



**ERMAKSAN**

METAL FABRICATING MACHINERY

*innovative technologies.*

# ECO-BEND

CNC Hydraulic Press Brake.





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[www.ermaksan.com.tr](http://www.ermaksan.com.tr)

## ***Ermaksan, after half a century, is moving confidently into the future***

*Ermaksan is proudly leaving 48 years of bright history behind and becoming, with its R & D and technological investments, one of the World leaders in its field with an innovative perspective for the 21<sup>st</sup> Century.*

*Ermaksan is a pioneer in the industry with strong R & D, an 80,000m<sup>2</sup> modern production facility, a highly qualified team of 700 staff, manufacturing high quality, high-tech machinery for the sheet metal processing sector.*

*Our factory is equipped with the latest technology and precision CNC machines, under the supervision of expert engineers, it is able to manufacture 3,000 units of sheet metal processing machines annually. Ermaksan are one of the Worlds' leading companies in the industry and Ermaksan machines are represented by exclusive dealers with strong technical support in 70 countries.*

*Ermaksan manufactures and designs high technology, value added, environmentally friendly and energy efficient machines by continually following new trends and customer expectations, using resources efficiently and effectively moving forward confidently towards sustainable growth.*

High Technology  
CNC Machines  
manufactured by  
Ermaksan;

- New Generation Fiber Laser
- CO<sub>2</sub> Laser
- Press Brake
- Servo Motorized Hybrid Press Brake
- Plasma Cutting Machine
- Punch Press
- Shear Cutting
- Iron Worker



# **ECO-BEND SERIES**

## *CNC Hydraulic Press Brake*

CNC Hydraulic Eco-Bend offers wide variety of options on top of its most preferred standard features. Eco-Bend Press Brake is user friendly and also offers its owners cost friendly effective solutions.

CYBELEC DNC600S controller comes standard with all Eco-Bend Press Brakes where 2D screen and high number of programming capacity are two major features most users enjoy.

# Your economical solution



Fiessler Akas LCIM finger protection.

**Rigid structure.**  
Dynamic and solid body machined with maximum sensitivity.

### **Your economical solution;**

Designed and manufactured based on your needs.

# Under your control

## General Features

### Ease of Use

- High resolution 9,4" 2D graphic display.
- Easy set up and use that meets operator's needs.
- Rapid data input with the ergonomic keyboard with large keys.
- 2D graphic representation of the part.

### User Friendly

- Programming all the parts in a single page.
- Easy installation and training.
- Contextual help and warning pop-ups.
- 99 repeatable bending.
- Library of 50 upper and lower tools.
- Accurate ram positioning by closed loop control of speed, pressure and parallelism.
- Back up facility of the programs, tool library and machine parameters with the standard Cybelec backup software.
- Communication with the machine by full-blown graphical programming at the office environment with the standard PC 1200 2D software (offline software).

### First Part, Good Part

- Easy adjustment with precision by simple access to the machine parameters.
- Consecutive program operating feature for high numbers of bend sequence.
- Inputting the angle and bend corrections directly on the controller.

### Powerful

- All basic functions.
- CE safety management.
- Easy communication.
- More than 20 language options.
- Robust and ergonomic design.



 **CYBELEC**  
DNC600S

**It is much more than just bending;**

Eco-Bend has been designed and produced by ERMAKSAN's experienced engineers and reflects innovative technologies.



**Manual crowning system.**  
Helps you to get desired bending angle all along the work piece.

**Sliding front support arms.**  
Scaled in metric, height adjustable front support arms.

**Foot pedal.**  
Double foot pedal allows you to bend your work automatically.

**SICK M 2000 rear light guard.**  
CE standards safety protections help you work in safer conditions.

Single axis back gauge (X)

- **Low initial investment.**
- **High efficiency.**
- **Compact design.**
- **2D screen  
CYBELEC DNC600S**

**Maximum precision with economical effectiveness;**

ERMAKSAN's world wide recognized machines designed by its experienced engineers, manufactured with highy technological standarts and always offers its customers wide variety of products.

# General Features

- Machined with high accuracy, dynamic and static stiffness provided.
- Hydraulic synchronized valve technology with its repeatable bending accuracy helps you get same bending quality on different side of work piece.
- Upper beam positioning is made by linear scales with 500 times in a second and with 0,0025 mm precision rate.
- Automatic calibration feature helps axis reference itself at the beggining.
- Single axis back gauge (X=500) system moves fast on a ballscrew shaft.
- Switched side doors for your protection.
- Cromed and honed hydrolic cylinders keep its precision even in high tonnages.
- Bottom tool holding unit allows you to use partial bottom tools.
- HOERBIGER hydrolic system.
- Perfect bending results are achieved repeatedly by synchronized valf technology on cylinders.
- SIEMENS electric systems.
- 4V Bottom die allows you to make variety of bendings on different thick-nesses.
- Easy to use and movable control unit allows operator to choose his working position.



**CYBELEC DNC600S.**  
9,4" high resolution 2D graphical screen comes standard with Eco-Bend.

Front support arms

**Promecam quick telese clamping system.**  
Easily can be operated by hand.



Hydraulic Group



HEIDENHAIN and GIVI MISURE Linear Encorders

# Equipments

# Equipments



Fiessler Akas LCIIIM 2000 Protection System (O)



**Laser Safe (O)**  
Laser safe is produced specifically for press brakes that is the leader among safety systems. Laser safe keeps the operator's safety at the top level.



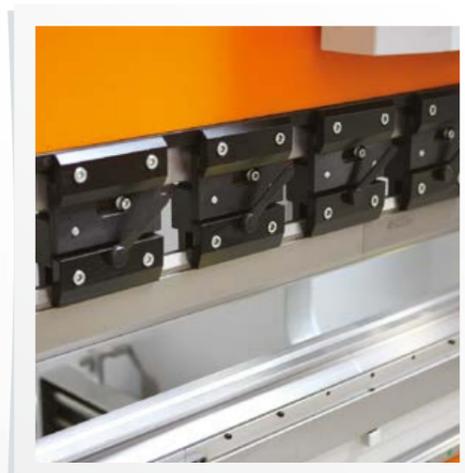
**Multi-V Bottom Tool (O)**  
Multi-V or U type adjustable tools.



**Manual Crowning System (O)**  
Manual crowning system that enables the part to be at even bending angle at any given point.



DSP Laser Protection (O)



**Promecam Top Tool Clamping System (S)**  
Top tool clamping system which provides quick tool change.



**CNC Motorised Crowning System (O)**  
CNC crowning system that communicates with the CNC controller, performs crowning automatically and enables the part to be at even bending angle at any given point.



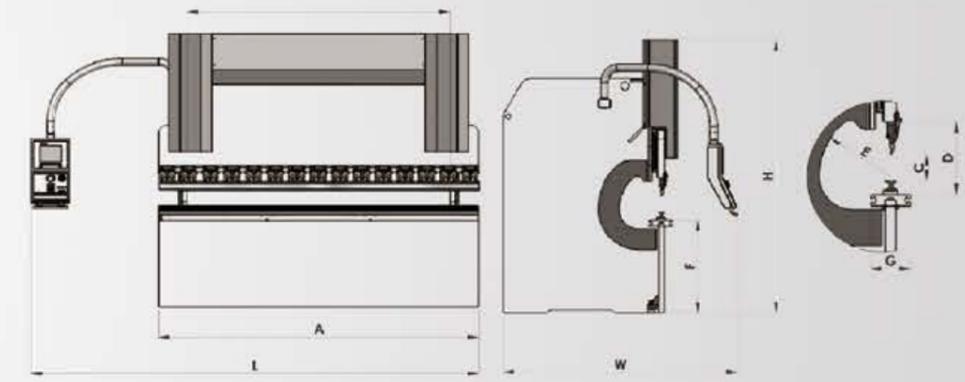
**Backgauge Fingers (O)**  
Specifically designed folding backgauge fingers.



SICK Light Barrier (O)



Sliding Front Support Arms (O)



## Technical Features

TYPE	BENDING LENGTH	BENDING POWER	DISTANCE BETWEEN COLUMNS	Y RAPID SPEED	Y WORKING SPEED	Y RETURN SPEED	CROWNING	TRAVEL IN X AXIS	SPEED OF X AXIS	BACKGAUGE FINGER BLOCKS	NUMBER OF SHEET SUPPORT ARMS	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGHT	HEIGHT	WIDTH	WEIGHT
	A		B						Standard AC motor					C	D	E	F	G	L	H	W	
	mm	Ton	mm	mm/sec	mm/sec	mm/sec		mm	mm/sec	ADET	ADET	lt.	kW	mm	mm	mm	mm	mm	mm	mm	mm	kg.
ECO BEND 2600 - 80	2600	80	1600	90	7,5	60	-	500	230	2	2	150	5,5	160	380	250	800	90	3750	2300	1950	4557
ECO BEND 2600 - 120	2600	120	1600	90	7,5	65	-	500	230	2	2	150	7,5	160	385	250	800	90	3750	2325	1900	5229
ECO BEND 3100 - 80	3100	80	2050	90	7,5	60	-	500	230	2	2	150	5,5	160	380	250	800	90	4250	2300	1950	4893
ECO BEND 3100 - 120	3100	120	2050	90	7,5	65	-	500	230	2	2	150	7,5	160	385	250	800	90	4250	2325	1900	5550
ECO BEND 3100 - 160	3100	160	2050	90	6,1	60	-	500	230	2	2	200	7,5	160	395	250	800	90	4250	2500	1900	6500
ECO BEND 3100 - 200	3100	200	2050	100	7	75	-	500	230	2	2	200	11	180	415	250	800	200	4450	2650	2050	8050
ECO BEND 3600 - 120	3600	160	2600	90	7,5	65	-	500	230	2	2	150	7,5	160	385	250	800	90	4750	2325	1900	6536
ECO BEND 3600 - 160	3600	160	2600	90	6,1	60	-	500	230	2	2	200	7,5	160	395	250	800	90	4750	2500	1900	7171
ECO BEND 3600 - 200	3600	200	2600	100	7	75	-	500	230	2	2	200	11	180	415	250	800	200	4950	2650	2050	8755
ECO BEND 4100 - 120	4100	120	3100	90	7,5	65	-	500	230	2	2	150	7,5	160	385	250	800	90	5050	2325	1900	7425
ECO BEND 4100 - 160	4100	160	3100	90	6,1	60	-	500	230	2	2	200	7,5	160	395	250	800	90	5050	2500	1900	8030
ECO BEND 4100 - 200	4100	200	3100	100	7	75	-	500	230	2	2	200	11	180	415	250	800	200	5150	2650	2050	9816



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