

New innovation from AP&T: Servo hydraulic press with high performance and half the energy consumption

It is quicker, twice as energy efficient and requires significantly less maintenance than a conventional hydraulic press. AP&T's new servo hydraulic press creates entirely new conditions for increased productivity within both cold forming and hot forming.

“The technology unites the best of two worlds by combining the consistently high press force offered by hydraulic presses with the energy efficiency and excellent speed control possibilities offered by servo mechanical presses,” says AP&T Director Business Development and Marketing Per Josefsson.

The pressing process can be controlled with a great deal of precision and a high degree of parallelism between the press table and slide. The force is consistently high during the entire press cycle, and it can be distributed with great precision, even over small surfaces. The cushion can be pre-accelerated when forming sensitive materials. The high degree of parallelism also promotes reduced tooling wear.

“In terms of performance, the new press is extremely effective. Acceleration force and deceleration force are up to 250% higher than that of a conventional hydraulic press, which enables substantially increased production capacity. Process and machine data are controlled via future-proofed Internet-based solutions.”

The new servo hydraulic press only consumes half as much energy as a conventional hydraulic press. Energy can be stored internally in the machine, which enables higher output with lower installed effect. The need for cooling is greatly reduced and when the press is idle, it does not consume any energy at all.

In addition to low energy consumption, the servo hydraulic press also offers several other environmental advantages. The noise level is very low and the press is designed to be easily recyclable. The utilized hydraulic fluid is environmentally friendly, and the amount of fluid required is significantly lower than that required by a conventional hydraulic press.

“Through modular design and a high degree of shared components, we have also extended service intervals significantly. The need for maintenance is approximately 30 percent lower than for a conventional hydraulic press,” says Per Josefsson.

AP&T's new servo hydraulic press was presented for the first time on October 4 and 5 in Ulricehamn, Sweden in conjunction with the market launch of the company's new press line for forming high-strength aluminum, which includes the new press.

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Servo_Hydraulic_Press.jpg

AP&T's servo hydraulic press is the latest sensation — it combines the consistently high press force offered by hydraulic presses with the energy efficiency and speed control possibilities offered by servo mechanical presses.



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The new servo hydraulic press was presented to customers and other stakeholders for the first time at an event in Ulricehamn, Sweden on October 4 and 5.

AP&T develops, manufactures and markets production solutions for metal forming, including automation, presses, tooling and related aftermarket services. The company has approximately 450 employees, its own facilities in Sweden and Italy and a global sales and service organization. The company's headquarters are located in Ulricehamn, Sweden.