

SERVO ECCENTRIC PRESSES

RETROFITTING FLYWHEEL PRESSES

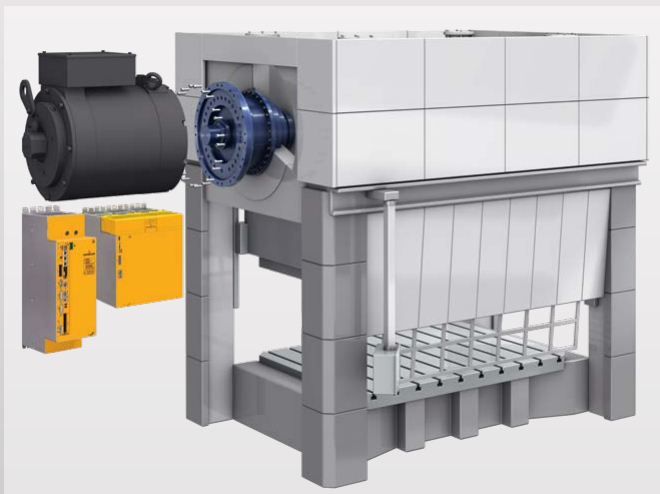
SERVO-HYDRAULIC PRESSES

PRESS BRAKES

SCREW PRESSES

More Power and Energy Efficiency for Sheet Metal and Metalworking Machines

Whether for new equipment or retrofitting – Baumüller is your technology partner for both complete drive systems and individual components such as motors and servo drives. High-performance drive components are used specifically in metal forming. We offer the right solution for every application requirement.



Servo eccentric presses with high-performance direct drives

Compared to conventional hydraulic or mechanical presses, servo presses offer significant advantages such as increased productivity and higher product quality. They also provide users with a tremendous amount of flexibility. For example, the motion profile during the forming process can be adjusted more flexibly, and processes can be optimized in terms of cycle time, tool wear, and energy consumption. Additionally, the number of wear parts is reduced, resulting in less maintenance.

METAL FORMING

Scalable drive system solutions from Baumüller
Engineering | Hardware | Software

Sustainable, innovative, and customized drive solutions for sheet metal and metalworking machines, available as individual components or complete systems.

BE IN MOTION



 **Retrofit** of a traditional mechanical press into a servo press



Capacitor Instead of Flywheel: Retrofitting mechanical flywheel presses into servo presses

Modernization instead of replacement: A mechanical flywheel press can typically be converted into a servo eccentric press with minimal design effort. After dismantling the existing drive system and performing a thorough inspection of the mechanical components, integrating the DST2 high-torque motors into the existing gearbox is usually straightforward.



 **Reference Hürsan Pres:** Take the pressure off, boost efficiency – the easy way to servo hydraulics



Energy-efficient servo-hydraulic presses

Hydraulic presses offer significant advantages over conventional mechanical presses, such as higher tonnages, longer stroke lengths, and a more compact design. However, hydraulic presses powered by standard motors have lower energy efficiency. The Baumüller servo pump drive supplies the hydraulic system via a constant-displacement pump driven by a servo motor. In this way, Baumüller combines the advantages of hydraulic power transmission with those of electric servo drive technology. By dynamically adjusting the motor speed, flow and pressure can be precisely controlled. When neither flow nor pressure is required, the motor stands still and consumes no energy.



Press brakes

Compared to a conventional hydraulic solution, a **fully electric main axis** consisting of servo motors and servo drives offers not only higher energy efficiency and productivity but also additional advantages such as greater environmental sustainability due to the elimination of oil, lower noise levels and maintenance costs, as well as higher precision.



 **Reference Synchropress:**
Enhanced Efficiency and Power for Metal Forming



Servo-hydraulic drives offer significant advantages over hydraulic or mechanical main axes, such as increased productivity and greater flexibility. A high-performance servo pump drive can optimize cycle time, noise emissions, energy consumption, and environmental performance.

Highly synchronous Servo screw presses

Variable pressing forces and flexible stroke heights are among the most important advantages of the spindle press. With the Baumüller drive solution – consisting of highly dynamic servo motors or high-performance direct drives and compact servo drives – you benefit from highly synchronized motor control. This is essential for achieving precision and repeatability in your application.

 **Further information:**
Smart Drive Solutions for Metalworking



Interested in our system?

Scan the QR code and contact us now.
<https://www.baumueller.com/en/contact>

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