ERMAK

SHEET METAL WORKING MACHINERY

Since 1965

HEAVY DUTY SPECIAL DESIGN PRESS BRAKE SERIES

B I G M A C H I N E S S E R I E S






CNCTAP14400
Single, double or quartet operation availability

Ermaksan's reliability, high quality products and advanced manufacturing techniques offers flexible and ideal solutions to the steadily changing world market, everyday developing technology and customers' special demands.

Special Ermaksan press brakes fulfill the demands of the heavy-duty machine industry, transportation, windmills, power plants, defense industries and sectors which are manufacturing lightening poles with Ermaksan's wide product range.

GENERAL SPECIFICATIONS

Tandem press brakes consists of at least two machines which are able to bend sheet and plate materials that are up to 32 meters on a single operation. These press brakes also have a feature of working together as well as working alone. Each machine is equipped with separate hydraulic, electrical and electronic equipments. All the equipments used as standard and optional accessories are chosen particularly from the latest technology using companies whose products are accepted worldwide. Acquiring the high performance with high efficiency by the user is our basic principle.

- User friendly and reliable working environment providing complex Hydraulic system which you can use free of problems for years.
- Bending tools at various dimensions and special types.
- High precision bending opportunity with adjustable tonnage, back gauge and stroke adjustment according to tooling and sheet metal specs.

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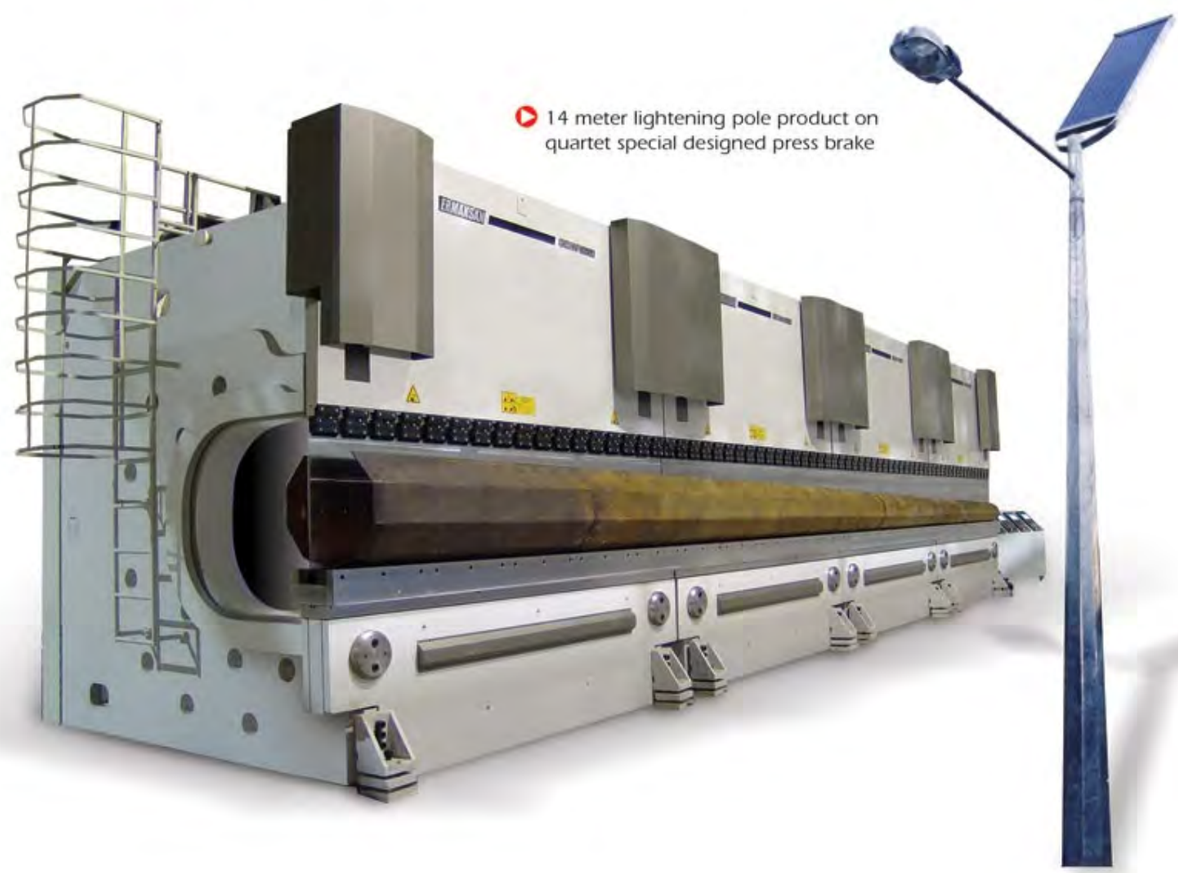
Light Curtain safety system designed to be able to work on both single and tandem operations

Special press brakes which are schemed and designed by Ermaksan are manufactured at different heights and tonnages according to customers demands.

14 meter lightening pole product on quartet special designed press brake



SAFETY EQUIPMENTS

Sick front light guard

Rear light guard

Sick Laser front light guard

Lazer Safe front light guard

Akas Laser front light guard

- Opportunity to adjust the working distance and intended stroke dimension

- Special clamping equipments and tooling which are manufactured upon the customers request

B I G M A C H I N E S S E R I E S

CNC CONTROLLERS (STANDARD)

Standard

CYBELEC MODEVA 10S 2D Controller General Specifications

- 2D DOS-based operating system,
- Wide ergonomic keyboard and integrated track sensor,
- 6 context-sensitive function keys.
- 10" TFT high resolution color screen
- Working memory flash 32 MB
- Integrated 3,5" floppy disc (optional CD-ROM, LS120 or others)
- Printer output and 2 RS232 port,
- Ethernet RJ45 and 2 USB port,
- VGA screen output,
- Conversion inch/mm, ton/tons,
- Measurement of speed, stopping time and leakage of the beam.
- Management of CE safety cycles.
- Interactive display of safety utilities and customized messages.
- 16 axes could be configured.

Standard

ER80 2D + Cad interface

ERMAK bending solutions are displayed graphically in 2D and indicate possible collisions with the tools or the machine frame. The system also shows the position of the sheet within the tools. Windows XP Embedded numerical control, Its 10-inch TFT colour screen, its simplified keyboard with large keys, and the 2D graphic software make the use of this control very efficient and comfortable.

Standart offline 3D software and DXF or IGES conversion importing from CAD system ,simulate and display the feasibility of the product in 3D or 2D. Display, product , tools and detect collisions. Programing punch or Die , Bend functions key and It is possible to import a product created DXF or IGES file for use on a CAD system.

Standard

ER 90 3D

CNC Bending Simulations Work Center

Graphic Multi-axes numeric control that Windows™ style) and advanced 3D features. Another important feature of ERMAK is the environment dedicated to the PRODUCTION MANAGING, Its simple and friendly GUI (Graphical User Interface) is furthermore increased in value by an HIGH RESOLUTION LCD, with Touch-Screen 17".

Simulations of Machine Body, Punch, Dies, Punch and Die holders Barries, Doors, Floor, Backgauge, Sheet Pieces, Real Time Bending Screen. ERMAK is a real onboard machine CAM. In fact graphic CREATION of tool and 2D/3D parts, IMPORTATION of 3D parts from EBS CADCAM, SIMULATION and 2D/3D reproduction, in real time, of all of the bend phases, are only some of the available basic performances.

Standard

DELEM 66W 2D General Specifications

- 2D Windows® operating system,
- Stable, multitasking environment,
- 2D simulation of application before bending process,
- Microsoft Networking standard on board,
- Structured program storage (subdirectories),
- 10,4" TFT High Resolution Colour display (640 x 480 pixels, 16-bit colour),
- 200MHz microprocessor,
- 32 Mb memory capacity,
- 4Mb free product and tools memory,
- 20 digits alpha-numeric drawing number,
- 7 digits program number,
- Program repeat max. 9999,
- Step number, 25 max. (sequences),
- Step repeat, 99 max.,
- Millimeters/inches-USTON/KN,
- External connection of USB keyboard, mouse,
- Error messaging system,
- PLC functionality (sequencer),
- Machine time + stroke counter,
- Tandem operation,
- Delem Modular compatible,

CNC CONTROLLERS (OPTIONAL)

Optional

CYBELEC MODEVA 12S 3D Controller General Specifications

- 3D Windows (Press CAD) based operating system,
- Wide ergonomic keyboard and integrated track sensor,
- 6 context-sensitive function keys.
- 12" TFT high resolution color screen
- Large hard disc (min 2 GB)
- Integrated 3,5" floppy disc (optional CD-ROM, LS120 or others)
- Printer output and 2 RS232 port,
- Ethernet RJ45 and 2 USB port,
- VGA screen output,
- Conversion inch/mm, ton/tons,
- Measurement of speed, stopping time and leakage of the beam.
- Management of CE safety cycles.
- Interactive display of safety utilities and customized messages.
- 16 axes could be configured and multi-lingual selection.

Optional

CYBELEC ModEva 15S 3D

- 15" TFT screen (1024x768 resolution)
- Optional Touch screen and Remote control
- ModEva15 3D Windows 15" screen,
- Wide ergonomic keyboard and quick cursor
- Integrated 3,5" floppy disc, extra socket for keyboard and mouse
- IP 54 class protection
- 400mHz CPU, 64 MB RAM, hard disc (min. 2GB)
- Ethernet RJ45, USB 1.1 Port PCMCIA, Printer port, VGA output
- RS 232 and RS 422 port
- Interactive display of safety utilities and customized messages.
- CE security system management
- 16 axes could be configured and multi-lingual selection.
- Standard PC1200, CYCAD and LUCIA programs

Optional

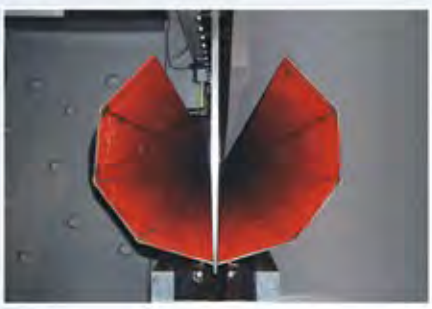
DELEM 69W 3D General Specifications

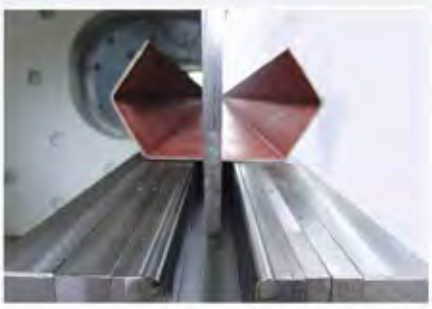
- Real Time 3D Windows® operating system,
- Stable, multitasking environment,
- 3D simulation of application before bending process,
- Microsoft Networking standard on board,
- Structured program storage (subdirectories),
- 10,4" TFT High Resolution Colour display (640 x 480 pixels, 16-bit colour),
- 300MHz microprocessor,
- 32 Mb memory capacity,
- 8Mb free product and tools memory,
- 7 digits program number,
- 20 digits alpha-numeric drawing number,
- Program repeat max. 9999,
- Step number, 25 max. (sequences),
- Step repeat, 99 max.,
- Millimeters / inches - USTON/KN ,
- External connection of USB keyboard, mouse,
- Error messaging system,
- PLC functionality (sequencer),
- Machine time + stroke counter,
- Tandem operation,
- Delem Modular compatible,

High precision manufacturing up to 28 meter on a single operation at CNC processing centers is feasible.

High precision measurement up to 1 micron is feasible with three dimensional measurement device

SPECIAL BOTTOM AND TOP TOOL SYSTEMS

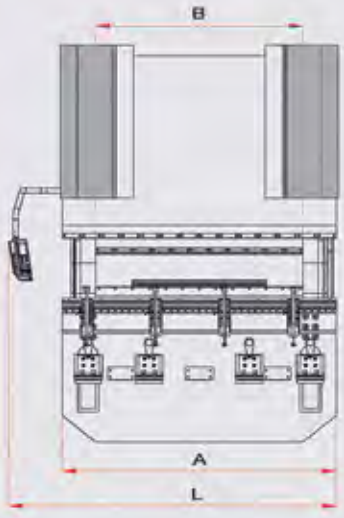


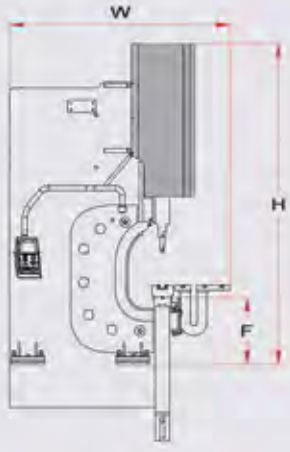


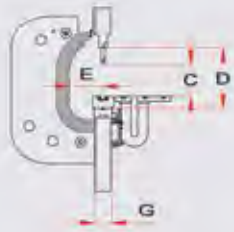
Polygon Pole Manufacturing

Conical Pole manufacturing with special bottom and top tooling

TECHNICAL DIMENSIONS

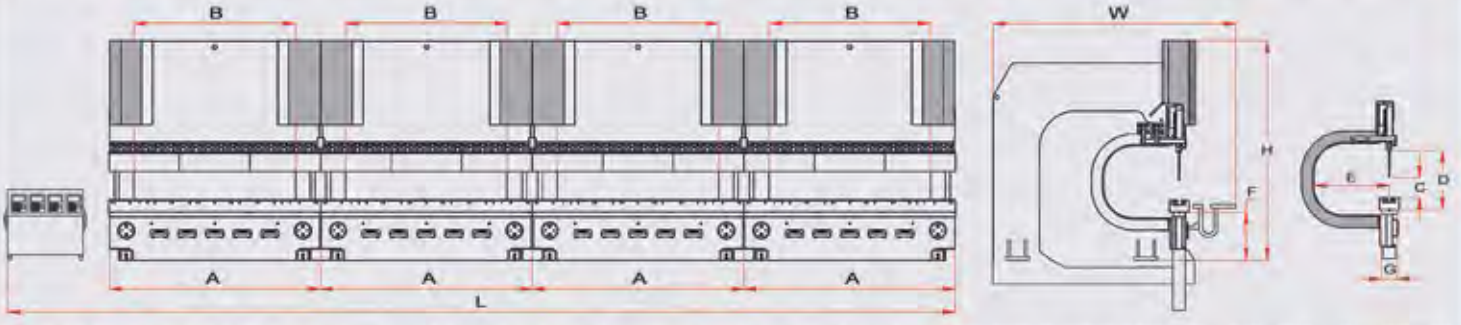






All specs are subject to change without notice

TYPES	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	TRAVEL IN R AXIS	SPEED OF R AXIS	BACKGAUGE FINGER BLOCKS	NUMBER OF SHEET SUPPORT ARMS	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	HEIGHT	WIDTH	WEIGHT	OPTIONS		
	A	Ton	B													C	D	I	F	G	L	H	W	kg	SPEED OF TRAVEL X1,X2 AXIS	SPEED OF TRAVEL R1,R2 AXIS	SPEED OF TRAVEL Z1,Z2 AXIS
	mm		mm	mm/sec	mm/sec	mm/sec	STANDARD	mm	mm/sec	mm	mm/sec	Amount	Amount	Lt	kw	mm	mm	mm	mm	mm	mm	mm	mm	kg	mm/sec	mm/sec	mm/sec
CNC AP 4100 - 1250	4100	1250	3100	75	6	55	Motorized	1000	500	250	350	2	2	1200	55	510	1000	610	800	400	5900	4600	3300	88000	500	350	1000
CNC AP 4100 - 1500	4100	1500	3100	75	6	57	Motorized	1000	500	250	350	2	2	1500	75	610	1100	610	800	800	5900	5000	3700	95000	500	350	1000
CNC AP 6100 - 1000	6100	1000	5100	75	6	50	Motorized	1000	500	250	350	4	4	1000	45	510	900	610	800	350	7900	4350	3250	71000	500	350	1000
CNC AP 6100 - 1250	6100	1250	5100	75	6	55	Motorized	1000	500	250	350	4	4	1200	55	510	1000	610	800	400	7900	4800	3400	102000	500	350	1000
CNC AP 6100 - 1500	6100	1500	5100	75	6	57	Motorized	1000	500	250	350	4	4	1500	75	610	1100	610	800	500	7900	5000	3700	115000	500	350	1000
CNC AP 6100 - 2000	6100	2000	4500	70	5	67	Motorized	1000	500	250	350	4	4	2000	2x45	800	1300	610	750	500	9500	5300	4700	150000	500	350	1000
CNC AP 7100 - 1000	7100	1000	6100	75	6	50	Motorized	1000	500	250	350	4	4	1000	45	510	900	610	800	350	8500	4300	3050	84000	500	350	1000
CNC AP 7100 - 1250	7100	1250	6100	75	6	55	Motorized	1000	500	250	350	4	4	1200	55	510	1000	610	800	400	8500	5000	3400	110000	500	350	1000
CNC AP 7100 - 1500	7100	1500	6100	75	6	57	Motorized	1000	500	250	350	4	4	1500	75	610	1100	610	800	450	8500	5100	3700	140000	500	350	1000
CNC AP 7100 - 2000	7100	2000	5500	70	5	67	Motorized	1000	500	250	350	4	4	2000	2x45	800	1300	610	750	500	8500	5300	4700	175000	500	350	1000
CNC AP 8100 - 1000	8100	1000	7100	75	6	50	Motorized	1000	500	250	350	4	4	1000	45	510	900	610	800	350	9650	4500	3250	104000	500	350	1000
CNC AP 8100 - 1250	8100	1250	7100	75	6	55	Motorized	1000	500	250	350	4	4	1200	55	510	1000	610	800	400	9650	5200	3400	127000	500	350	1000
CNC AP 8100 - 1500	8100	1500	6500	75	6	57	Motorized	1000	500	250	350	4	4	1500	75	610	1100	610	800	450	9650	5200	3700	148000	500	350	1000
CNC AP 8100 - 2000	8100	2000	6100	70	5	67	Motorized	1000	500	250	350	4	4	2000	2x45	800	1300	610	750	500	9500	5600	4350	205000	500	350	1000
CNC AP 8100 - 2500	8100	2500	6100	70	5	72	Motorized	1000	500	250	350	4	4	2500	2x45	800	1300	610	750	550	9600	5700	4700	260000	500	350	1000
CNC AP 8100 - 3000	8100	3000	6100	70	5	74	Motorized	1000	500	250	350	4	4	3000	2x75	800	1300	610	750	600	9700	5900	4700	310000	500	350	1000



CNC T AP 2x 7100 - 1500	7100	3000	2x6100	75	6	57	Motorized	1000	500	250	350	4	4	1500	2x75	610	1100	610	800	450	2x8500	5100	3700	2x140000	500	350	1000
CNC T AP 2x 8100 - 1000	16200	2000	2x7100	75	6	50	2xMotorized	1000	500	250	350	2x4	2x4	2x1000	2x45	510	900	610	800	350	2x9650	4500	3250	2x104000	500	350	1000
CNC T AP 2x 8100 - 1250	16200	2500	2x7100	75	6	55	2xMotorized	1000	500	250	350	2x4	2x4	2x1200	2x55	510	1000	610	800	400	2x9650	5200	3400	2x127000	500	350	1000
CNC T AP 2x 8100 - 1500	16200	3000	2x6500	75	6	57	2xMotorized	1000	500	250	350	2x4	2x4	2x1500	2x75	610	1100	610	800	450	2x9650	5200	3700	2x148000	500	350	1000
CNC T AP 2x 8100 - 2000	16200	4000	2x6100	70	5	67	2xMotorized	1000	500	250	350	2x4	2x4	2x2000	2x(2x45)	800	1300	610	750	500	2x9500	5600	4350	2x205000	500	350	1000
CNC T AP 2x 8100 - 2500	16200	5000	2x6100	70	5	72	2xMotorized	1000	500	250	350	2x4	2x4	2x2500	2x(2x45)	800	1300	610	750	550	2x9600	5700	4700	2x260000	500	350	1000
CNC T AP 3x 8100 - 1500	24300	4500	3x6500	70	6	57	3xMotorized	1000	500	250	350	3x4	3x4	3x1000	3x75	610	1100	610	800	450	3x9650	5200	3700	3x148000	500	350	1000
CNC T AP 3x 8100 - 2000	24300	6000	3x6100	70	6	67	3xMotorized	1000	500	250	350	3x4	3x4	3x2000	3x90	800	1300	610	750	500	3x9500	5600	4350	3x205000	500	350	1000
CNC T AP 3x 8100 - 3000	24300	9000	3x6100	70	5	74	3xMotorized	1000	500	250	350	3x4	3x4	3x3000	3x(2x75)	800	1300	610	750	600	3x9700	5900	4700	3x310000	500	350	1000
CNC T AP 4x 3525 - 400	14100	1600	4x2890	100	8	120	Hydr. Comp.	2500	500	-	-	4x4	4x4	4x400	4x37	300	1100	1500	800	200	4x9250	3700	3800	4x98600	500	350	1000
CNC T AP 4x 6100 - 1500	24400	6000	4x5100	75	6	57	4xMotorized	1000	500	250	350	4x4	4x4	4x1500	4x75	610	1100	610	800	500	4x7900	5000	3700	4x115000	500	350	1000
CNC T AP 4x 6100 - 2000	24800	8000	4x4500	70	5	67	4xMotorized	1000	500	250	350	4x4	4x4	4x2000	4x90	800	1300	610	750	500	4x9500	5300	4700	4x150000	500	350	1000
CNC T AP 4x 8100 - 2000	32400	8000	4x6100	70	6	67	4xMotorized	1000	500	250	350	4x4	4x4	4x2000	4x90	800	1300	610	750	500	4x9500	5600	4350	4x205000	500	350	1000
CNC T AP 4x 8100 - 3000	32400	12000	4x6100	70	6	74	4xMotorized	1000	500	250	350	4x4	4x4	4x3000	4x(2x75)	800	1300	610	750	600	4x9700	5900	4700	4x310000	500	350	1000
CNC T AP 2x 7100 - 1500	7100	3000	2x6100	75	6	57	Motorized	1000	500	250	350	4	4	1500	2x75	610	1100	610	800	450	2x8500	5100	3700	2x140000	500	350	1000
CNC T AP 2x 8100 - 1000	16200	2000	2x7100	75	6	50	2xMotorized	1000	500	250	350	2x4	2x4	2x1000	2x45	510	900	610	800	350	2x9650	4500	3250	2x104000	500	350	1000

→ → *Consult to our company for special dimension and capacity applied machines.* ← ←

ERMAKSAN MACHINERY

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