Press Release

Perfect Motion for Liquid Products

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

From September 11–15, 2017, Baumüller will participate in drinktec 2017, the world's leading trade fair for the beverage and liquid food industry in Munich. In hall B3 at stand 321, the Nuremberg-based drive and automatization specialist will present its specific industry solutions for the beverage industry: From a drive with an aseptic surface for transport tasks in the food sector to compact local drive technology for minimum wiring effort. In addition, a compact high-torque motor with extremely low self-heating as well as a stainless steel flange for easy cleaning will be presented.

Increased productivity due to the intelligent overall solution

The drive system ETAη drive will be the highlight at the Baumüller stand. The motor-gear combination achieves degrees of efficiency of up to 90 percent and is also ideally suited for aseptic applications, like in the beverage industry, duet o its surface properties. The ETAη drive will be in use on a transport and conveyor belt for beverage bottles at drinktec. Minimal overall installed size and high system efficiency characterize the gear motor ETA drive, which was specially developed for the food and beverage industry. The drive system is equipped with an aseptic, completely enclosed housing and is therefore particularly suitable for transport tasks in the food sector.

Service 4.0: Digitization Increases Availability

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.

BAUDIS IoT, the latest version, is an IoT-capable diagnostic and communication system that allows for a simple networking of machines and systems via the Internet and the intelligent analysis of data. The networked version benefits from the long-standing expertise of a successful system. The system can be used independently of the manufacturer of the automation components and the sensors and therefore can easily be retrofitted and upgraded. It is therefore equally suitable for greenfield and brownfield plants, i.e. for the digitization of new and existing production facilities.

BAUDIS IoT allows for the continuous monitoring of automation components and machine states, data recording and analysis and the generation and output of a recommendation for action. The evaluation always occurs with the latest available algorithms. The system is thus continuously made more intelligent and uses algorithms to develop independent solutions (machine learning). By

avoiding production errors, productivity increases and does so automatically through a self-regulating process.

Product Highlights

The b maXX 2500 decentralized drive, which combines the converters from the b maXX 3300 series with robust DSD, DSC and DSP servomotors, is especially suitable for filling systems with many individual drives. This compact drive with integrated electronics is suitable for a power range up to about 6.5 kW and includes integrated safety technology with the degree of protection IP 65. Thanks to a variety of supported fieldbus systems and flexibility in terms of its installation location, the b maXX 2500 offers mechanical engineers with a high degree of design freedom and allows for the realization of optimally adapted machine solutions.

A new feature in drive technology is the extremely compact high-torque motor DST2 80, which among other things is used as a drive of starwheel columns for container transport in filling machines in the beverage industry. The direct drive is thermally tightly encapsulated in a stainless steel pipe and impresses with very low self-heating and easy cleaning.

The networking of man, machine or sensors is increasing in the industrial sector. To protect industrial security, Baumüller offers a secure solution for the remote maintenance of machines and systems with Ubiquity: The state of machines can thus be monitored worldwide and quickly responded to in a targeted manner if necessary. This capability of quick and accurate diagnostics and troubleshooting saves time and money. Ubiquity thus increases the productivity and efficiency of machines. The Ubiquity runtime environment is pre-installed in all Windows-based HMIs from Baumüller and can be used without separate hardware.

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.

Mechanical engineers and machine operators at drinktec will have the opportunity to be consulted by service experts from the Baumüller subsidiaries Nürmont and the Baumüller repair facility on such topics as manufacturer-independent repair, servicing, relocation and installation. With over 40 branches worldwide, Baumüller is a globally reliable service partner with decades of local worldwide experience.

Fig. 1: In use on a conveyor belt with bottles: As a motor-gear combination, ETAη drive (right) achieves up to degrees of efficiency of up to 90 percent and due to its surface properties it is also suitable for aseptic applications, like in the beverage industry I Image left: 06photo/fotolia

Fig. 2: The extremely compact high-torque motor DST2 80 (right), which among other things is used as a drive of starwheel columns for container transport in filling machines (left) in the beverage industry. The direct drive is thermally tightly encapsulated in a stainless steel pipe and impresses with very low self-heating and easy cleaning I Image left: Krones

Fig. 3: BAUDIS IoT is an IoT-capable diagnostic and communication system that allows for a simple networking of machines and systems via the Internet and the intelligent analysis of data. Smart data analysis is used to avoid production errors and to increase productivity, all automatically through a self-regulating machine learning process

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Based in Nuremberg, Baumüller is a leading manufacturer of electric automation and drive systems. Around 1,750 employees are planning, developing, fabricating and installing intelligent system solutions for mechanical engineering and e-mobility at six production locations and 40 branches worldwide – from the user interface to

motion control software as per PLCopen, software modules and controls all the way to converters, electric motors and the entire service program for automation solutions.

Baumüller's full range of services also includes the areas of service, installation, assembly and relocation. Baumüller is one of the leading automation partners in mechanical engineering worldwide.

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