DENER MAKİNA was established in 1974 in Kayseri / TURKEY. It has been manufacturing sheet metal working machines like Fiber Laser Cutting, Servo Electric Press Brake, Ball Screw Press Brake, Hydraulic Press Brakes, Hybrid Press Brake, NC - CNC Hydraulic Shears and Plasma Cutting machines.

Dener Makina's production facilities are located in the industrial and Freezone Area in Kayseri. Since its beginning, Dener has the philosophy of production with the best quality and latest technology. It crowns this with the ISO 9001 Quality Management System and following European Safety Standards. Dener Makina is a leading Turkish Brand in Sheet Metal Working Machinery. It has qualified workmanship and a complete machinery manufacturing facility in its 30,000 m2 closed area. Today, Dener machines are working all around the world.
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 3D Graphical CNC controller and offers simple operation, quick and easy 3D or numerical part programming easy setup of the machine, and auto calculation of the bend sequence. 3D and DXF programming feature with ESA S 660 W Controller gives the possibility to end users. These functions make Dener PUMA XL CNC Hydraulic Press Brakes very popular in sheet metal industries.

* Some optional equipment was used on the machine photo.
STANDARD EQUIPMENT

- 2 (X,R) Axis Back Gauge
- Manual Crowning
- ESA S 660 W Control Unit
- Front Support Arms
- European Type Sectioned Punch
- European Type Sectioned V Die
CONTROLLERS

**ESA S 660 W CONTROLLER**
- 19” 4:3 high-resolution 3D touch screen
- 2.5” Hard disk drive 20GB or more
- Fiber optic interface
- 3D Programming
- Direct import of tools shapes (.dxf files)
- Automatic bending sequence search and collision control
- Remote access
- Windows 7 operating system

**CYBELEC MODEVA15T**
- 15” colour touch screen
- Multi-simulation capability
- On-screen finger profile drawing
- Very simple and convenient data transfer
- Automatic bend listing
- EC safety-cycle management
- Ethernet for easy communication

**DELEM DA-66T**
- 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- 17” high resolution colour TFT
- Full Windows application suite
- Delem modusys compatibility
- USB, peripheral interfacing
- User specific application support with in the controllers
- Multitasking environment
- Sensor bending & correction interface

**DELEM DA-69T**
- 3D and 2D graphical touch screen programming mode
- 3D visualisation in simulation and production
- 17” high resolution colour TFT
- Full Windows application suite
- Delem modusys compatibility
- USB, peripheral interfacing
- User specific application support with in the controllers
- Multitasking environment
- Sensor bending & correction interface

Optional Equipment:
- Motorized Crowning
- Hydro Mechanical Crowning

Laser Angle Measurement 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.

**Standard Back Gauge Systems**
- X - R CNC axes
- Ball screw driven X axis
- Two linear guides per ball screw
- 750 mm X axis stroke (1040 mm total gauge distance)
- 250mm R axis stroke
- Positioning accuracy of X axis ± 0.03mm

**Optional Back Gauge Systems**
- X1, X2, R
- X, R, Z1, Z2
- X, X', R, R1, Z1, Z2
- X1, X2, R, Z1, Z2
- X1, X2, R1, R2, Z1, Z2 (ATF TYPE)
PUMA XL - SMART XL

- Deeper Throat Depth
- Higher Stroke Longer Daylight
- Linear Guided Stronger Front Supports (175 Tons and above machines)
- Stronger Beam Guiding System to stabilize the beam
- Double Linear Guided Stronger Back Gauges
- Linear Guided Stronger Back Gauge X Movement

www.dener.com
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DENER HAS THE RIGHT TO MAKE MODIFICATIONS IN TECHNICAL PROPERTIES WITHOUT GIVING ANY NOTIFICATION.
The DENER SMART XL CNC is an economical, strong, fast and accurate new model. The 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
- Greater bending power
- Deeper throat depth
- Bigger stroke and day light

The DENER SMART XL 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. The 2D off line programming feature of the ESA 630 control gives possibility to complete bending programs on the Office PC and transfer them to the machine by LAN or USB. This feature is popular for end users not interested in more expensive off line CAD/CAM bend softwares. The SMART XL has more advanced features 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.

* Some optional equipment was used on the machine photo.
STANDARD EQUIPMENT

ESA S 630 CONTROL UNIT
- 10” colour touch screen
- Automatic bend listing
- Easy programmable 2D graphic display.
- 2D graphic display of machine frame, work-piece and tools.
- Up to 4 axes (Y1,Y2, and 2 auxiliary axes)
- Multiple language options
- Multiple simulation
- Remote access
- 128 MB silicon disk.

European Type Sectioned Clamping System

Stronger Front Support Arms

European Type Sectioned Punch

European Type Sectioned V Die
BACK GAUGES

Single (X) Axis Back Gauge (Standard)

2 (X,R) Axis Back Gauge (Optional)

Single (X) Axis With Additional Finger (Optional)
## SMART XL

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*Note: DENER has the right to make modifications in technical properties without giving any notification.*

[Image of machine diagram]
“EXCEED YOUR EXPECTATIONS”

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SPECIAL BENDING SOLUTIONS

Multi V Die

Wide Table

Adjustable V Die

DE SP-04
DE SP-12
DE SP-19
DE SP-20
DE SP-21
DE SP-38
DE SP-14
DE SP-48
DE SP-49
DE SP-58

Throat Depth Options as
500 mm
600 mm
750 mm
850 mm
1000 mm
1250 mm
1500 mm

ACCESSORIES

SMART XL

OPTIONAL EQUIPMENT

DE SP-04
DE SP-12
DE SP-19
DE SP-20
DE SP-21
DE SP-38
DE SP-14
DE SP-48
DE SP-49
DE SP-58

SAFETY

CE Safety System with Laser Beam

Akas III
Motorized CE Laser Beam Safety System

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OPTIONAL TOOL CLAMPING SYSTEMS

- Dener Type Pneumatic Clamping System
- Manual Quick Clamping System
- Wila NSCL-II-HC/UPB Premium Hydraulic Punch Clamping
- Wila NSCL-I-HC/UPB American Type Hydraulic Clamping
- Wila OB-I-MC-TY/ES IV Mechanical Die Clamping
- Wila NSCL-II-HC-CNC/UPB Hydraulic Die Clamping
- Wila ASCL-I-HC/UPB American Type Hydraulic Clamping
- Wila NSCL-I-HC/UPB Hydraulic Punch Clamping
- Wila 0B-I-MC-TV/ES IV Mechanical Die Clamping
- Wila NSCR-II-HC-CNC/UPB Hydraulic Die Clamping

ACCESSORIES

SMART XL

PUMA XL

Double Linear Guiding System to Stabilize the Ram
OPTIONAL EQUIPMENT

- Hydraulic Oil Cooling System
- Electrical Cabinet Cooler
- CNC Controlled Sheet Followers (Puma XL only)
- Additional Back Gauge Fingers for 2-3-4-5-6 Axis Back Gauge
- Tandem Preparation
Special Projects
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