

ELECTRIC & HYDRAULIC PRESS BRAKES



ALPHA
LAZER

YOUR PARTNER FOR AUTOMATED **CUTTING SOLUTIONS**

Alpha Lazer is part of the Machitech Group with 20 Years of Dedicated Experience, 1,800 Machines in Service Worldwide and 97% Customer Referral. The attention to detail extends beyond the factory floor as our employees practice a long tradition of integrity, efficiency, and precision in every step of the customer's journey with us.

With our complete installation and training packages specific to individual requirements, customer satisfaction is the bedrock of the Machitech Group Experience.

PLASMA



LASER



ROBOTICS



BEAMCUT
SYSTEMS

TOTAL CUT

ALPHA
LAZER

MAVERICKCNC
BY MACHITECH

PEACE OF MIND TECHNICAL SUPPORT



We provide peace of mind... so you can focus on growing your business.

At Alpha Lazer, our commitment is to provide our customers with unmatched service. Choosing Alpha Lazer means gaining access to top-quality equipment, direct contact with our team of experts, specialized assistance, and prompt technical support. In summary, we are there for you when you need us the most.

- Large inventory of parts
- On-site installation and training
- Lifetime remote technical support

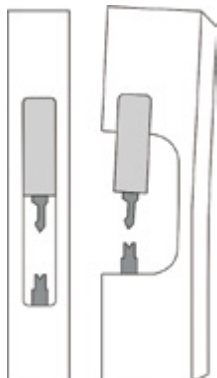
ELECTRIC PRESS BRAKES



The Electric Press utilizes synchronized servo motors and a belt-pulley mechanism to generate pressing force. The motors apply tension on the belt, multiplying the force across its segments. Mechanical springs at the machine's side are compressed during pressing and then recoil, pushing the ram to its programmed top position.



O-Frame **Conventional Frame**



The Electric Press utilizes a closed O-frame system, which ensures a sturdy frame that remains undistorted even when subjected to significant forces. As a result, it offers improved alignment for tools and enables more precise bending.



ENERGY EFFICIENT

Compared to hydraulic press brakes, the Electric Press Brake exhibits a remarkable 50% reduction in energy consumption.



SHORTER RESPONSE TIME

When compared to hydraulic press brakes, the Electric Press Brake demonstrates a speed improvement of up to 30%. Its ability to quickly change directions contributes significantly to its shorter response time, which is one of its key advantages.



ENVIRONMENTALLY FRIENDLY MACHINE

By utilizing 100% electrical power instead of hydraulic oil and components, the Electric Press Brake minimizes pollution and offers an optimal solution for reducing environmental impact.



INCREASED PRODUCTIVITY

With its high acceleration and deceleration capabilities, the Electric Press Brake enables swift changes in movement direction, resulting in increased productivity and efficiency. Additionally, its low maintenance requirements contribute to its cost-effectiveness.



INNOVATIVE CONCEPT

As a flexible, reliable, and advanced bending machine, the Electric Press Brake combines high accuracy, flexibility, and reliability. This innovative concept not only ensures precise bending but also minimizes power consumption, reduces maintenance needs, and eliminates the use of hydraulic oil or components.



OPERATES SILENTLY

The Electric Press Brake's working system operates noiselessly, providing a quiet working environment.

NO

NOISE
HYDRAULIC OIL
HYDRAULIC FILTER
HYDRAULIC SEALS

VALVES
CYLINDERS
DWELL TIMES

HYDRAULIC PRESS BRAKES



*Capacity from
40 to 2000 tons*



STANDARD FEATURES

AXIS BACK GAUGE (X, R) BACK/FORWARD – UP/DOWN

- Linear guided X axis
- CNC Controlled
- Ball screw X axis with 19.6" (500 mm)
- Maximum X axis gauging: 30.1" (765 mm)
- Repeat accuracy $\pm 0.0012"$ (± 0.03 mm)
- Parallel accuracy $\pm 0.004"$ (± 0.1 mm)



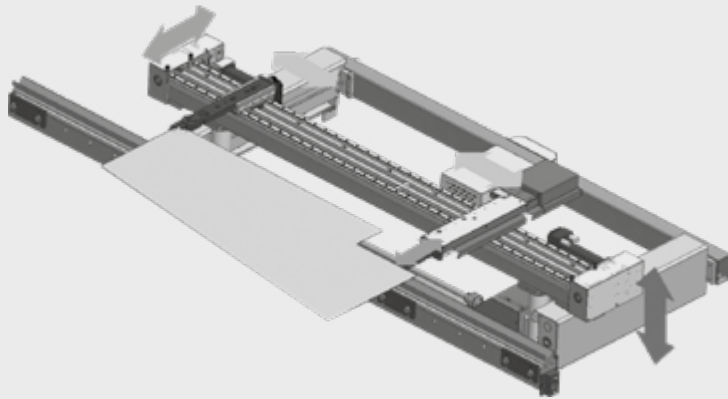
MULTI STEP FINGER DESIGN

Facilitates easier bending of long flanges and extends the limit of the X axis.

Step 1
20.3" (517.5 mm)

Step 2
22.2" (565 mm)

Step 3
30.1" (764 mm)



DELEM 66T CNC CONTROLLER

Automatic bending sequences – advanced technology.

- 2D graphical touch screen programming mode
- 3D visualization in simulation and production
- 17-inch TFT high-resolution colour
- USB interface
- Open architecture
- Sensor bending and correction interface



www.delem.com

STANDARD FEATURES

CNC CROWNING

The ability to shape the material with accuracy and consistency allows for the creation of complex patterns or curves.



LINEAR GUIDED FRONT SHEET SUPPORTS

- Additional support for wider sheets
- Disappearing rocker stops and inch/mm metal scales for easy measurement



SAFETY



Safety fence door enables access to the rear of the press. If the door is opened, the machine stops.



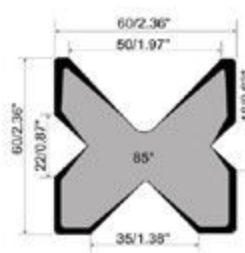
Finger safety system offers additional layer of protection and adjusts to material thicknesses and tooling set up.

TOOLING CONFIGURATION

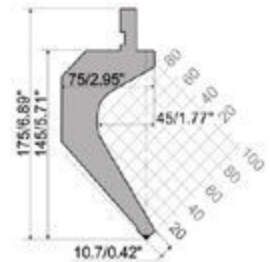


Ask about other tooling options

Bottom die



Top punch





Emergency stop
foot pedal



Quick clamping



Electrical cabinet
ventilated system



Automatic
lubrication



Oil cooling system



Led overhead
working lights



2 years warranty
on parts and labor



CSA and UL
approved

OPTIONS AVAILABLE

BACK GAUGE AXIS



4-Axis X-R-Z1-Z2

The X1-X2-R1-R2-Z1-Z2 allow maximum speed and accuracy via step bending and multiple tool configurations.

5-Axis X-XPRIME-R-Z1-Z2

The X-XPRIME-R-Z1-Z2 setup allows tapered bends.

6-Axis X1-X2-R1-R2-Z1-Z2

The X1-X2-R1-R2-Z1-Z2 allow maximum speed and accuracy via step bending and multiple tool configurations.

OPTIONS AVAILABLE

DELEM 69T CNC CONTROLLER

- Same features as Delem 66T
- 3D and 2D graphical touch screen programming mode

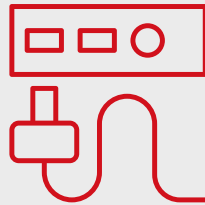


CNC SHEET SUPPORT FOLLOWERS

For wide and heavy material



REAL TIME PRODUCTION MONITORING



CONNECT

Technology that quickly and easily connects to any piece of equipment, instantly tracking manufacturing production.

MEASURE

A real time production monitoring dashboard empowering all shop floor personnel with accurate insights for informed decision-making, fostering a culture of performance and accountability

IMPROVE

A virtual advisor that automates the analysis of your production data and transforms it into tangible opportunities for improvement ranked according to the highest impact on your bottom line.

INCREASED DAY LIGHT/STROKE

- A 30% increase in the cylinder's running distance provides a greater range of motion
- The opening is also extended by 30% allowing for a longer reach



INCREASED THROAT DEPTH

- A 30% increase in the throat depth to 1500mm results in expanded capacity.



OPTIONS AVAILABLE

AUTOMATIC PNEUMATIC CLAMPING

Automatic clamping offers advantages such as efficient and safe tool handling and significantly reduced set up time.



TANDEM PRESS BRAKE CONFIGURATIONS

Tandem press brake configurations are ideal when there is a requirement for long bends.



LASER ANGLE MEASURING DEVICE

Ensures precise bending accuracy with automatic feedback.



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