



# Servo-Hydraulik

# The future ?! - Intelligent Servo Pump Drives

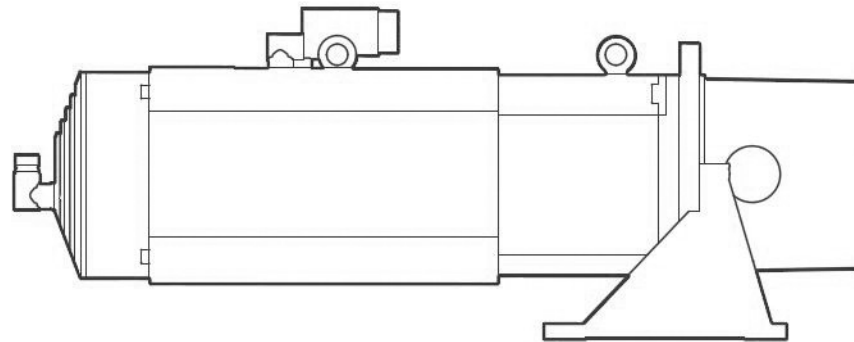
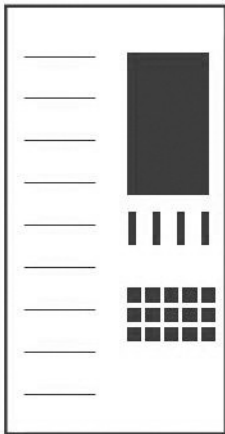
Servo  
inverter

+

Synchronous  
servo motor

+

Voith internal  
gear pump

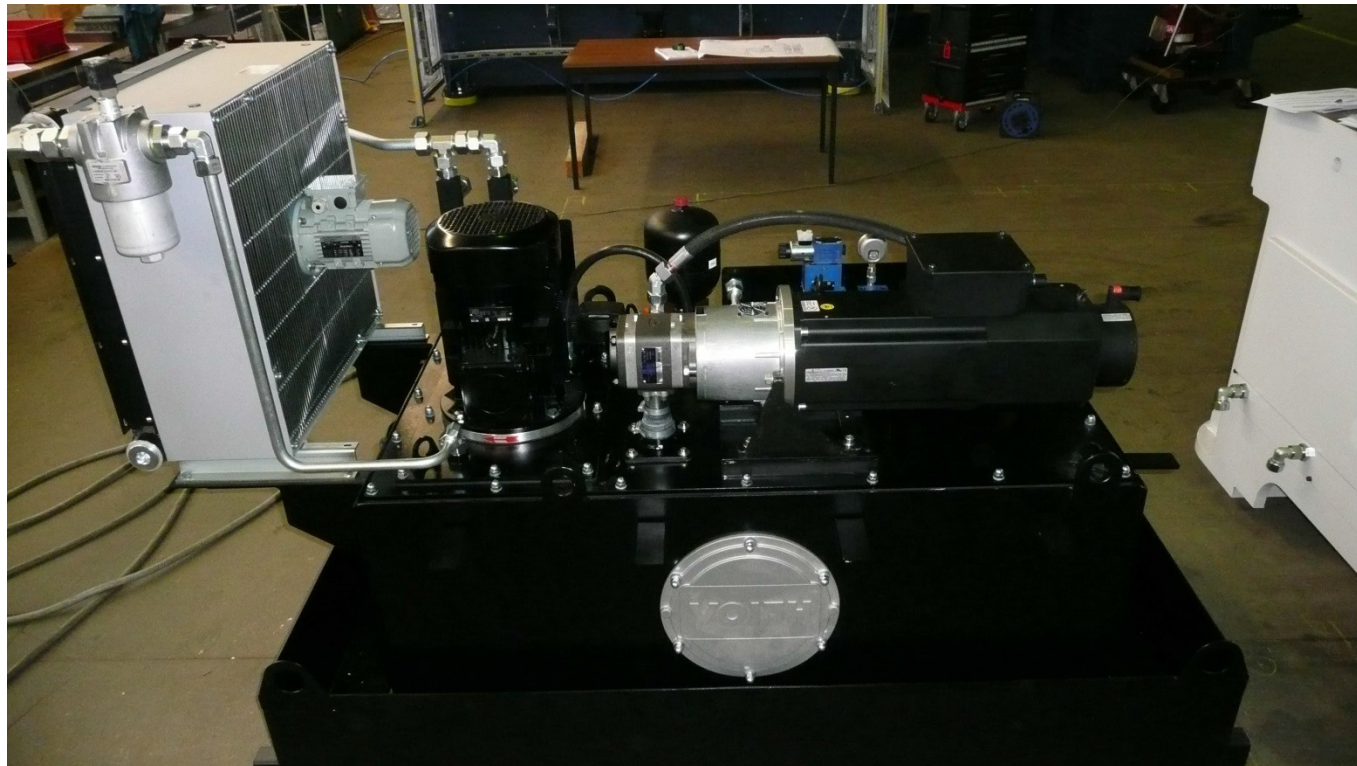


# What is new?

Optimal energy efficiency

Highly dynamic response

Excellent precision



## Advantages:

### Energy Efficiency:

The motor requires energy only when the machine is moving, thereby saving between 30% to 50% energy when compared to a conventional hydraulic system.

### Low Noise:

The noise level of the hydraulic servo is substantially less than with a permanently running hydraulic motor as the servo motor only runs when the machine is moving.

When machine is idle, the hydraulic servo has no noise emission and no energy consumption.



**Adjustment of flow rate and cutting pressure are managed and set at the main controller of the machine, thereby providing an accurate specification of cutting speed and cutting pressure.**

**The regulation of the pressure is done with millisecond precision.**





**Controlled fluctuation of the cutting pressure by the servo pump eliminates pressure surges in the hydraulic system.**

**Elimination of pressure peaks results in smoother machine operation, cleaner material cutting.**



## Further advantages:

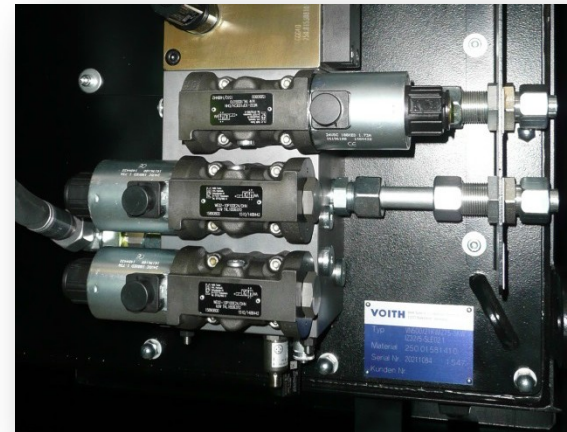
### Analysis of the Cutting Operation:

The cutting process may be fully monitored thus a worn or broken die is detected more quickly by observation of the cutting pressure.

### Valve Reduction:

Fewer valves are used than in a conventional hydraulic system. The result:

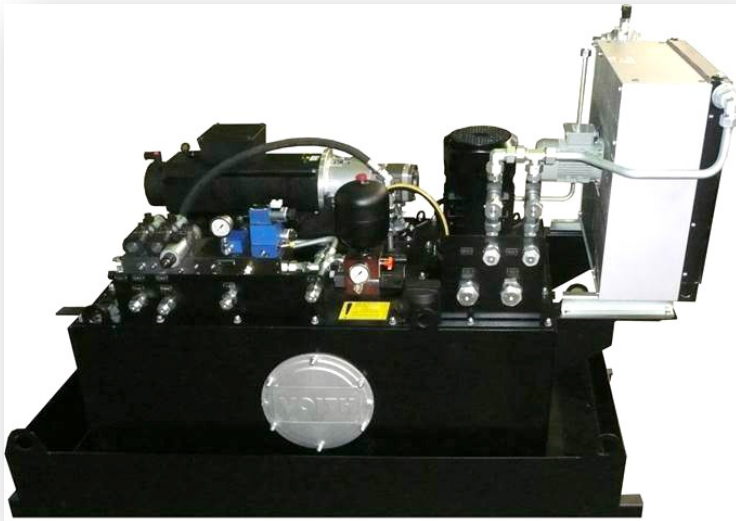
- Less down time
- Reduced maintenance



## Further advantages:

### High Dynamics

Quick acceleration and deceleration of the hydraulic system.



### Custom Configuration:

Design of hydraulic according to customer's requirement.



**For more information, please contact us at  
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