

Air purity class 5 according to ISO achieved

TOX has servo press certified for the clean room

In sensitive industries such as medical engineering, the optical industry or electronics, clean room-suitable components are necessary for all processes. This also includes drives. TOX PRESSOTECHNIK can now provide a solution with the servo presses from the ElectricDrive Core series: It corresponds to air purity class 5 in accordance with ISO 14644-1.

Those working in clean rooms must under no circumstances permit any contaminations in the end product. The system operators must meet the high quality demands of their customers, and comply with the tightened clean room conditions on the part of legislators. To meet these requirements, they also demand a certified clean room-suitability with regard to the components used in their systems. This is mandatory for typical applications in medical engineering, the pharmaceutical and optical industry as well as electronics and semiconductor technology. But industries such as renewable energies or aerospace also need this certification with regard to cleanliness suitability. TOX PRESSOTECHNIK is meeting this challenge and is adjusting its servo drives ElectricDrive Core accordingly.

Examined and certified

The drive specialist only needed to make minimal changes to the servo press for this purpose. In the next step, TOX commissioned the Fraunhofer Institute for Manufacturing Engineering and Automation (IPA) in Stuttgart with the inspection. The result: The ElectricDrive Core drive corresponds to air purity class 5 in accordance with ISO 14644-1. "With this clean room certification, we have reached a milestone, which opens new doors for us to applications that require the highest clean room conditions," says Marco Nimz, Product Manager at TOX PRESSOTECHNIK. What does this mean for users? The servo drives of the ElectricDrive Core product range can be used for production environments in the clean room.

Precisely adjustable forces

The electromechanical servo press TOX-ElectricDrive Core is very versatile for users – pressing, joining, testing, compressing, assembling, attaching and many more are possible. The system is a combination of controller, software and drive. Thanks to integrated process monitoring and sensors, users always have full control of the pressing process and quality of their product. They can even reconstruct the force with which a component was pressed years later.

Speaking of force – this is constant and precisely adjustable for the ElectricDrive system. Another bonus: Customers no longer need to program the drive themselves before commissioning, but only need to parameterize it. TOX can already predefine the programs for the plug-and-play-capable system at the factory.

“For us, it was important first of all to show users that they could really use the servo presses of the TOX-ElectricDrive Core series under clean room conditions, says Marco Nimz. In the first step, the IPA tested and certified a specific drive from TOX. As the mechanical adjustments compared to the standard drives are only minimal, TOX is planning to have further models certified for the clean room.

The Fraunhofer Institute maintains a database, in which all tested products – including the TOX ElectricPowerDrive with report number TO 2211-1362 – can be looked up.

<http://www.tested-device.de/>

3,399 characters incl. spaces

Meta title: TOX PRESSOTECHNIK gets servo press certified for clean rooms

Meta description: Servopress ElectricDrive Core: TOX PRESSOTECHNIK now has a certified drive for clean rooms.

Keywords: Servo press; clean room; sensitive industries; TOX PRESSOTECHNIK; ElectricDrive Core; drive; air purity class; clean room certificate; clean room conditions

Captions:



Image 1: TOX PRESSOTECHNIK commissioned the Fraunhofer Institute for Manufacturing Engineering and Automation with inspecting the ElectricDrive Core drive. The result: The servo press corresponds to air purity class 5 in accordance with ISO 14644-1.

Image: TOX PRESSOTECHNIK GmbH & Co. KG

About the company:

TOX® PRESSOTECHNIK is a supplier of presses, systems as well as components for sheet metal joining and assembly technology. Since its foundation in 1978, the family business has become a global player with more than 1400 employees worldwide, 550 of which are based at the headquarters in Weingarten near Ravensburg, Germany. The success story started with one pneumohydraulic drive – the TOX®-Powerpackage. The “Components” division now includes pneumohydraulic and electromechanical drives as well as controls, sensors and software for process monitoring and quality assurance. In addition to a large range of presses, the system range comprises manual, machine and robot tongs. Another mainstay are modern sheet metal joining procedures, also incorporating the TOX®-Clinching Technology, which makes the company today’s market leader.

Drives, processes and systems from TOX® PRESSOTECHNIK can be found at automotive manufacturers and their suppliers as well as at industrial businesses for household appliances, electronic components, furniture and much more. Special versions of the TOX®-Drives are also approved for the food industry.

TOX® PRESSOTECHNIK is represented worldwide: 18 subsidiaries, amongst others in the USA and South America, Europe and South Africa, India, China and the entire Pacific Region. 20 representatives in many other markets support and advise local customers.

In case of questions, contact:

TOX® PRESSOTECHNIK GmbH & Co. KG

presse@tox-de.com

Riedstraße 4

88250 Weingarten, Germany

Tel.: +49 751 5007- 0

www.tox-pressotechnik.com

In case of publication, please send a specimen copy to our agency:

a1kommunikation Schweizer GmbH

Dunja Jakob

Oberdorfstraße 31 A

70794 Filderstadt, Germany

Tel.: +49 711 9454161 - 14

dunja.jakob@a1kommunikation.de

www.a1kommunikation.de