



Press Release

Thursday, 2. November 2017

Baumüller at FMB – Supplier trade fair for mechanical engineering

At FMB 2017, Baumüller will introduce complete solution packages and industry-specific components

From November 8 to 10, 2017 Baumüller will present its product range for drive and automation technology at FMB, the supplier trade fair for mechanical engineering, in Bad Salzflen in hall 20 at booth E9. The exhibits, consisting of its converters and motors, including its control technology, modular software and services, will highlight both its broad product portfolio and the large number of versions that are possible using standard components, for example for material handling systems. As a system supplier, Baumüller configures both the hardware and software according to customer requirements to ensure a smooth integration process.

In its hardware and software development, some of which features web capability and a variety of interfaces, Baumüller always considers the networking of the machines and systems. The automation specialist from Nuremberg will present a product portfolio to get new and existing machines fit for Industry 4.0.

Product Highlights

A new product in the field of drive electronics is the multi-axis controller b maXX 5800, which will also be presented at FMB. The compact controller for up to six drive axes can be configured individually and fully flexibly. This means that users can freely combine axis powers in the controller. They can also integrate the exactly right axis power for every single axis. The result is a device that meets the requirements of their applications perfectly.

The decentralized servo drive b maXX 2500 can be used, for example, for robotics and handling applications across industries and therefore for numerous industrial applications. The solution impresses with a low wiring effort and high flexibility and is available in three installation sizes.

With the b maXX PCC-04, the new generation of box PCs, Baumüller is providing a new scalable and versatile control platform to users. The industry PC can be flexibly expanded, thus allowing for an individual machine design.

An innovation in the field of service is BAUDIS IoT, a system for the process optimization and for the predictive maintenance system of existing and new machines. BAUDIS IoT is the consistent enhancement of the BAUDIS diagnostic system developed by Baumüller, which has successfully been in use for more than 20 years. BAUDIS increases the process reliability and availability of production and is successfully used worldwide in machines and plants.

Complete solutions from Baumüller

The six-axis articulated-arm robot from Baumüller is an example of a complete solution. This is driven by six DSH1 high-precision servo motors and is controlled by the box PC b maXX PCC-04. The DSH1 motors were developed specifically for applications with the highest standards of quality and smooth operation and score with an almost unnoticeable detent torque.

A 3-axis handling is another example. The complete package consists of the control hardware as well as the complete software and visualization, frequency converters and servo motors. The frequency converter and servo motors can be freely selected depending on the customer application. With the comprehensive software library, the mechanical engineer receives a handling unit with numerous functions only through parameterization and thus with the smallest amount of effort. The mechanical engineer can either integrate the complete system into the machine already during the development or simply retrofit it.

Lifecycle management 4.0 worldwide

In addition to developing and manufacturing automation components, Baumüller as a corporate group also covers numerous services for machine and systems construction as well as for machine operators. Starting with the project planning, design and commissioning all the way to maintenance, retrofitting and relocation, Baumüller offers support throughout the entire life cycle of machines and systems.

Complete system solutions

System engineering

- Engineering Framework ProMaster
- Technology libraries of the "Coordinated Motion" sector

Machine visualization

- Industry touch display
- User-friendly web-based visualization

Control engineering

- b maXX PCC-04 for high power

Drive engineering

- b maXX 5000 modular system with integrated Drive Connect System
- b maXX 2500 with safety technology
- DSH2 servo motors for high-dynamic applications

System engineering

- Engineering Framework ProMaster
- Technology libraries of the "Coordinated Motion" sector

Machine visualization

- Industry touch display
- User-friendly web-based visualization

Control engineering

- b maXX PCC-04 for high power

Drive engineering

- Multi-axis controller b maXX 5800 for the control of up to six drive axes
- DSH1 servo motors with low detent torque

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Fig. 1: From special technology modules to the box PC to control technology and drives for robotics, Baumüller provides complete solutions for material handling and robotics applications, such as the handling unit or the welding robot



Fig. 2: With the b maXX PCCo4, the new generation of box PCs, Baumüller is providing a new scalable and versatile control platform to users

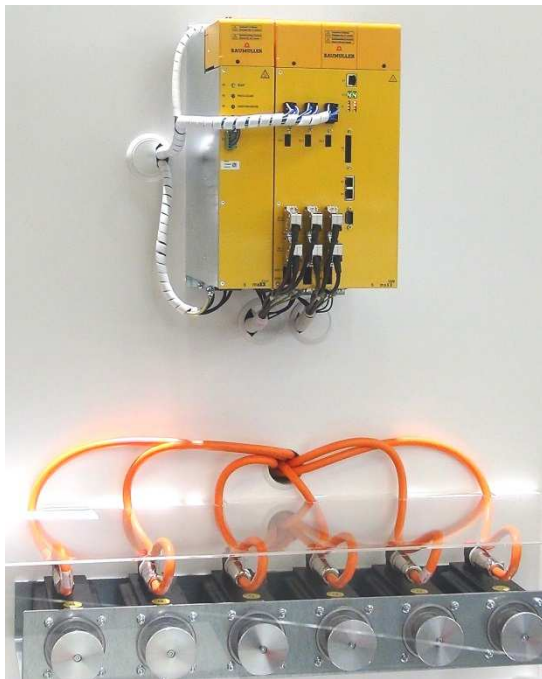


Fig. 3: The multi-axis controller b maXX 5800 (above) contains up to six scalable axes, which makes it a particularly compact solution for machines with several drives. The new DSH1 servo motors (below) were developed specifically for applications with the highest standards of quality and smooth operation and score with an unnoticeable detent torque



Automation solutions for 3-axis or multi-axis systems

<https://youtu.be/Z-a0V6bJ0uo>



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Baumüller is one of the leading manufacturers of innovative automation and electric drive systems. At six manufacturing locations and over 40 subsidiaries spread all over the world, 1,750 employees plan, develop, produce and install intelligent system solutions for mechanical engineering and e-mobility; from operation and visualization tools to Motion Control software as per PLCopen, from software modules to controllers, also including converters, electric drives and the whole service range for ready to use automation solutions. The areas service, installations, fitting, and relocation add to the wide range of Baumüller's services. In the mechanical engineering industry, Baumüller is one of the leading partners for automation solutions worldwide.

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