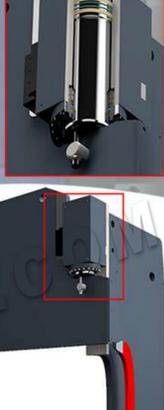


WE67K-GENIUS

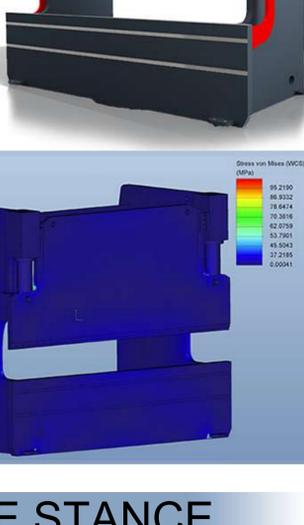
CNC Electro-hydraulic Press Brake



RIGID FRAME CONSTRUCTION & DUAL HYDRAULIC CYLINDERS

The foundation of every HARSLE press brake is a solid, mono-block frame made from mill certified, high-yield steel. As a result our press brakes perform accurately and reliably year after year. We're so confident in our frames that we offer a 10-year warranty with our standard machines.

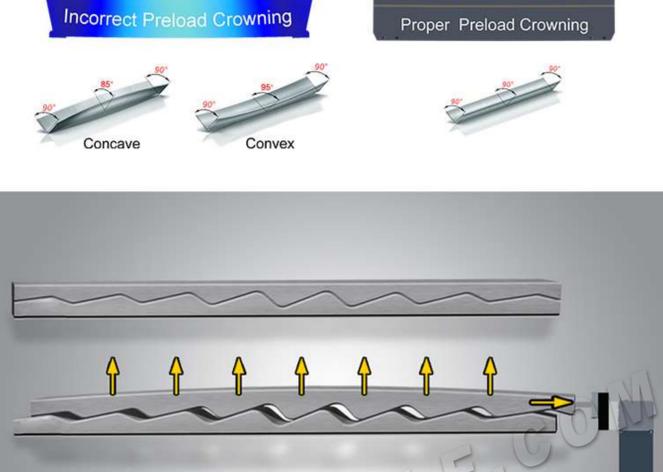
Dual hydraulic cylinders located on either side of the ram provide faster approach speeds. The cylinders are synchronized to provide smooth motion resulting in precise ram positions to accuracies of .0004"



WIDE FRAME STANCE

HARSLE made press brakes can easily accommodate parts with deep bends and that require long tooling because of our open space design. Our machines typically have deeper throat depths, larger daylight spaces and longer stroke lengths than any manufacturer in the market.

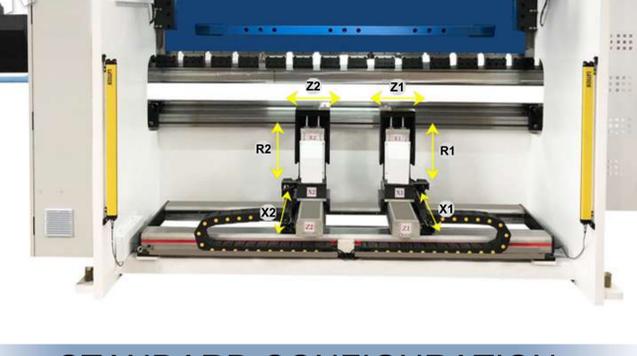
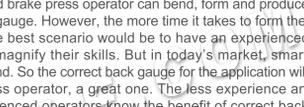
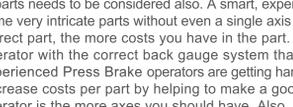
We've also mounted the RAM GUIDING on the outside of the frame to maximize the distance between the side frames allowing our brakes to accommodate deep part flanges.



CROWNING SYSTEM

Manual and CNC crowning ensures a constant bend angle across the full length of the machine. This is achieved by pre loading the machine, to offset any possible deflection under load or compensate for any tool wear, so that under load contacting surfaces are parallel to each other.

With CNC crowning systems the press brake control is preprogrammed with machine characteristics and deflection data. With manual crowning a simple spread sheet or chart can be easily developed for each application.



Motorized Crowning

Hydraulic Crowning



BACK GAUGE SYSTEMS

The correct back gauge for the application can have a substantial positive influence on production part volume and accuracy. The more intricate the parts, typically the more axes on the back gauge you should have. Volume of parts needs to be considered also. A smart, experienced brake press operator can bend, form and produce some very intricate parts without even a single axis back gauge. However, the more time it takes to form the correct part, the more costs you have in the part. So the best scenario would be to have an experienced operator with the correct back gauge system that will magnify their skills. But in today's market, smart, experienced Press Brake operators are getting hard to find. So the correct back gauge for the application will decrease costs per part by helping to make a good press operator, a great one. The less experience an operator is the more axes you should have. Also, experienced operators know the benefit of correct back gauge for applications. HARSLE is here to consult with you on your application requirements.



STANDARD CONFIGURATION

DA-66T Controller

- 2D touch graphical programming
- 3D product graphical simulation shows
- 17"high resolution TFT color display
- Full windows application package
- Compatible DELEM modular structure
- Angle detection sensor interface
- User program applications in multitasking environments
- USB, peripheral interface



OFFLINE SOFTWARE

Profile-T

- Full scale offline programming
- Graphical product programming and bend sequence generation
- Feasibility studies and production preparation
- 2D/3D automatic bend sequence calculation
- Collision detection
- Product sharing over Windows networking with press brake CNC
- Machine setup preparation including print functionality
- Production time calculation

Offline software offers a number of other powerful features, such as an auto tooling, which will select the appropriate tooling to be used according to the machine type and 3D model, thus generating a collision free bending sequence. A fully animated bend simulation with collision checks

allows the operator to inspect and correct in detail the detected collisions, thanks to the graphic interface. Graphic tool layouts allow modifications to be made with ease to tooling, and bend reports provide 3D views of each bend. The back gauges can also be viewed in the 3D visual representation window; changes to their positions can therefore easily be made.

PRODUCT DETAILS



Front Arms

- Movable in different directions.



Segmented Bending Toolings

- Extremely fast press brake tooling changes.



Fast Clamps

- Extremely accurate clamping, positioning and alignment.



KACON Foot Switch

- South Korea brand foot switch is movable and can stop the machine any time by the emergency button.



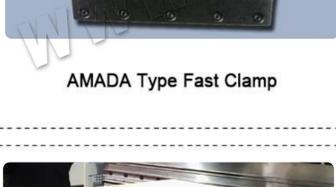
Light Curtain

- Light curtains on each side can protect the user during operation.



Ball Screw and Linear Guide

- HIWIN From Taiwan.



Servo Motor

- From world famous brand YASKAWA, working fastly with high accuracy.



Linear Encoder

- Spanish FAGOR can get high performance.



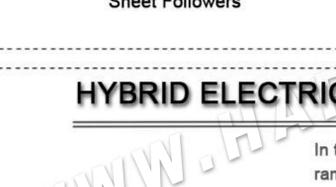
Schneider Electric Components

- High quality electric parts can perform well even the electricity is not stable and customers can easily get the replacement anywhere in the world.



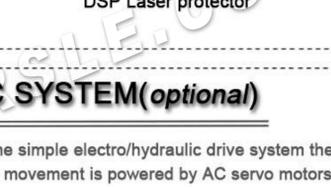
SIEMENS Motor

- German famous motor improves the lifespan of the machine and keeps the machine working in low noise environment.



Proportional Valve

- Rexroth from Germany.



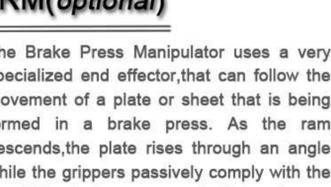
Hydraulic Pump

- Voith from Germany.

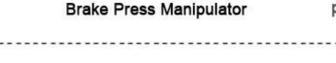
OPTIONAL CONFIGURATION



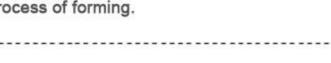
Special Punch and Die



Hydraulic clamping System



AMADA Type Fast Clamp



KYOKKO Type Fast Clamp

Sheet Followers

DSP Laser protector

HYBRID ELECTRIC SYSTEM (optional)



Electro/hydraulic drive

In the simple electro/hydraulic drive system the ram movement is powered by AC servo motors driving hydraulic oil in line with a variable speed pump. This new technology provides:

- Energy Savings:
- 62% During Idle
- 44% During Cycle
- Lower Per Part Cost
- Noise Level Reduction 76dba to 63dba
- Increased Ram Speeds (up to 472 IPM)
- Better Accuracy
- 60% Reduced Oil Requirements
- Five Times Better Y1, Y2 Synchronization at High Speed

ROBOTIC ARM (optional)

Brake Press Manipulator

The Brake Press Manipulator uses a very specialized end effector, that can follow the movement of a plate or sheet that is being formed in a brake press. As the ram descends, the plate rises through an angle while the grippers passively comply with the travel. The brake press manipulator allows a single operator to perform operations that would normally require 2 workers. Typically the sheet is turned over 180 degrees in the process of forming.