

## Press Release

Voith GmbH  
Center of Competence Corporate and  
Market Communication EMEA  
St. Poeltener Strasse 43  
89522 Heidenheim, Germany  
Tel. +49 7321 37-2060  
Fax +49 7321 37-7107

[www.voith.com](http://www.voith.com)

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### **Energy Efficient and Highly Dynamic – Hydraulic Systems from Voith at the Hannover Messe Trade Fair 2017**

**Heidenheim/ Hannover.** From 24<sup>th</sup> to 28<sup>th</sup> April visitors of the Voith stand (Hall 23, Booth B39) at the Hannover Messe will experience live how plant operators can save up to 70 % of energy cost in the future, while simultaneously increasing productivity. Voith will be presenting its innovative hydraulic systems and products for control machines and plants under the motto "Progressive Hydraulic Solutions". The spotlight will focus on the linear drives CLDP and HPD as well as Voith servo pumps.

### **Reduce Energy Costs by up to 50% – the Self-Contained CLDP Servo Drive from Voith**

The Voith CLDP servo drive (Closed Loop Differential Pump) can be used for all direct linear motions, especially when dynamic response, reproducibility and reliability are needed. Enhanced productivity, high energy efficiency, full programmable position or force control and longer lifetime of the drive, are attractive features for plant operators. They are almost wear-free and have an unrestricted overload protection. Unlike electromechanical drives this self-contained servo drive offers customers the full range of benefits of a hydraulic systems solution.

### **The combination of a proven hydraulic system with an efficient servo drive in one system – Hybrid Servo Punch Drive HPD**

Voith hydraulic punching drives are complete systems with a modular design. Voith offers a "best-fit" drive system for every class of punching machine. The new HPD hybrid servo punch fits into this concept. It requires mechanically the same assembly surface as all Voith punching drives. Migration to HPD will require little or no change to the machine frame. The same applies to the electrical interface. Our HS4 controller version for HPD provides the same hardware interface and parameter structure as all HS4 versions of other Voith punch drives.



The functional principle of HPD is based on a closed circuit hydraulic system. The pump is directly connected to the cylinder and operates as a hydrostatic transmission. In contrast to mechanical transmissions, the hydraulic transmissions and the linear cylinders are almost wear-free and extremely robust.

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## **Maximum Productivity with Energy Savings of up to 70 Percent – The Voith Servo Pump**

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The future of hydraulics has arrived with servo pumps from Voith. Hydraulic applications with high demands on control technology are subject to greatly fluctuating stresses during operation. To ensure cost-effective operation even under these conditions, the Voith servo pump adjusts to the power actually needed over varying volume flows and motor speeds. This provides clear advantages over conventional systems, particularly in the part load range, with a uniformly high volume flow that is needed only rarely within an operating cycle. Optimized operation reduces energy consumption by up to 70 percent and the total cost of ownership (TCO) of the entire hydraulic system by up to 35 percent. In this way, it is usually amortized within one to two years.

For comprehensive information on the presence of Voith at HANNOVER MESSE trade fair (Hall 23, Booth B39), please visit:

<https://voith.com/hm-2017-en/index.html>

## About Voith Turbo

Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions, systems and comprehensive services. Customers from highly diverse industries such as oil and gas, energy, rail and commercial vehicles, ship technology, mining and mechanical engineering rely on the advanced technologies and solutions-driven expertise of Voith Turbo.

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## About the company

For 150 years, Voith technologies have been inspiring its customers, business partners and employees all over the world. Founded in 1867, Voith today has around 19,000 employees and earns 4.3 billion euros in sales. It has locations in more than 60 countries and is one of the largest family-owned companies in Europe. As a technology leader, Voith sets standards in the energy, oil & gas, paper, raw materials and transport & automotive markets.

### Contact:

Romina Galvis

Media, Internal & Events Manager EMEA

Tel. +49 7321 37-9575

[Romina.Galvis@Voith.com](mailto:Romina.Galvis@Voith.com)

### Contact at the Hannover Messe:

Marius BIRTHÄLME

Telefon: +49 7152 992 577

[Marius.Birthaelmer@voith.com](mailto:Marius.Birthaelmer@voith.com)

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