

PRESS RELEASE: HIGH SPEED ELECTRIC PRESS BRAKE LAUNCHED BY AMADA



AMADA is releasing its first fully electric press brake, the EG-4010, which combines increased productivity and precision, with lower power consumption. The compact machine forms part of the company's expanding Ergonomic range, which aims to increase output and quality, by reducing operator fatigue. AMADA's new EG-4010 will be previewed within Europe for the first time at the EuroBLECH exhibition later this year (23-26 October, Hanover, Germany).

Unique to AMADA – and a World's first – is the patented Dual Servo Press (DSP) electric-drive system. The drives comprise of dual servomotors on each side of the press brake, so four servomotors in total. This 'dual' concept is based

around delivering the customer demand for both high speed and low power consumption. Indeed, productivity is maximised with a beam speed of up to 220mm/s.

Despite the high speed, energy consumption is reduced considerably by utilising 5.3kW motors with 2.8kVA power requirements. In comparison with the modern hydraulic press brake with 7kW motor output and 10 kVA power requirement, a 72% reduction. In addition with electric technology, there is no hydraulic oil, saving on both service and oil disposal costs, and ultimately serving to protect the environment.

The use of advanced electric-drive technology importantly does not compromise quality; in fact, it is enhanced with 1µm (0.001mm) drive precision, comparing favourably to the 10µm (0.01mm) offered by typical hydraulic machines. This accuracy is supported by 3µm (0.003mm) independent back-gauge positioning capability.

“Our first fully electric press brake, the EG-4010, features AMADA's patented DSP system, allowing for extremely high speed and precision folding with low power consumption,” states Chris Williams, Product Manager, AMADA UK. “Combined with

its ergonomic design, this compact machine is tailored for smaller components requiring high precision, and is an ideal balance to the high output of a fibre laser.”

The ergonomics of the EG-4010 creates a highly comfortable and productive workstation for processing small, complex parts. Seated operation is possible with work table and seat kit included, with a cut-out in the lower beam facilitating foot-pedal activation from a seated position. The workstation can also be customised by the operator with multiple adjustments available, such as, seat height, foot pedal angle, controller height/angle and the ability to position the machine controller to either the left or right side. Operator fatigue is therefore reduced, which in turn decreases defective parts and increases productivity through the working shift, as well as providing greater comfort to the operator.

Control is via AMADA’s proprietary AMNC 3i, which is compatible with VPSS 3i offline programming software. The control also ensures complete futureproofing in line with Industry 4.0. The easy-to-use control with smartphone-style operation facilitates increased machine uptime and a greater number of parts per hour.

Further innovations include SGRIP punch tool clamps for vertical tool loading and unloading; Digi-pro angle measurement for quick adjustment during test bending; and AKAS® safety system with automatic height setting capability for fast set-up and fast operation when in close proximity to the tooling.

Although the 40 ton, 1m EG offers a compact footprint of just 2000 x 1800 mm, a large working envelope with an open frame makes it possible to produce a greater number of different parts. What’s more, the machine offers flexible Euro-style tooling, high visibility back-gauge finger with multiple gauging points (four per finger), Force Control for accurate coining, and TDS (Thickness Detection System) for precision bending across material batches.

ENDS

For further information:

Amada, 01562 749500, cathryn.morris@amada.co.uk, www.amada.co.uk