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CNC ELECTRICAL
SERVOBRAKE



ABOUT US

DENER MAKINA was established in 1974, in Kayseri / TURKEY. It has been manufacturing sheet metal working machines like CNC Servo, Hybrid and Hydraulic Press Brakes, NC - CNC Hydraulic Shears, CNC Fiber Laser 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

MODEL	BENDING CAPACITY (t)	BENDING LENGTH(mm)
DCM 4015	40	1530
DCM 5020	50	2040
DCM 6025	65	2550
DCM 10030	100	3060

eco friend

DENER CNC SERVO BRAKE

DENER CNC Servo Brakes are no-hydraulic, flexible, reliable and advance bending machines. Next generation machine idea combines green-eco friendly machines productivity, accuracy, flexibility and reliability. The new concept offers low power consumption, less maintenance, no hydraulic oil for operation.

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

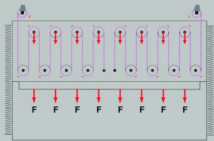
Dener utilizes the most stringent manufacturing technologies during the production to manufacture highest quality machines. Standard Dener electrical press brake comes with 2D graphical CNC controller offers simple operation, quick and easy 2D or numerical part programming easy setup of the machine, auto calculation of the bend sequence. Optional 2D 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.

Expand your
horizon !

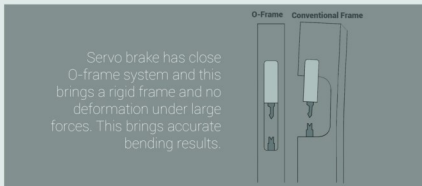
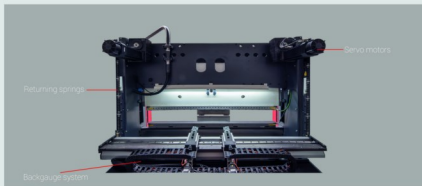
eco friend



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Servo 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 o the machine. After bending servo motors starts to decoil the belt and springs push the upper beam to the program TDC position.



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

SERVO BRAKE



NO

- NOISE
- HYDRAULIC OIL
- HYDRAULIC FILTER
- HYDRAULIC SEALS
- PUMPS
- VALVES
- CYLINDERS
- DWELL TIMES



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STANDARD EQUIPMENTS



Dener 19 inch control unit



Dener 19 inch servo for clamping system



Dener 19 inch servo for punch clamping system



Edge clamping system



Steel guided 2 and 4 roll support



12 inch servo 4 and 6 roll guide



CO Laser safety system



TMD servo emergency stop button

OPTIONAL EQUIPMENTS



Dener 22 inch 20 channel Dener DA-027 22



W6 TMD 12 inch servo for clamping system



W6 TMD 12 inch servo for punch clamping system



Clamping height adjustment



AT 20 inch 22 channel guide



AT 20 inch 22 channel 4 and 6 roll guide



Clamping with Light Curtain



Steel follower



Dener Servo Brake provides energy saving up to 50%

Servo has %50 energy saving compared with hydraulic press brakes.



Dener Servo Brake is faster up to 30%

Servo is shown to be up to 30% faster than hydraulic press brake.



Dener Servo Brake is eco - friend machine

It needs 10 times less power instead of hydraulic oil and hydraulic components. Less pollution - best solution.



Dener Servo Brake provides high productivity

Servo has high precision, no vibration. The quick change of the bending direction provides a platform for high productivity and efficiency. Servo has less maintenance cost.



Dener Servo Brake provides advanced bending

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



Dener Servo Brake works quietly

Servo working system has no noise and provides silently working conditions.

NO

NOISE
HYDRAULIC OIL
HYDRAULIC PUMP
HYDRAULIC SEALS
PUMPS
VALVES
CYLINDERS
DWELL TIMES



-
-
-
-
-
-



Some optional equipments used on the machine photos



- eco friendly
- eco friendly
- eco friendly
- servo



BACK GAUGE SYSTEMS

OPTIONALS

X1-X2-R-Z1 Z2 Type Back Gauge



ATF Type 6 Axis Back Gauge



X1-X2-R Type Back Gauge



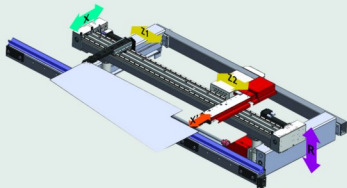
X1-R Type Back Gauge



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 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.

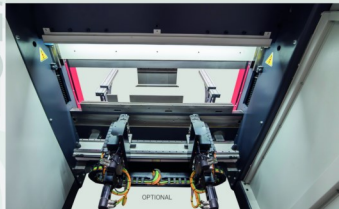
Optional back gauge axis

- X-X1-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-X1-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.



DENER SERVO PRESS BRAKE BACKGAUGE SPECIFICATIONS

X - R type back gauge (standard) Ball Screw for X axis, double linear guide for X axis, 650 mm X axis stroke, 150 mm R axis stroke, 2 Pins back gauge/ finger manual lateral movement on linear guides, Positioning accuracy +0.03 mm, Repeat accuracy +0.03



CLAMPING SYSTEM

NSCL-I-MC/UPB
(Standard)



OB-I-MC-TV/ES IV
(Standard)



NSCL-I-HC/UPB
(Optional)



NSCR-I-HC-CNC/UPB
(Optional)



- 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



TOOLING New Standard Premium



BIU-011



BIU-024



BIU-061



BIU-012



BIU-003



BIU-035



BIU-401



BIU-403



BIU-404



OZU-082



OZU-071



OZU-325



OZU-062



OZU-054



OZU-401

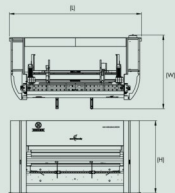


OZU-404



OZU-408

TECHNICAL SPECIFICATIONS



DD-M Series Servo E-Brake Technical Specification

	Braking Length (mm)	Pressure Force (N)	Max. Stroke (mm)	Braking Length (mm)	Approaching Speed (mm/s)	Braking Speed (mm/s)	Return Speed (mm/s)	Power Speed (mm)	Weight (kg)	L-Overall Length (mm)	H-Overall Length (mm)	H-Height (mm)	Max height (mm)
DD-M-10020	100	10	50	50	100	100	100	100	0.05	110	74	200	214
DD-M-6025	150	15	60	60	150	150	150	150	0.05	160	76	200	214
DD-M-8030	200	20	80	80	200	200	200	200	0.1	160	76	200	214
DD-M-4015	100	40	30	30	100	100	100	100	0.05	160	76	200	214