



H-Brake Hybrid 110T

Hybrid 110T 1600 press brake

Unfold the future

The H-Brake 110T x 1600 is a newly-developed press brake built using a combination of proven technologies. The base is O-frame technology from the E-Brake range, ensuring a stable structure with minimal deflection. It is powered by energy-efficient hybrid technology, creating an innovative and compact press brake with a very high tonnage density.

O-frame

The O-frame is stronger, more stable, and produces less distortion than the traditional C-frame, which means the bending tool remains perfectly aligned even under very heavy loads. This structure also makes it possible to use the back gauge over the machine's full working length.

Tonnage density

Compared with traditional hydraulic press brakes on the market, this system generates a considerable increase in the press capacity per available bending length. This opens up a wide range of possibilities for the machine concept.

Specifications

Max. tonnage	1100 KN
Max. working length	1600 mm
Table height	1025 mm
Table width	110 mm
Installation size Q, standard; (without upper and lower die adapter)	555/655 mm
Axis range - Type G back gauge	
Y-axis, Max. stroke adjustment upper beam	280 mm
X-axis, Max. adjustment range back gauge	550 mm
X-axis, Max. range (second gauge)	570 mm
X-axis, Max. range (third gauge)	1000 mm
R-axis	150 mm
dX-axis, optional	100 mm
Y1-Y2 correction programmable	5 mm

This press brake can generate a maximum pressing capacity of 110 tonnes over a bending length of approximately 1600 mm, an ideal solution for companies with limited space. In addition, smaller, thick sheet-metal parts no longer need to be produced on oversized press brakes, which improves the machine park's efficiency and usability.

No continuous driving

Hybrid drive is switched on only when the footpedal is operated, The pump is otherwise inactive. Its highly dynamic Y-axis control, with approach and return speeds of 230 mm per second, helps achieve cycle times up to 30% shorter than with conventional hydraulic press brakes. Because of this unique drive concept, the machine is extremely quiet and energy-efficient.

Ergonomic implementation

With the Ergonomic implementation option, the press brake and its operator work as one. The operator is surrounded by a support table, which is especially beneficial when bending large quantities. The ergonomic ease of operation is optimised because the seating position can be fully adjusted as desired, increasing productivity.

Axis accuracy	
Y-axis	± 0.005 mm
X-axis	± 0.02 mm
R-axis	± 0.1 mm
Z1-Z2 axis, optional	± 0.2 mm
dX-axis, optional	± 0.01 mm
Axis speeds	
Y-axis, Closing speed*	230 mm/sec
Y-axis, Max. bending speed	10 mm/sec
Y-axis, Return speed*	230 mm/sec
X-axis	350 mm/sec
R-axis	100 mm/sec
Z-axis	1000 mm/sec
dX-axis, optional	100 mm/sec

Connections	
Electrical connection	3/N/PE 230-400 V
Main engine connectivity	15 kW

Weight and dimensions	
Machine weight	± 6000 kg
Machine length	± 2660 mm
Machine depth	± 1810 mm
Machine height	± 2950 mm
Table in floor	0 mm

*combined with light screen

