

Servo drives TOX®-ElectricDrive now up to 1,000 kN

Precise press force in the capacity range from 2 to 1,000 kN

With the introduction of the TOX®-Electric Power module EPMK 1000, the technology company TOX® PRESSOTECHNIK GmbH & Co. KG, D-88250 Weingarten, advances into a new performance dimension for electromechanical servo drives. This significantly broadens the field of application of the TOX®-ElectricDrive product range once again, opening up completely new drive alternatives for the manufacturing industries in many areas.

But first things first: The continuously growing requirements of the manufacturing (mounting) industries and their suppliers already prompted TOX® PRESSOTECHNIK to develop a complete product range of press force servo drives on electromechanical basis 15 years ago. Starting with the tighter legislation with regard to product liability as well as the associated continuous documentation of all product/process steps and the growing electrification in almost all production areas, the engineers decided on a new drive concept. This meant that force/displacement operations had to be regulated and controlled sensitively, and reproducible process sequences had to be represented seamlessly with documented quality certificates. Modern electromechanics or mechatronics provide ideal conditions for this. With the E-motors and their power supply/servo controller and the software, the interfaces can be clearly defined on the one hand, on the other hand, integration into higher control, quality assurance and communication networks is possible.

The product range of TOX®-ElectricDrive now includes the series TOX®-ElectricDrive EQ-K, with press forces of 2 to 100 kN, and EX-K, with press forces of 10 to 200 kN, featuring a compact, weight-reduced integral design. Adding to this are the series TOX®-Electric Power Module EPMS (slim design, beltless direct drive, press forces of 5 to 200 kN), EPMK (short, compact design, and depending on the performance class, equipped with ball screw or planetary threaded spindle and belt drive as well as gearbox, press forces of 5 to 1,000 kN), and EPMR (robot tongs drive with special flange, press forces with 55 and 100 kN). For the robot tongs drives EPMR, there are special designs optimized for clinch or rivet applications. These standardized designs as well as the new high-end press force drive EPMK 1000 cover a broad range of applications, and customers receive fully equipped drive solutions ready for operation from one responsible source.

Image description:

The image shows the new TOX®-Electric Power Module EPMK 1000 for reproducibly accurate press force applications with max. 1,000 kN

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