

Media Release

Voith Turbo

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Voith adds IQ4 and RQ4 variants to its DrivAx servo drive product range

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- DrivAx IQ4: New! The compact servo drive for high dynamics
- DrivAx RQ4: New! The compact servo drive for high forces
- DrivAx CLDP: Self-contained servo drive with extended size range
- DrivAx CLCP: Optimized, self-contained servo drive for robotic applications

HEIDENHEIM, GERMANY. To launch its appearance at the 2022 Hannover Messe trade fair, Voith Turbo will present its compact, variable speed pump drives DrivAx IQ4 and DrivAx RQ4. The new drives extend the broad portfolio of the DrivAx product family. Other highlights at the drive specialist's exhibition stand will be the self-contained servo drive DrivAx CLDP, whose ten-year success story is set to continue in new sizes, and the DrivAx CLCP, which was specially developed for robotics applications and can be seen live in action at the Voith Turbo stand.

DrivAx IQ4: variable-speed drive for applications with high power density and high dynamics

DrivAx IQ4 drives consist of a servo motor with a directly mounted internal gear pump that jointly control volumetric flow and pressure. The system allows for a maximum volumetric flow of 125 l/min and a maximum pressure of 270 bar. The speed-controlled pump drive DrivAx IQ4 combines energy efficiency with high power density and robustness. Unlike conventional, valve-controlled hydraulic systems, the DrivAx IQ4 offers power on demand. Thanks to this power-on-demand principle, the system can operate energy-efficiently at lower speeds in the part-load range and outside the machine cycle. The compact design and interface architecture allow easy integration into machine and control system.

DrivAx RQ4: compact design for versatile range of applications

The DrivAx RQ4 consists of a servo motor and directly mounted radial piston pump that together regulate a volumetric flow of maximum 450 l/min at a maximum pressure of 350 bar. The speed-controlled pump drive combines energy efficiency with high power density and robustness. In addition, unlike conventional valve-controlled hydraulic systems, the DrivAx RQ4 offers power on demand. This means that the system works efficiently at lower speeds in the part-load range and outside the machine cycle. This power-on-demand principle in combination with the load-dependent switchable pump allows special load profiles with reduced-size motor and peripherals to be realized. The compact design and interface architecture allow easy integration into machine and control system.

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DrivAx CLDP: self-contained servo drive from Voith celebrates its anniversary

Ten years ago, Voith ushered in the revolution in self-contained servo drives with the introduction of the DrivAx CLDP. In the meantime, more than 1,000 servo drives are in operation worldwide. To coincide with this anniversary, the technology group will be presenting two new sizes for the self-contained servo drive product line at Hannover Messe 2022. Users therefore now have five sizes to choose from, which allows even more precise adaptation of the servo drive to the respective application.

The main components of the CLDP linear servo drive are a servo motor, an internal gear pump and an actuator. Pressure and/or position sensors ensure the precise control of force and position, while the speed and directional control of movement are effected without valve technology. Thanks to this design principle, there is no need for a hydraulic unit or piping. The compact design and interface architecture allow easy integration into machine and control system.

The DrivAx CLDP also offers an alternative to electromechanical drives. The technology combines the robustness and power density of hydraulics with the controllability of servo technology. Other benefits are the almost wear-free operation, resistance to force peaks, lower energy requirement and the elimination of cooling and lubricating units.

DrivAx CLCP: the light yet powerful customized linear drive solution

The DrivAx CLCP servo drive is a self-contained linear drive with an outstanding power-to-weight ratio. This also makes the linear drive an ideal alternative for robot-assisted applications. The main components of the DrivAx CLCP are a servo motor, a 4Q internal gear pump and an actuator. Pressure and/or position sensors ensure the precise control of force and position, while the speed and directional control of movement are effected

without valve technology. This design principle means that there is no need for a hydraulic unit or piping. The load-adaptive or electro-hydraulic gear shifting reduces the size of the components and thus lowers procurement and installation costs. The compact design and interface architectures allow easy integration into machine and control system.

Thanks to these characteristics, the self-contained DrivAx CLCP linear drive also offers an alternative to electromechanical drives, as the technology combines the robustness and power density of hydraulics with the controllability of servo technology. Other benefits are the almost wear-free operation, resistance to force peaks, lower energy requirement and the elimination of cooling and lubricating units.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 20,000 employees, sales of € 4.3 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on the advanced technologies and digital applications of Voith.

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Variable speed pump drive
DrivAx IQ4



Variable speed pump drive
DrivAx RQ4



Self-contained servo drive DrivAx CLDP



Self-contained servo drive DrivAx CLCP

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