

Press release – News

Motek 2017: BalTec presents their latest product «ELECTRIC» – the electromechanical module for riveting, joining and cold forming

Pfäffikon (Zürich), September 25th, 2017 – BalTec presents its latest development ELECTRIC – the module for efficient and precise riveting and cold forming as well as for joining processes at the Motek. The fair will take place from 9. to 12. October. This novelty will also be shown at the Assembly Show, Chicago from 24. to 26. Oct. and at BlechExpo from 7. to 10. November, also in Stuttgart.

BalTec ELECTRIC has been completely redesigned to meet customer requirements with regard to process speed, precision, form factor and flexibility. The basis was the radial forming method. Equipped with state-of-the-art servo technology, suitable for INDUSTRY 4.0, this innovation represents a milestone in the development of high-quality radial & wobble riveting technology.

Resource optimization by means of energy-efficient production resources, integrated quality assurance with traceability of the process data as well as dynamically adaptable production processes are key factors to achieve efficiency– and quality gains in modern production environments quickly and reliably.

BalTec ELECTRIC

BalTec's core competence is to provide solutions for joining of components. While applying the radial forming method, in combination with linear motion to and from the work piece and integrated rotational drive, the radial & wobble riveting technique is revolutionized. The technology of the servo presses has been transferred to this particular joining and forming method. It allows producing permanent mechanical connections with the highest speed and precision.

The electromechanical riveting and forming module offers to users the following benefits, as compared to conventional products:

- Lower energy and maintenance costs due to the purely electromechanical drive
- Thanks to the slim design, more compact systems can be built and thus capital costs can be reduced
- The production output is significantly increased thanks to dynamic feed and rotation speed as well as flexible programming of the motion profile
- The process-integrated quality assurance allows early detection of faults
- Process data can be stored in a customer-specific manner to ensure complete traceability.
- The process head has been designed to be interchangeable so that different processes (radial riveting, tumble riveting, reaming, joining) can be accommodated with the same basic unit.

The ELECTRIC has a stroke of up to 100 mm and a maximum linear speed of up to 140 mm / sec. The drive for the rotary movement can be variably adjusted up to a speed of 3000 rpm and is designed for a forming force of 3 to 15 kN. The flexibility allows programming of individual forming profiles. Sensors for monitoring stroke, force and temperature are integrated in the unit. The logic and safety modules, the motor drives as well as the common interfaces Ethernet / IP- & USP are installed in the control

package. This ensures today's industrial standard with remote maintenance and readiness for INDUSTRY 4.0.

The basic package includes the electromechanical unit with control cabinet as well as the specially developed «HPPi» software. The software works on any Windows 10 PC. As an option, a 10.4 inch PC monitor with preinstalled software is also available.

Different configurations - whether modular and compact as a unit, ideal for integration into automated lines, or as a stand-alone working cell (CE) - are available as standard configurations.

CLASSIC HPP

In addition to the new product ELECTRIC, the BalTec booth will also show the classic riveting machine products, proven technology for many years – some equipped with the innovative Process Control HPP-25. The compact rotary table riveting machine RNR with autcycle and automatic OK / NOK part unload, as well as the roller forming cell round off the product range.

BalTec at the Motek 2017, Stuttgart
at the Blechexpo 2017, Stuttgart

Hall 4, Booth 4207
Hall 8, Booth 8000

October 9th – 12th 2017
November 7th – 10th 2017

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BalTec Group

The core competence of the BalTec Group, headquartered in Pfäffikon (Zurich), is the production of machines for joining technology - especially for radial riveting technology, but also for wobble riveting, roller forming and joining. Already in 1968, BalTec, then known as Bräcker, introduced the radial riveting technology in various industries. Today, the company is the world's leading company in joining technology and has its own locations in Switzerland, Germany, USA, UK, France, Brazil and China with around 60 employees and 40 sales partners on all continents.