



DENER PRODUCTS

- Press Brake
- Guillotine Shear
- Corner Notcher

PRESS BRAKE

DENER SMART XL CNC

DENER SMART XL CNC economical, stronger, faster accurate new model. Smart XL Press brake targets small and medium size sheet metal working companies.



The most important features of Dener Smart XL are;

- Faster working speeds,
- Higher Bending power ,
- Deeper throat depth,
- Higher stroke and daylight,

Dener Smart XL CNC is a synchronized hydraulic press brake with numerical CNC controllers. It offers simple operation, quick and easy part programming, easy setup of the machine, auto calculation of the bend angle, and back gauge correction. 2D offline programming feature which comes with ESA 530 Controller gives possibility to end users to complete

bending program on Office PC and transfer to machine by LAN or USB. These functions make Dener Smart XL CNC Hydraulic Press Brake very popular among users. Dener Smart machine has more advanced futures than its competitors. Some of these features are: a strong and complete mono block welded frame, longer stroke and longer distance between frames, deeper throat depth, and a higher working table.

CNC CONTROLLERS



- Numerical 7" LCD TFT display (800 x 480 pixels resolution).
- 128 MB Silicon Disk.
- 32 KB of FR AM (no battery backup required).
- 51 keys IP 65 keyboard (33 general purpose keys plus + 18 function place on the near of the display).
- 1 serial port RS 232. • 1 CAN port with 9 pins SubD F connector.
- 1 Ethernet port 10/100 Mbit (Lan connection)
- 1 VGA port for external monitor connection
- 2 US B (2.0) ports.

Software features

- Programming of the axes positions in tabular mode with automatic syntactical checks, angular programming, automatic calculation of the R and A positions and of the bending and crowning tonnage.
- 2D graphic editing for punches and dies.
- Graphical drawing (Optional)
- Automatic bend sequence calculation (Optional)
- Manual Bend Page (single Bend, no program interruption)
- All programs, tools description, parameters can be stored on the internal memory or on USB memory stick. These files can be exchanged with other CNC and PC trough USB memory stick.
- Complete graphic off-line programming on a standard PC, trough a simulation program.
- Customizable alarm messages.

DENER PUMA XL CNC

DENER PUMA XL CNC Press Brakes are born with the goal to be flexible, reliable, and advanced bending machines; Dener utilizes the most stringent manufacturing technologies during production to manufacture the highest quality machines. Based on proven design, Dener has increased working speeds, stroke, daylight, and pressing capacities of Puma XL machines.



DENER PUMA XL is a synchronized hydraulic press brake with a 2D graphical CNC controller and offers simple operation, quick and easy 2D or numerical part programming easy setup of the machine, and auto calculation of the bend sequence. 2D offline programming feature with S 560 PC Controller gives the possibility to end users to complete bending program on an Office PC and transfer to machine by LAN or USB. These functions make Dener PUMA XL CNC Hydraulic Press Brakes very popular in sheet metal industries.

CNC CONTROLLERS



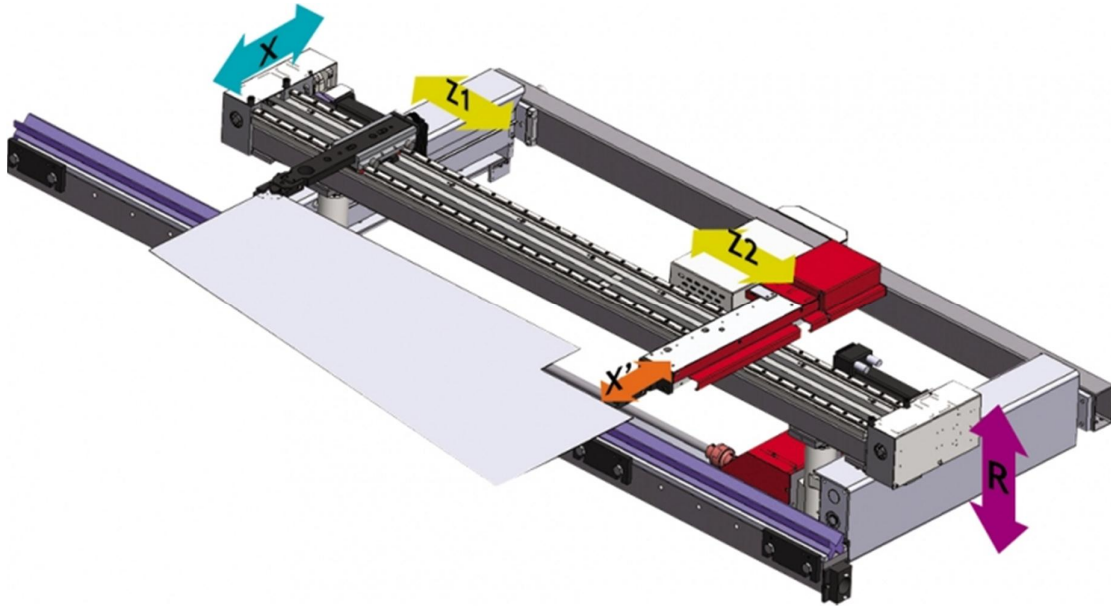
Dener S 560 PC controllers offer a higher grade of efficiency in programming, operation, and control of Dener press brakes. The touch screen gives access to easy programming and operation of the machine functions, which are directly located where you need them. Dener S 560 PC CNC Controller offers 2D programming that includes automatic bend sequence calculation and collision detection.

S 560 PC CNC Controller features

- 2D graphical touch screen programming mode
 - 3D visualization in simulation and production
 - Bending correction database
 - 19" high resolution color TFT
 - Windows XP Pro
 - Hand wheel for axis movement
- 2 pcs USB port 2 pcs ethernet port 2 pcs Serila Port

DENER BACK GAUGE SYSTEM

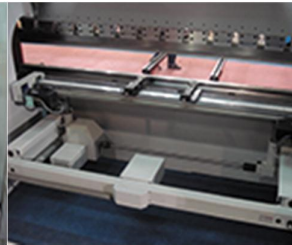
Gauging is a main concern for press brake operators. Whether you require complex part multi station bending or single bending or production of taper bends Puma XL offers solution with 6 different back gauge options to its customer. Depending on the geometry of the parts and their complexity, all back gauge models are particularly manufactured to reach high precision and high speeds. The models which we offer to our customers are;



- Standard Puma XL back gauge
- X - R type back gauge (standard) Ball Screw for X axis, double linear guide for X axis. 650 mm X axis stroke, 160 mm R axis stroke 2 Pcs back gauge finger manual lateral movement on linear guides Positioning accuracy: +0,03 mm Repeat accuracy: +0,03 AC servo motors for X and R axis Optional back gauge axis -X-X'-R TYPE BACK GAUGE (tilting from finger)
- X1 X2 R TYPE BACK GAUGE (Tilting from the bar)
- X-R-Z1-Z2 TYPE BACK GAUGE (Individual Finger movement from CNC)
- X-X'-R-Z1-Z2 TYPE BACK GAUGE (Individual Finger movement from CNC and X movement from finger + 100 mm)
- X1 X2 R Z1 Z2 TYPE BACK GAUGE (Tilting from the bar and individual finger movement)
- ATF Type 6 axis back gauge X1 X2 R1 R2 Z1 Z2 independent finger movements.



X1-X2-R Type Back Gauge



X-R-Z1-Z2 Type Back Gauge



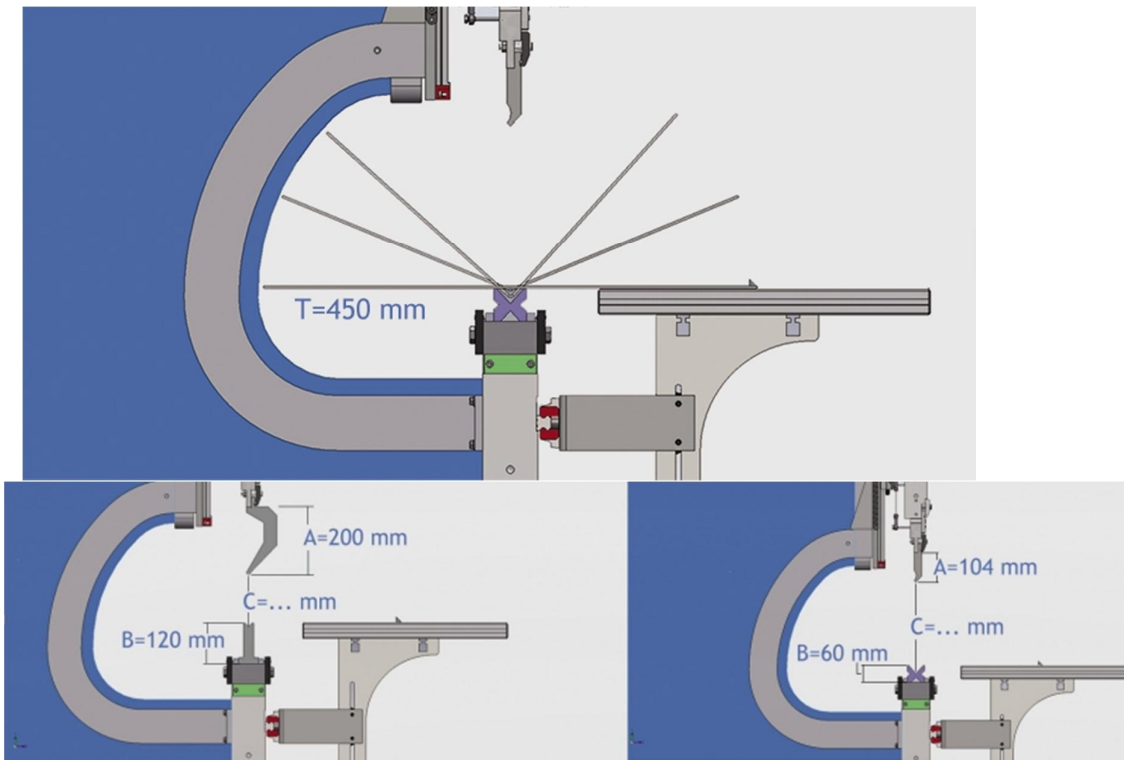
X1-X2-R-Z1-Z2 Type Back Gauge



ATF Type 6 Axis Back Gauge

STROKE, DAYLIGHT & THROAT

Operators can easily use higher punches and dies and have enough stroke and daylight to manipulate the sheet metal easily. Higher punch lets operators bend deep boxes and higher V gives the possibility to bend negative edges.



Deep Throat is always a big advantage for press brake operators. To use the full bending length without any collision with side frames Dener design Puma XL machines with a deep throat. Operators can bend up to 30 degrees and depend on the model's 450 mm deep parts without any collision in full bending length. Dener offers special throat depths as an option.

GUILLOTINE SHEAR

NC SWING BEAM SHEAR

Easy, accurate, rock solid welded steel construction proven design that thousands of customers across the world have come to rely on.



Dener Swing Beam Shears are starring from 6 mm up to 20 mm thickness and cutting length from 2 m up to 6 m as a standard and according to the special demanded higher capacity machines are available.

Main features of the Swing Beam Shears are; NC controller for Back Gauge, single point manual blade gap adjustment, 1000 mm motorized ball screw back

gauge, cutting length adjustment by timer, 1 m flip up front guarding, Sheet support arms and squaring support, sheet slider table and back slider.

NC CONTROLLERS

The HT 071 is a very compact, simply programmable single axis controller for swing beam shear. This unit has back gauge control, retract, and stroke counter and program memory up to 99 programs with 20 steps. Back gauge axis control is two speed AC control. Referencing is not necessary controller always remember the last position. The back gauge can be moved manually by selecting push buttons in 2 different speeds. Total working hours and total cut counter is also standard with controller.



- HT 071 Featuring
- LCD display
- Back gauge control
- Actual position visualization
- Stock counter
- Program memory up to 99 parts
- Programmable up to 20 steps
- Panel-based housing
- User-friendly one-touch programming
- Retract
- Semi automatic and automatic function.
- Stroke limitation

DENER CNC GUILLOTINE SHEAR

Provide, rock solid mechanics, hydraulic, accurate ball screw back gauge, user friendly CNC Controller high productive shearing machines. Dener Shears are starting from 6 mm up to 20 mm thickness cutting length from 3 mt up to 6 mt as a standard and according to the special demanded higher capacity machines are available.



Dener Guillotine Shears have strong welded steel construction suitable for long operation time. The design of the frame, cutting beam and back gauge to ensure highest rigidity and resistance to torsions and deformations. With the strong design customers can get maximum cutting quality.

With Easy to use CNC controller operator enters the thickness and the type of the material and controller automatically adjust the cutting angle and blade gap.

CNC CONTROLLERS



Dener 530 CNC Controller Features

- Bright LCD display
 - Back gauge control
 - Blade Gap control
 - Cutting angle control
 - Cutting length adjustment
 - Actual and programmed position visualization
 - Stock counter • Programmable up to 100 steps
 - Panel-based housing
 - Positioning correction
 - Retract
 - Function outputs
 - Step repetition
 - Inch/mm selection
 - Numerical 7" lcd tft display (800 x 480 pixels resolution).
 - 128 MB silicon disk.
 - 51 keys ip65 keyboard (33 general purpose keys plus + 18 function place on the near of the display).
 - 2 serial port rs232.
 - 1 Can port with 9 pins subd f connector.
- 1 ethernet port 10/100 Mbit (lan connection)
 - 1 VGA port for external monitor connection
 - 2 USB (2.0) ports.
 - 24Vdc power supply

CORNER NOTCHER

THE FIXED ANGLE NOTCHING MACHINE

Have been designed to meet the needs of quality, economical price and productivity for mild steel up to 6 mm thick.



The Fixed Angel Notching Machine, with fixed 90° angle is also robust welded structure capable of supporting even sizeable loads. The cutting beam is well guided, the work table is equipped with very precise gauge and stops which are adjustable. The configuration of the cutting head allows cutting of square or rectangular strips of up 200 mm. maximum cutting thickness is up to 6 mm mild steel.

Hold down pads ensures the fixing of the sheet metal during cutting operation. The work table is equipped with very precise gauge and stops which are adjustable. The configuration of the cutting head allows cutting of square or rectangular strips of up 200 mm.

THE VARIABLE ANGLE NOTCHING MACHINE

Have been designed to meet the needs of quality, economical price and productivity for mild steel up to 6 mm thick.



The Variable Angle Notching Machine, with variable angle from 30° to 140°, boasts a robust welded structure capable of supporting even sizeable loads. The cutting beam is well guided and blade slack is adjusted mechanically via two hand wheel system at the front of the machine. The hydraulic clamping acting on the blades ensures the positioning of the selected cutting angle.

Hold down pads ensures the fixing of the sheet metal during cutting operation. The work table is equipped with very precise gauge and stops which are adjustable. The configuration of the cutting head allows cutting of square or rectangular strips of up 200 mm.

BASIC QUESTIONS TO ASK

- **For the Press Brake**
 1. Material you will Bend?
 2. Length of the material you will bend?
 3. Thickness of material you will bend?
 4. Minimum Flange to bend?

- **For the Guillotine Shear**
 1. Material to cut?
 2. Length of the material?
 3. Thickness of the material?