

Media Release

Voith Group

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Highly efficient Voith drive technology at Blechexpo 2019

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- Voith servo drives are highly dynamic, energy efficient and robust.
- The integrated hydraulic system of servo-drives allows easy installation, reduces maintenance costs.
- Servo pump drives and variable speed pumps provide maximum productivity with energy savings of up to 70 per cent

HEIDENHEIM, Germany. Voith will be presenting self-contained hydraulic axis, systems and components for the sheet metal working industry at Blechexpo 2019, from November 5 to 8, in Stuttgart, Germany.

Energy-efficient and self-contained servo drives

The Voith product family of self-contained servo drives are characterized by high dynamics and power density, overload safety and nearly wear-free operation; they require up to 50 per cent less energy. Self-contained servo drives are compact and can be entirely and easily integrated into new or existing systems. No hydraulic unit or oil tank is required for the operation of the self-contained drive. Applications include almost any linear motion requiring high dynamics, precision and reproducibility.

The PDSC (Press Drive Self Contained) is a hydraulic linear drive that is characterized by a high power density and high dynamics. The drive operates with a force of up to 5000 kN and combines speed and high force with extraordinarily high energy efficiency, the automatic gear shifting and the almost wear-free operation. The drive is suitable for force control and position control.

The CLDP (Closed Loop Differential Pump) is a hydraulic linear axis suitable for all applications with high density and high dynamics. It consists of a servomotor, internal gear pump and a directly linked hydraulic cylinder.

The drive operates with a force of up to 500 kN and speeds of up to 1,500 mm/s. Power and position control are precise and straightforward.

The CLDP is used in applications that require a dynamic response, reproducibility and reliability, such as presses, test rigs, cutting, shaping and special-purpose machines. Besides, the drives offer an advantageous alternative to spindle drives with servomotor.

The CLSP (Closed Loop 4Q Pump) excels due to its compact size and high energy efficiency. The drive operates with a force of up to 300 kN and combines speed and high force with extraordinary robustness and lightweight. It consists of a servomotor, a 4Q internal gear pump and a directly coupled hydraulic cylinder.

The CLSP drive also boasts automatic, load-dependent shifting of the hydraulic transmission. This significantly reduces the connected load of the drive. As a result, the motor and inverter sizes are more compact.

The CLSP is typically used in bending, cutting, forming and special-purpose machines, as well as presses, material handling or as an alternative to spindle drives with servomotor.

Maximum productivity with energy savings of up to 70 per cent

Voith servo pumps combine the advantages of hydraulics and servo electronics and technology designed for Industry 4.0.

Hydraulic applications with significant control requirements are subjected to highly fluctuating loads during operation. Despite these conditions, the Voith variable speed drive adapts to the power needed by varying volume flows and motor speeds, to ensure efficient operation. The optimised process reduces energy consumption by up to 70 per cent and the TCO of the entire hydraulic system by up to 35 per cent, so the equipment has generally paid for itself within one to two years.

Hydraulic components in the best hands. The engineers and technicians of the global Voith Service network make sure that your system runs at maximum performance over the entire life cycle - from small components and on-site service, remote service, consultation and optimisation to the complete retrofit of your large-scale installation.

About the Voith Group

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, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000

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employees, sales of € 4.2 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 the 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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Self-contained press-drive (PDSC)

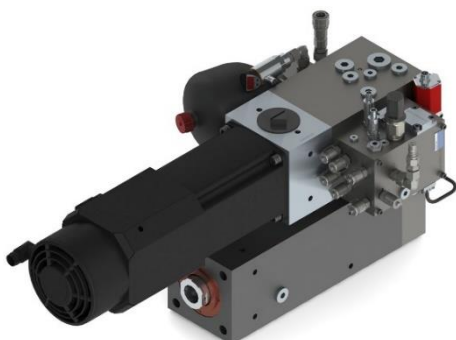


Closed Loop Differential Pump (CLDP)

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Closed Loop 4Q Pump (CLSP)



Servo pump

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