SERVO

HYDRAULIC PRESS

ENGINEERING EXCELLENCE FOR
THE AUTOMOTIVE AND MANUFACTURING INDUSTRY

STENHØJ HYDRAULIK

ABOUT
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ENGINEERING EXCELLENCE FOR
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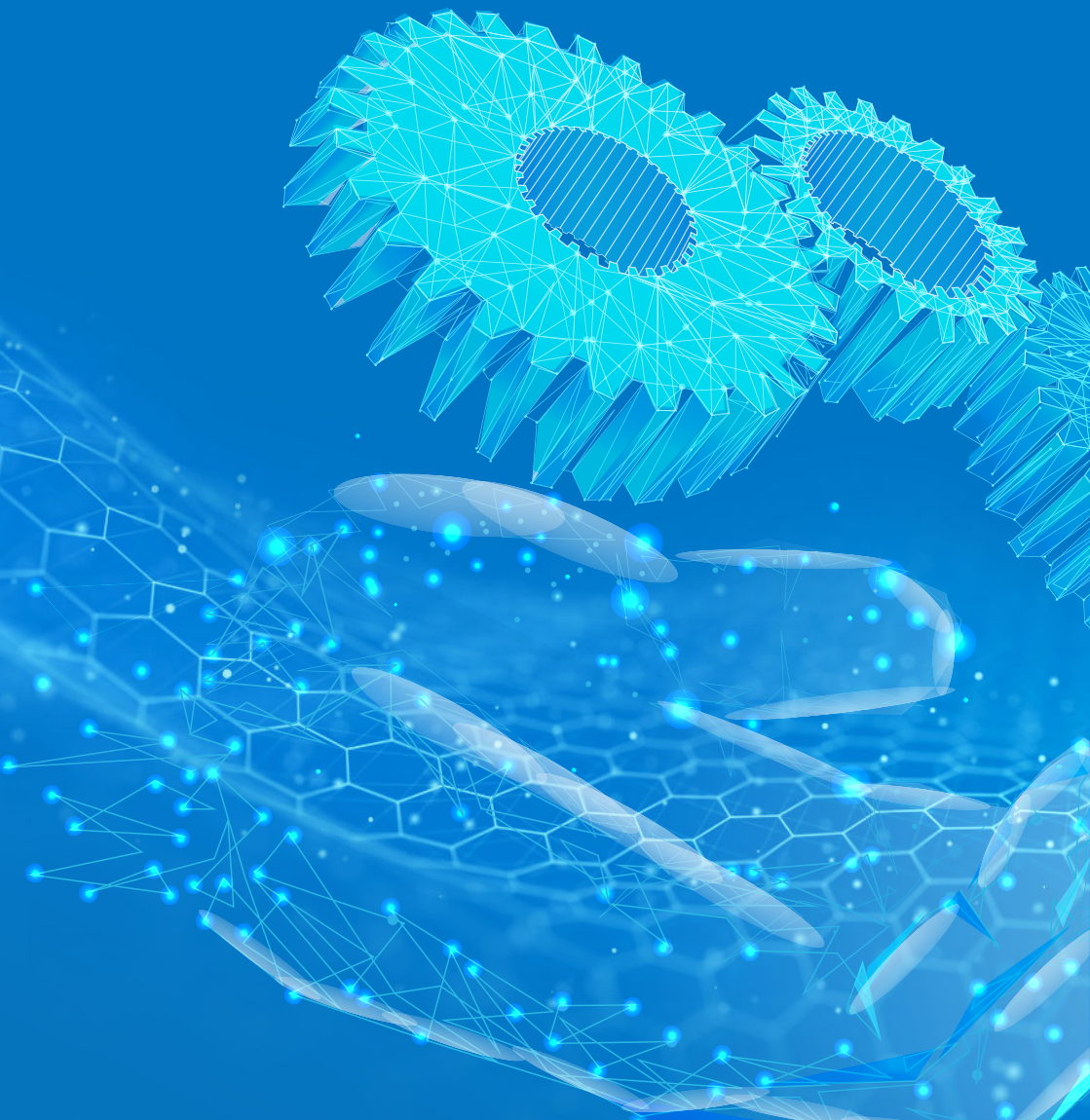


STENHØJ HYDRAULIK

ENGINEERING EXCELLENCE FOR THE AUTOMOTIVE AND MANUFACTURING INDUSTRY

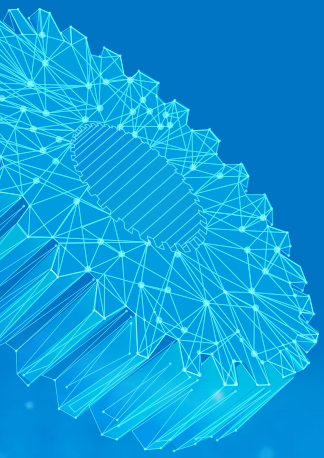
Since 1917, Stenhøj Hydraulik has manufactured and marketed advanced and innovative products for the automotive and manufacturing industry. For the past century we have been a preferred partner for thousands of recognized brands worldwide, designing and manufacturing state-of-the-art metal forming machinery.

At STENHØJ HYDRAULIK A/S, we specialise in design and production of:

- Hydraulic Presses
- SERVO-Hydraulic Presses
- Electromechanical Broaching Machines
- Hydraulic Truck Chassis Beam bending machines

We are a technology driven company. We strive to be at the forefront of the market with creative technical solutions to complex challenges.

Our business is based on expert knowledge. We have something we are proud of – competent and dedicated employees – dedicated to solving our customers' needs.



SERVO
HYDRAULIC PRESS

Accelerate your productivity with the STENHØJ SERVO-Hydraulic Press.

The STENHØJ SERVO-Hydraulic Press is our proud answer to modern, sustainable, and cost-efficient production, offering up to an impressive 70% in energy savings compared to a conventional hydraulic press.

Characterised by its rapid speed, exceptional power, remarkably low noise levels and advanced sensors for data intelligence. This is the production press of the future.

SERVO

UNIQUE FEATURES

PATENT SUBMITTED TECHNOLOGY WITH GREAT BENEFITS:

- Energy efficient with a reduction up to 70%
- Stable torque curve
- High speed > 500 mm / s
- Single- and double-acting cushion
- Low noise level < 68 dB (A)
- Full force on total stroke
- Fully programmable PLC
- High accuracy on stroke length
- Low maintenance costs
- High repetition accuracy
- 100% convertible with standard tools
- More than 40 strokes per minute
- 4x acceleration and deceleration
- Reduced requirement for cooling.

SPECIFICATIONS

SPEED

A significant feature of the SERVO-Hydraulic Press is its impressive speed.

By using a servo motor as driving force, acceleration and deceleration speed increases significantly compared to a conventional hydraulic press. The high speed of the press and fully programmable die cushion (speed, force and position), enable extremely short cycle times.

PRESSING SPEEDS (TYPICAL)

APPROACH SPEED:	RETURN SPEED:	PRESSING SPEED:
0-500 mm/s	0-500 mm/s	0-50 mm/s

- Adjustable in program and controlled by servo motor.

Integrating the force of speed with a servo-motor solution enables extremely fast acceleration and deceleration measured up to 3 times faster than a conventional hydraulic press. The high speed facilitates not only significantly shorter cycle times, yet also improves process control and overall performance stability.

ENERGY SAVINGS UP TO 70%

Facilitating high speed and extremely short cycle times, the servo-motor solution distinguishes itself by reducing energy consumption with up to 70%, compared to conventional hydraulic press depending on the application.

INDUSTRY 4.0

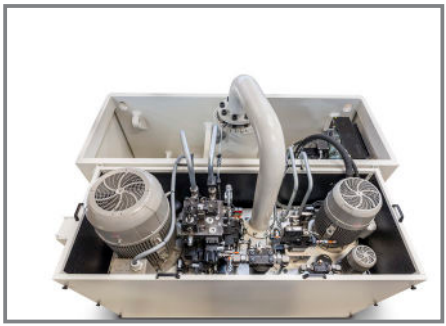
The STENHØJ SERVO-hydraulic press not only meets energy goals of contemporary sustainable production. It also secures product quality and increased productivity with the integration of advanced sensors and actuator intelligence for data collection enabling OEE optimisation and predictive maintenance.

On request, wear, tool or service life monitoring can be integrated.

TECHNOLOGY

Powerful, short cycles times, high precision, low energy consumption and low noise – the STENHØJ SERVO-hydraulic press redefines the standards of industrial presses.

Traditionally, mechanical and hydraulic presses have each brought unique benefits to industrial production. SERVO hydraulic presses have in this case a more advanced hybrid technology taking the best from both hydraulic and mechanical presses and characterised by high stroke speed, high repeatability, simple set up and less maintenance, the hydraulic press stands out on its exceptional power, flexibility and extensive control on energy and movements of the single components.



CONVENTIONAL HYDRAULIC SYSTEM

SERVO HYDRAULIC SYSTEM

DESIGN

By combining the quality of our conventional hydraulic production press and replacing the control valves of the hydraulic systems with a servo motor, speed, position and press force are controlled merely electrically. The robust and compact design based on moduls, reduces the number of parts and stabilizes oil temperature while facilitating availability and repeat accuracy. Finally, the modul design minimizes maintenance costs and replacement of parts.

WELL TESTED TECHNOLOGY

While the SERVO-hydraulic press is a new application into the industry, the high-quality components and combined technologies deployed, are very familiar, well tested, and have been used by STENHØJ HYDRAULIK by many years.

Consequently we use the same quality parts, components and electrical cabinets as for our well known hydraulic presses, while the construction of the hydraulic system still offers the same options for pressure control as our conventional hydraulic press.

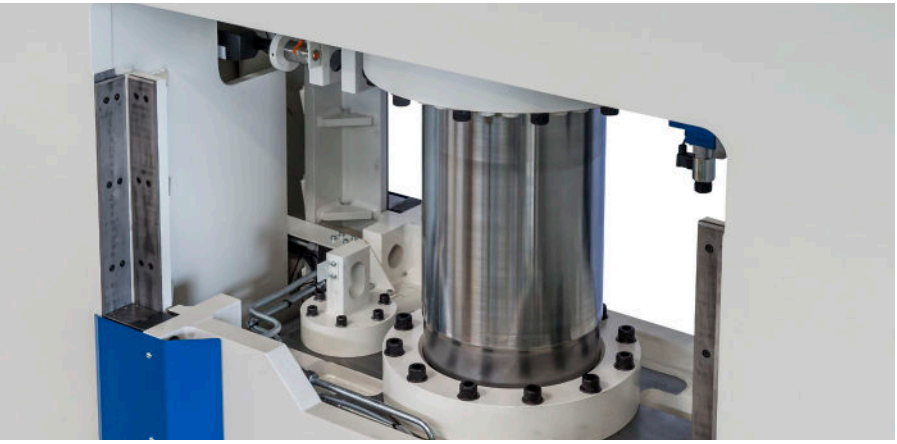
Finally, we have deployed decades of experience with advanced pump systems and expertise from more than 150 advanced electro-mechanical broaching machines with equivalent servo-motor system to the design of our press machines.

By combining the best of two worlds the SERVO-hydraulic press from STENHØJ is a strong and competitive choice for modern production.

SAFETY

The STENHØJ SERVO-hydraulic Press is designed to comply with all European safety standards including the harmonised standards for presses:

DS_EN ISO 16092-1_2018 & DS_EN ISO 16092-3_2018.



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