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CNC ELECTRIC SERVO BRAKE



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 it's beginning, Dener has had the philosophy of production with the best quality and high 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 it's 30.000 m2 closed area. Today, Dener machines are working all around the world.



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* Some Optional equipments used on the machine photos

SERVO ELECTRIC PRESS BRAKE

Dener Servo Electric Press Brakes are no-hydraulic, flexible, reliable and advance bending machines. Next generation machine idea combines green-eco firendly machines productivity, accuracy, flexibility and reliability. The new concept offers low power consupion, less maintenance, no hydarulic oil for operation.

Dener Electric Press Brake comes with advance CNC controller, fast and accurate punch and die clamping multi axis back gauge system. Operatores simply make perfect sheet metal parts with very low cost.

Dener utilizes the most stringent manufacturing technologies during the production to manufacture highest quality machines. Standard Dener electric press brake comes with 3D grahical CNC controller offers simple operation, quick and easy 3D or numerical part programming easy setup of the machine, auto calculation of the bend sequence. Optional 3D offline programming feature which is gives possibility to end users to complete bending program on Office PC and transfer to machine by LAN or usb.

“EXCEED YOUR EXPECTATIONS”



MODEL	BENDING CAPACITY (t)	BENDING LENGHT (mm)
DDM-4015	40	1530
DDM-5020	50	2040
DDM-8025	80	2550
DDM-10030	100	3050

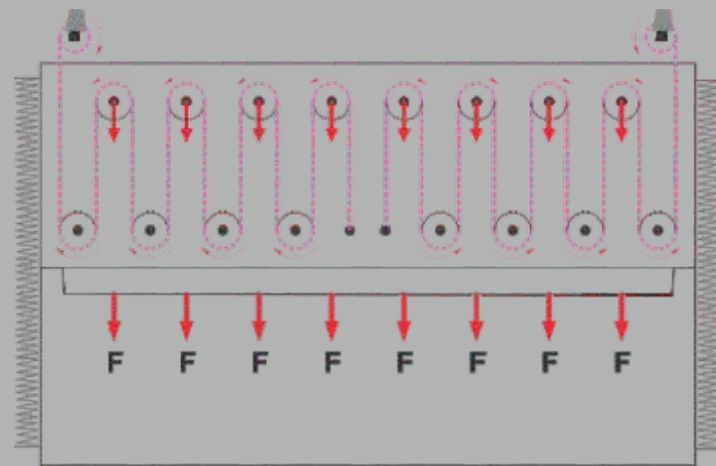
Pays
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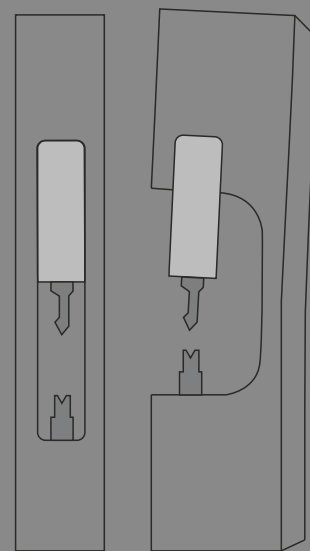
HOW SERVO ELECTRIC PRESS BRAKE WORKS

Servo Electric Press Brake pressing force by means of synchronized 2 servo motors which transfers the power by the help of special belt and pulleys. During the upper beam down movement servo motors coil the belt to the main pulley and applies the bending force. For return force is mechanical and it comes from the springs which is located on the both side of the machine. After bending servo motors starts to decoil the belt and springs push the upper beam to the program TDC position.



Servo electric press brake has close O-frame system and this brings a rigid frame and no deformation under large forces. This brings accurate bending results.

O-Frame Conventional Frame



STANDARD EQUIPMENT



ESA S 660 W
Controller



Europen Type V Die Holder



Europen Type Punch Holder



Electrical Cabinet
Cooling System



Linear Guided Front
Support Arms



X - R Type 2 Axis
Back Gauge



CE Laser Safety System



Foot Pedal with
Emergency Stop Button

OPTIONAL EQUIPMENT



Delem DA 66T-69T
Controllers



Wila Type Punch
Clamping System



Wila Type V Die
Clamping System



Crowning Manual
Adjustment



X R Z1 ve Z2
4 Axis Back Gauge



ATF Type X1 X2 R1 R2 Z1 Z2
Back Gauge



CE Confirmation with
Light Curtain



Sheet Follower



Servo Electric Press Brake provides energy saving up to 50%
Servo Electric Press Brake has %50 energy saving compared with hydraulic press brakes.



Servo Electric Press Brake is faster up to 30%
Servo Electric Press Brake is shown to be up to 30% faster than hydraulic press brake. Shorter response time one of the biggest advantages of servo electric press brake.



Servo Electric Press Brake is eco - friendly machine
Servo uses 100% electrical power instead of hydraulic oil and hydraulic components. Less pollution - best solution.



Servo Electric Press Brake provides high productivity
Servo has high acceleration, high deceleration. The quick change of the moving direction is a advantage for high productivity and efficiency. Servo has less maintenance cost.



Servo Electric Press Brake provides advanced bending
Servo is flexible, reliable and advance bending machine. Servo Electric Press Brake combines high accuracy, flexibility and reliability. This concept offers low power consumption , less maintenance and no hydraulic oil and components for operation.



Servo Electric Press Brake works quietly
Servo working system has no noise and provide silently working conditions.

NO

**NOISE
HYDRAULIC OIL
HYDRAULIC FILTER
HYDRAULIC SEALS
VALVES
CYLINDERS
DWELL TIMES**



BACK GAUGES

OPTIONALS



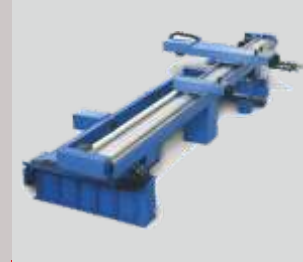
X1-X2-R-Z1-Z2
Type Back Gauge



ATF Type 6 Axis
Back Gauge



X1-X2-R Type Back Gauge

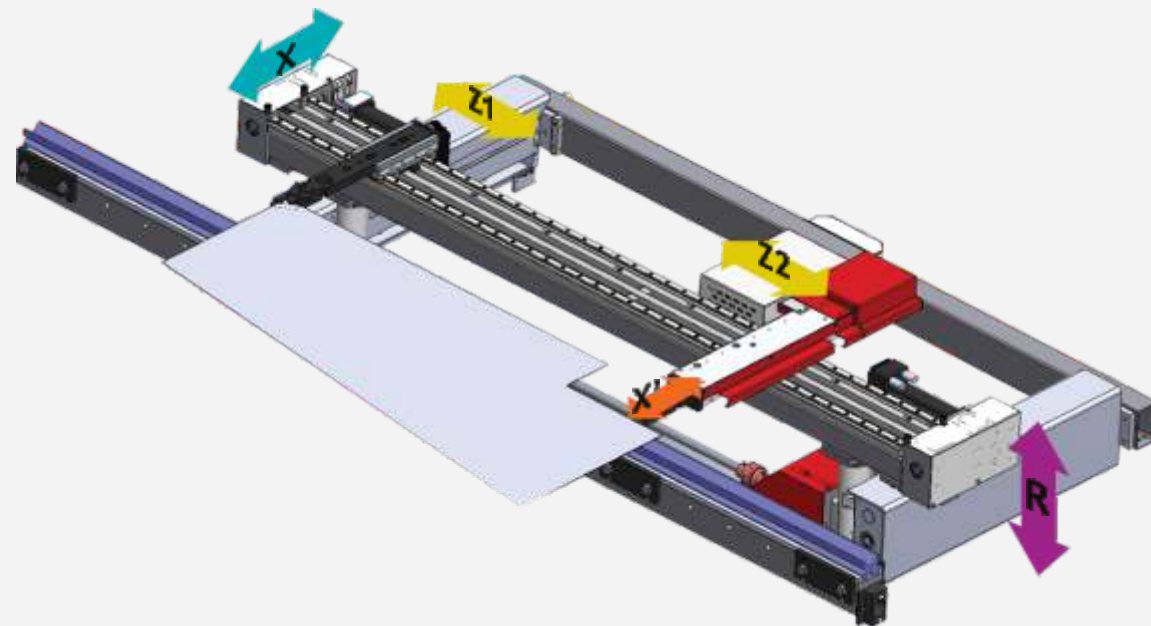


X-Prime Type Back Gauge

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 Servo Electric Press Brake 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.

Optional Back Gauge Systems

- X1 X2 R TYPE BACK GAUGE
- X-R-Z1-Z2 TYPE BACK GAUGE
- X-X'-R-Z1-Z2 TYPE BACK GAUGE
- X1 X2 R Z1 Z2 TYPE BACK GAUGE
- ATF TYPE X1 X2 R1 R2 Z1 Z2 BACK GAUGE



DENER SERVO ELECTRIC PRESS BRAKE BACK GAUGE SPECIFICATIONS

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



X - R - Z1 - Z2 4 AXIS BACK GAUGE OPTION



X - PRIME BACK GAUGE OPTION

CONTROLLERS

STANDARD

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
- 2 USB Port



OPTIONAL

DENER 19" CONTROLLER

- 19" LCD touch screen.
- 3D Bending simulation.
- 2D and 3D programming.
- 3D Drawing feature.
- DXF Import feature.
- Automatic bending sequence search and collision control.
- Enabling Tandem type operational application.
- Windows stili işletim sistemi.
- Uzaktan erişim.
- 2 USB Girişi.



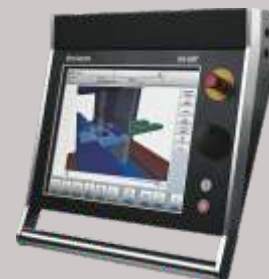
OPTIONAL

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

Servo Electric Press Brakes come with advance CNC controllers, fast and accurate punch and die clamping, multi axis back gauge system. Operators simply make perfect sheet metal parts with very low cost.

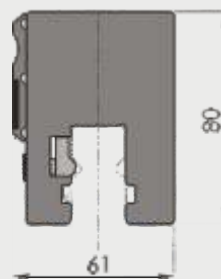


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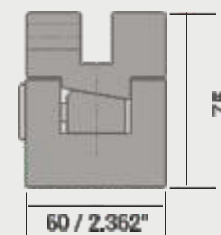
CLAMPING SYSTEMS



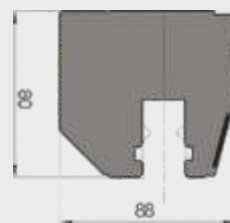
NSCL-I-MC/UPB



OB-I-MC-TY/ES IV



NSCL-I-HC/UPB



NSCL-I-HC-CNC/UPB



Dener Type Pneumatic Clamping System

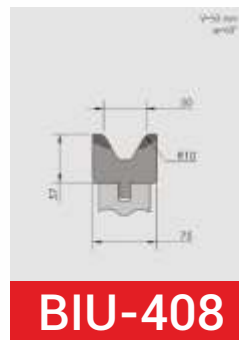
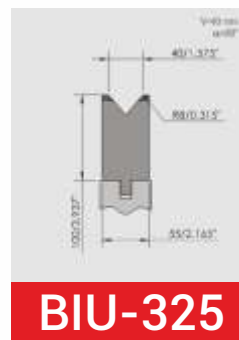
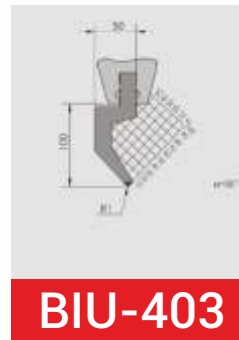
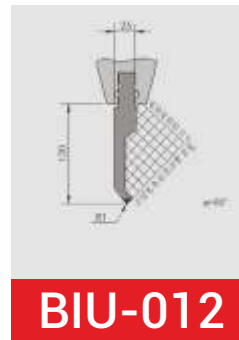
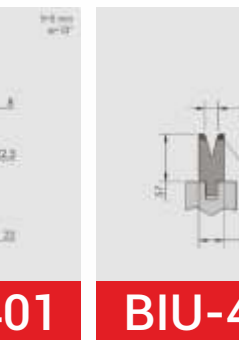
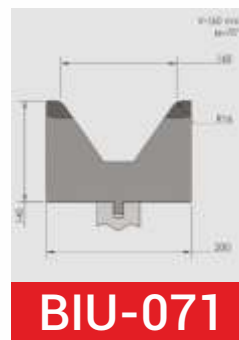
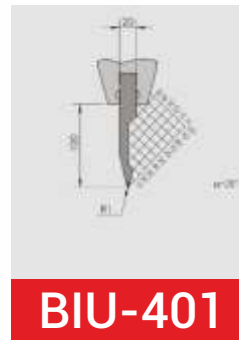
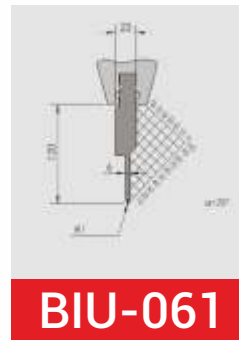
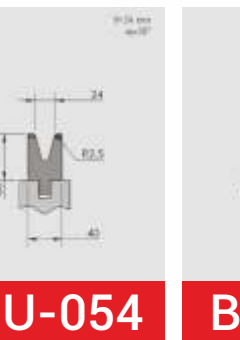
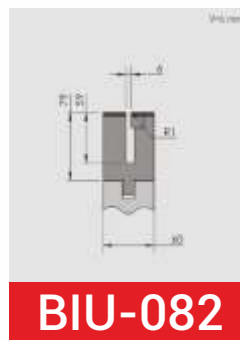
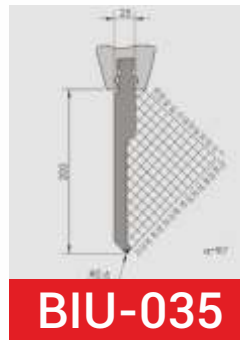
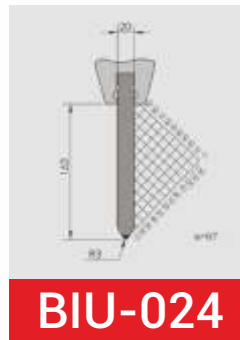
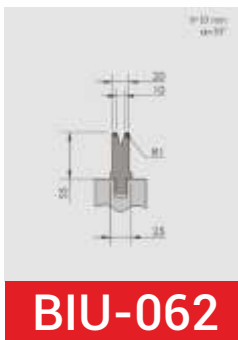
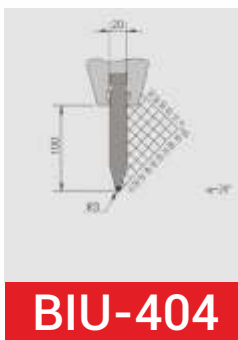
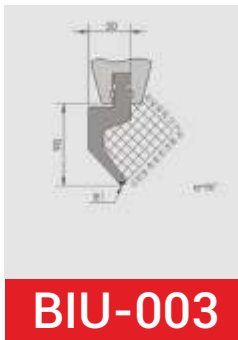


European Type Sectioned Punch Clamping System with Quick Clamping Option

- Extremely fast press brake tooling changes
- Maximum control of vertical tolerances during the bending process
- Extremely accurate clamping, positioning and alignment
- Individual clamping pins for each tool segment for superior clamping force
- Vertical and horizontal tool loading and unloading for maximum speed and safety
- Professional finish, including a slide rule for ease of tool positioning
- Provides maximum productivity



BIU-011

[illegible]

	Bending Length (mm)	Pressure Force (ton)	Max. Stroke (mm)	Daylight (mm)	Approaching Speed (mm/sec)	Bending Speed (mm/sec)	Return Speed (mm/sec)	Main Motor Power (kw)	Weight (kg)	L - Overall Length (mm)	C- Width (mm)	H - Height (mm)	Max. Height (mm)
DD-M-10030	3060	100	300	590	75	20	75	11	6500	4220	1960	2500	2950
DD-M-8025	2550	80	300	590	90	20	90	11	6100	3680	1960	2500	2950
DD-M-6525	2550	65	300	590	130	20	130	11	5500	3680	1960	2500	2950
DD-M-5020	2040	50	300	590	150	20	150	11	4850	3170	1960	2500	2950
DD-M-4015	1530	40	300	590	170	20	170	11	4600	2660	1960	2500	2950