



Tradition and innovation combined with precision - BalTec

Pfäffikon ZH, Switzerland, February 2023. BalTec cold-forming machines are regarded worldwide as the most advanced technology to manufacture safe mechanical connections. Since 1968, our machines have been used over 46,000 times in various industries, many of which are still in operation today. As a leading supplier of high-quality riveting and roller forming machines, we are pleased to introduce the ELECTRIC EA30, the world's first roller forming machine with servo-controlled articulation.

With three individually programmable servos, the ELECTRIC EA30 can execute a variety of profile shapes in a single stroke. The forming capabilities include traditional roller forming, articulating roller forming, 3D articulating roller forming, and crimping. What makes the ELECTRIC EA30 so unique is the servo-controlled radial motion, which delivers significantly higher precision and control compared to conventional solutions that require manual adjustment of a mechanical stop. Another attractive feature of the ELECTRIC EA30 is its slim design as all three servo motors are aligned within the unit. This machine is well suited for integration into automated production lines with limited space. It can also be utilized as part of a stand-alone work cell for prototyping or low volume production where frequent changeover of nests and programs may be necessary.

The advanced HPPi software of the ELECTRIC series allows programming and quick adjustment of the forming process using the HMI. The HPPi software monitors all aspects of the forming process and stores the relevant process data. Exporting the process data through an industrial data interface (OPC/UA) enables integration into higher-level production management systems.

The primary advantages of this innovative technology are the great flexibility in forming, the programmability and control of the vertical, radial, and rotary motions, and the real time feedback of the forming process parameters. Also, this technology can significantly reduce cycle time compared to conventional, mechanical solutions that may require multiple forming steps and machines to produce one finished part.

BalTec Group CEO Domenico Mollo commented: " We are very pleased that with the EA30, we can again demonstrate our core competence in machine tooling. With this innovation, we are creating entirely new possibilities for our customers to individually design components according to their specific requirements and to adapt them quickly and flexibly should their needs change. The convenient and simple handling based on the principle of CNC-controlled machine tools also offers significant economic and ecological advantages."

BalTec Group

The core competence of the BalTec Group, headquartered in Pfäffikon, Switzerland, is manufacturing machines for joining technology through cold-forming. As early as 1968, BalTec, then still under the name Bräcker, made radial riveting technology known in various industries. Today, the company is the global leader in cold-forming and joining technology and is continuously developing innovations for the market.