance via IoT
- Optimised use of resources thanks to the integration of a 2D.ID identification solution, THE BOX storage system as well as mobile and stationary MyXPert® software products
- Collaborative robot on a mobile platform is responsible for loading and changing tools on the KELCH tool presetters
- Combining the tool presetter with the MyXPert® ToolManager enables the entire tool presetting process including robots to be controlled

In cooperation with MySolutions AG | mysolutions-group.com
and Bachmann Engineering AG | bachmann-ag.com

MY Solutions
IT simplifies industry.

bachmann engineering ag
AN IMR GROUP COMPANY

Demonstration from the Swiss showroom

Simply scan the QR code with your smartphone and view the video!
Using the example of the KELCH KENOVA set line V3 tool presetter, the entire tool cycle with robot support is presented in a modern smart factory.

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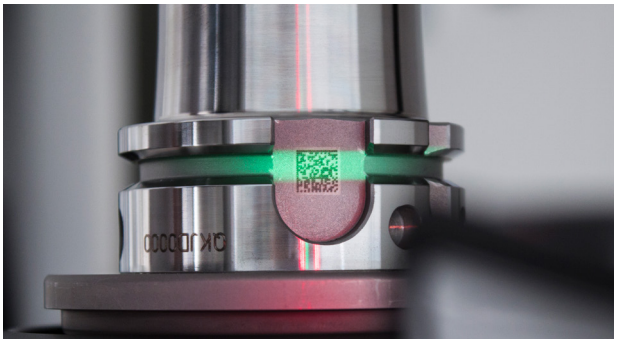
Automated complete tool measurement

The entire tool presetting process including robots can be controlled from a tablet and with all common operating systems by combining the KENOVA set line tool presetters with the MyXPert® ToolManager from MySolutions.
The Bachmann Engineering AG UR10e Cobot supports the tool measurement process through automatic loading and unloading processes – either controlled by a tablet or by visual detection.

2D.ID identification

The 2D.ID code is scanned and the measuring specification is transmitted to the system during the tool measurement process. The measuring results achieved are saved and the tracking data is monitored by the MyXPert® ToolManager.



MyXPert® ProductionManager

Enables work scheduling personnel to technically and visually merge all administrative data and information (e.g. orders/workflows, resources, NC programs, tool correction data, tools, test and measuring equipment). This also applies to data from existing third-party systems, such as ERP/PPS, MES, PLM etc.

MyXPert® Terminal

Flexible and modular shop floor management system. Production personnel receive all production-relevant information on all operating resources (products, tools, equipment, measuring/test equipment etc.) on a central user interface directly at the machine.

MyXPert® Framework

Provides an intelligent open platform for the central integration, control and monitoring of existing third-party systems (IT systems, machines and installations etc.) within individual production processes.

Automated warehouse management

A valuable addition to automated production is the vertical storage system known as THE BOX. It is designed for the weight-independent storage of small and mid-sized products, and optimises the use of floor space in the storage area.

Mobile, stable and flexible platform: Bachmann Movable Base (BMB) with a collaborative robot

Specially designed for use with the Cobot from Universal Robots, the solid base has enough space to accommodate the robot controller. The lifting rollers ensure that the platform is standing firmly even at higher speeds. Equipped with many options, the BMB meets the flexible requirements of businesses.

The additional automation is useful for medium-sized to large companies with their own CNC production. The basis of this is the BMB, specifically for collaborative robots, which is flexibly equipped and can be moved to wherever it is needed. Each platform is equipped with a UR10e robot including a gripper for tool holders positioned directly downstream of the respective KENOVA set line tool presetter to equip and change tools on the tool presetters.

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