Innovative Technologies.













ERMAKSAN is well known for productive and result oriented research & development activities as well as affordable high-tech products in fabricating industry. With 47 years of manufacturing experience ERMAKSAN continuously invests on latest technology and its human resources.

ERMAKSAN manufactures 3000 machines annually with 700 qualified staff in a fully modernized 80.000 sqm factory equipped with state-of art machinery. ERMAKSAN exports 80% of its production through agents under the brand ERMAK from Canada to New Zealand, more than 70 countries in the world and provides full technical support since 1965.

By purchasing ERMAK machines, you will be investing on your future. With this decision we promise you to deliver the machine which will suit your needs and provide the best purchasing experience by means of price, delivery, quality, training and after-sales technical support.











POWEKBEND PRO 3 Axes (R Manual) CNC Press Brake

Power-Bend Series machines were redesigned based on users preferences and it became unique machine with its electronic and mechanical features.

Power-Bend Pro Series are among the highest rated machines which will help you increase your productivity and keep cost at minimum level with its user friendly CNC controller and low cost hydraulic maintenance.

New Power-Bend Pro is exactly what you need for your production needs where complicated, sensitive, single or multiple bendings on high speed are needed.



allow you to have more production capacity and eliminate waste time on production.

Scaled in metric, height adjustable front support arms.

Stronger, faster and deeper bendings



As fast as your will power

- **↓** High Free Falling Speed
- → High Bending Speed
- **↑** High Returning Speed
- High quality and repetitive bending is obtained by using syncronized cylinders and valves.
- Automatic axis referencing and calibrating at very first time when machine is turned on.
- All ERMAKSAN machines are designed by using SOLID WORKS 3D programming and made by enhanced ST44-1 quality steel with the latest technology.
- Rigid upper beam runs on 8-point bearings with bending precision of 0.01 mm.
- World wide recognized long lasting, stiffened, precise top and bottom tools.
- Silent high pressure pump.

Back gauge fingers.Special design foldable back gauge fingers.

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

2 axis (X, R) 4 axis (X, R, Z₁, Z₂) 6 axis $(X, R, Z_1, Z_2, X_1, X_2)$ Servo motorized back gauge. (option) Multifunctional and sensitive back gauges help you bend complex parts with ease of mind, specially designed and produced by ERMAKSAN. CNC and Servo motors run on rail and with 0.05 mm sensitive high precision ball screws which help you to be competitive. Back gauge system. Power-Bend Pro offers you motorized X axis back gauge and manuel R axis as standard. **4** axis (**X**, **R**, **Z**₁, **Z**₂) servo motorized back gauge. Backgauge positioning with 0.05 mm accuracy.



General features

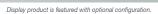
- Crome covered cylinders are machined with 0.001 mm precision and pistons are specially stiffened.
- Original clampings are user friendly and machined with high precision.
- Front support arms are slideable along machine lenght and easy to adjust.
- Compact and world wide recognized HOERBIEGER hydrolics are produced according to CE standards.
- Two photocells on sides for rear guard.
- Fast tool tightening.
- Optic linear scales are sensitive up to 0.001 mm.
- Easy to use controller is freely movable along the machine and convenient for all

- Syncronized working cylinders will give you the best bending result with its perfect repeatability ratio.
- 2 axis ultra strong back gauging system (X=800 and R), with 0.01 mm repeatability, moves along rails and ball screw, bending lenght controlled by CNC controller, foldable back gauge fingers for reverse bending applications.
- Multifunctional and high programable,
 2D CYBELEC DNC 600 CNC controller.
- SIEMENS electrical system.
- Automatic axis referencing when machine is turned on.
- Side guards are standartized according to CE standards.





HEIDENHEIN and GIVI MISURE lineer scales.



Your best bending solution

- Perfect configuration for sensitive bending and economic solution.
- → Precise result for long and deep bending.
- → Continuous sensitiviy with crowning system.
- → Long lasting rigit body is also suitable for heavy duty applications.
- → Installation and training provided, easy maintenance.

Your best bending solution;

You can bend longer and deeper parts at maximum repeatability with standard Power-Bend Pro machines. Motorized crowning system.

Motorized crowning system helps bending your parts in same angle along every point of piece by sending signals to controller.





Impressive bending solutions; Equipment alternatives can be upgraded on Power-Bend Pro Series upon request. Thus, increased productivity is achieved while bending. POWER-BEND PRO 6100 x 400 TN Rigit structure. Dynamic and solid body machined with maximum sensitivity. AP3 / AP4 front sheet support arms. CNC controlled support arms reduces your bending time significantly and is a great help for perfect bending.





Under your control

General features (Cybelec DNC61G, option)

User - friendly:

- Ergonomic design.
- Rapid data input with the ergonomic keyboard with large keys.
- Easy set up and use that meets operator's needs.
- Keyboard with big buttons.
- Programmed material types.
- Monochrome 130 x 75mm LCD Box Panel.

Improved features:

- Blade gap, cutting angle and cutting length adjusted based on material selection and thickness automatically.
- Different language selections.
- Highly protected micro processor.
- Data recording with internal SRAM memory.
- Updateable with flash memory (optionally with RS 232).
- EASYCUT page.
- Numerically programmable axis data.
- 16 input and output ports (24-32 options).
 mm/inch convertion

Better cuttings:

- Backgauge adjustment according to blade gap.
- Backgauge retraction feature.
- Sub-program and programming loop.
- Sequence repeat function.
- Auto cutting (Flying cut).







OPTIONAL CONTROLLER

ER70

General features

- High performance user friendly CNC controller is offered at affordable price.
- 2D graphical bending simulation.
- 2D graphical part drawing.
- 2D graphical manuel crash control.
- Automatic bending calculations for inner and outer parameters.
- Automatic X and R axis calculating for bending steps and part dimensions.
- Bending skip or bending change.
- Automatic calculations of bent parts.
- Automatic positioning for Y1 and Y2 upon sample part degree.
- Automatic strok or inside radius calculating.

- Screen dimensions: 10,4 TFT single colour.
- OS: WINDOWS.
- Memory: 64 MB.
- Memory for end users. Min 2 MB, approximately 1000 programs.
- Programming feature for up to 99 steps.
- Maximum 99 steps for single program.
- Y1, Y2, X, R, (Max 4 axis).
- Tooling and V DIE memory 30/60.
- USB back up available for lost info.
- Additional 2 USB ports for your keybord or mouse.
- Ehternet sample piece transfer.
- Offline 2D part programming.





OPTIONAL CONTROLLER

ER90

General features

- Windows-style operating system.
- 2D and 3D prograamming.
- 3-D drawing feature.
- 2D DXF import feature.
- Automatic bending sequence search and collision control.
- 17" LCD touch-screen that facilitates sights of machine body, mould, back gauge, side protection guards, and components.
- Changeable color display unit (buttons, machine color, background color, color patterns, the background).
- Multi-functional alpha numeric keyboard
- External attachment possibility of keyboard and mouse.
- Angle measurement and control through IMG 100 system.
- Enabling tandem type operational application.

- Dynamic crowning.
- Remote access.
- Application of digital protractor.
- Motorized front-support system.
- Configuration that can be made up to 16 axes.
- Error message display.
- Inch / mm, t / ustons unit alterations.

ERMAK CAD/CAM Bending Simulation Software:

- For ERMAKSAN press brakes CAD / CAM sheet metal bending simulation.
 ER90 PC (Windows98SE / ME / NT4 / 2000 / XP).
- Language options: Turkish, Czech,
 Dutch, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Finnish, Chinese.



Safety Systems



Fiessler Akas LCIIM Protection System (O)



Laser Safe (O)

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



SICK M 2000 Rear Light Guard (S)

CE standards safety protections help you work in safer conditions.



DSP Laser Protection System (O)



SICK Light Barrier (S)



IMG 100 laser Safe and Angle Measurement System (0)

Laser Finger Protection helps you save time with easy installation.
- Laser Safe can be used with DNC 600S and ER-70.

- Angle Measurement can be used with ER-90.

Top Tool Clamping Systems



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



Pneumatic Tool Clamping System (O)
Pneumatic tool clamping systems press and center the tools automatically with the help of the pressurized air. These are perfect solutions to shorten the setup timing and for automated press brakes.



Hydraulic Tool Clamping System (O)
Hydraulic tool clamping systems clamp, correct and center the tools, with the help of the hydraulic automatically without need for air. These are perfect solutions to shorten the setup timing and for automated press brakes.



Wila Tool Clamping System (O)

Bottom Tool Clamping and Crowning Systems



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



Hydraulic Bottom Tool Clamping System (O)



CNC Motorised Crowning System (*)

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.

* Up to 400TN optional.

From 400 TN and above standard.



Wila Bottom Tool Clamping System (O)



Wila Hydraulic Tool Clamping Systems (O)



Manual Crowning System (*)

Manual crowning system that enables the part to be at even bending angle at any given point.

* Up to 260 TN optional. From 260 TN and above standard.

Other Equipments



Throat (O) Special throat depths are offered up to 1500 mm for large bendings.



2 Axes (X,R)

4 Axes (X, R, Z1, Z2) 6 Axes (X, R, Z1, Z2, X1, X2) Rapid and Precise Back Support System with Servo Motor. (O)

They enable you to increase the production performance and quality.



Sliding Front Support Arms (S)



Backgauge Fingers (S) Specifically designed folding backgauge fingers.



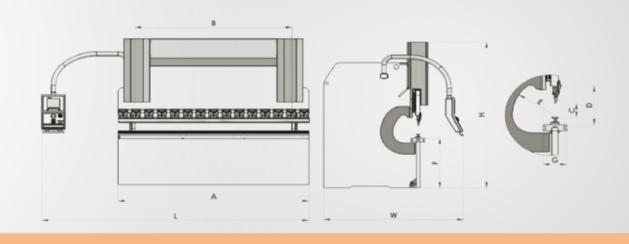
Tool Storing Cabinet (O)



Technical Features

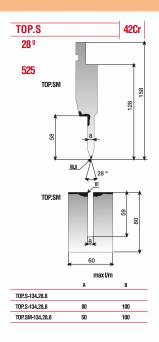
TYPE	BENDING LENGTH	BENDING POWER	DISTANCE BETWEEN COLUMNS	Y RAPID SPEED	Y WORKING SPEED *	Y RETURN SPEED	CROWNING	TRAVEL IN X AXIS	SPEED OF X AXIS	BACKGAUGE FINGER BLOCKS
	А		В							
	mm	Ton	mm	mm/s	mm/s	mm/s		mm	mm/s	Amount
PB-PRO 1270 - 40	1270	40	1050	140	17	170	-	800	230	2
PB-PRO1270 - 60	1270	60	1000	200	14	165	-	800	230	2
PB-PRO 2100 - 40	2100	40	1700	140	17	170	-	800	230	2
PB-PRO 2100 - 60	2100	60	1700	200	14	165	-	800	230	2
PB-PRO 2600 - 60	2600	60	2200	200	14	165	-	800	230	2
PB-PRO 2600 - 100	2600	100	2200	200	9.5	155	_	800	230	2
PB-PRO 2600 - 135	2600	135	2200	160	10	120	-	800	230	2
PB-PRO 3100 - 100	3100	100	2600	200	9.5	155	-	800	230	2
PB-PRO 3100 - 135	3100	135	2600	200	10	120	-	800	230	2
PB-PRO 3100 - 175	3100	175	2600	180	10	135	-	800	230	2
PB-PRO 3100 - 220	3100	220	2600	180	11	160	-	800	230	2
PB-PRO 3100 - 260	3100	260	2600	140	11	135	Manual	800	230	2
PB-PRO 3100 - 320	3100	320	2600	140	10.5	150	Manual	800	230	2
PB-PRO 3100 - 400	3100	400	2550	110	8.4	130	Motorized	1000	230	2
PB-PRO 3760 - 175	3760	175	3250	180	10	135	-	800	230	2
PB-PRO 3760 - 220	3760	220	3250	180	11	160	-	800	230	2
PB-PRO 3760 - 320	3760	320	3250	140	10.5	150	Manual	800	230	2
PB-PRO 4100 - 135	4100	135	3600	200	10	120	-	800	230	2
PB-PRO 4100 - 175	4100	175	3600	180	10	135	-	800	230	2
PB-PRO 4100 - 220	4100	220	3600	180	11	160	-	800	230	2
PB-PRO 4100 - 260	4100	260	3600	140	11	135	Manual	800	230	2
PB-PRO 4100 - 320	4100	320	3600	140	10.5	150	Manual	800	230	2
PB-PRO 4100 - 400	4100	400	3550	110	8.4	130	Motorized	1000	230	2
PB-PRO 4270 - 135	4270	135	3780	200	10	120	-	800	230	2
PB-PRO 4270 - 220	4270	220	3780	180	11	160	-	800	230	2
PB-PRO 4270 - 400	4270	400	3780	110	8.4	130	Motorized	1000	230	2
PB-PRO 6100 - 220	6100	220	5100	130	11	125	-	800	230	4
PB-PRO 6100 - 320	6100	320	5100	80	10.5	75	Motorized	800	230	4
PB-PRO 6100 - 400	6100	400	5100	80	8.4	65	Motorized	1000	230	4

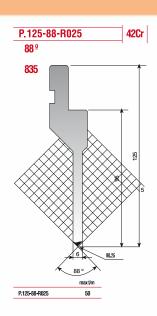
 $^{^{\}ast}$ Working speed should be max. 10 mm / sec. at CE certified machines according to the EN12622 norm.

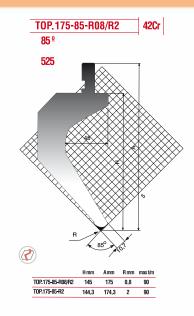


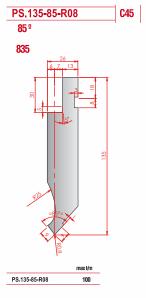
NUMBER OF SHEET SUPPORT (Sliding front arms)	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	HEIGHT	WIDTH	WEIGHT
			С	D	Е	F	G	L	Н	W	
Amount	lt.	kW	mm	mm	mm	mm	mm	mm	mm	mm	kg.
2	80	5.5	170	387	350	850	90	2150	2300	1650	3050
2	150	7.5	275	530	410	900	90	2250	2750	1960	4150
2	80	5.5	170	387	350	850	90	2900	2300	1650	3950
2	150	7.5	275	530	410	900	90	3250	2750	1960	5650
2	150	7.5	275	530	410	900	90	3750	2750	1960	6050
2	150	7.5	275	530	410	900	90	3750	2800	1950	6850
2	200	11	275	550	410	900	90	3750	2800	2050	8250
2	150	7.5	275	530	410	900	90	4250	2800	1950	7450
2	200	11	275	550	410	900	90	4250	2800	2050	8650
2	200	15	275	550	410	900	90	4250	2800	2150	9450
2	300	18.5	275	550	410	900	200	4550	2850	2250	11500
2	300	22	275	550	410	900	220	4550	2900	2350	15000
2	400	30	375	650	410	900	240	4550	3200	2450	16800
2	400	30	375	650	510	1000	240	4550	3470	2650	20840
2	200	15	275	550	410	900	90	4900	2800	2150	10950
2	300	18.5	275	550	410	900	160	5100	2900	2250	12600
2	400	30	375	650	410	900	220	5100	3150	2450	20000
2	200	11	275	550	410	900	90	5100	2800	2100	10650
2	200	15	275	550	410	900	90	5100	2850	2150	11950
2	300	18.5	275	550	410	900	160	5150	3000	2250	13800
2	300	22	275	550	410	900	200	5150	3000	2350	16700
2	400	30	375	650	410	900	220	5350	3150	2450	21750
2	400	30	375	650	510	1000	240	5450	3470	2650	26330
2	200	11	275	550	410	900	90	5280	2800	2150	10950
2	300	18.5	275	550	410	900	160	5320	3000	2250	14600
2	400	30	375	650	510	1000	240	5600	3470	2650	26550
4	300	18.5	275	550	410	1100	180	7500	3200	2350	25800
4	400	30	375	650	410	1100	180	7500	3350	2450	30900
4	400	30	375	650	510	1100	200	7650	3750	2650	39700

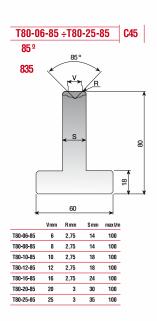
Special Top and Bottom Tools

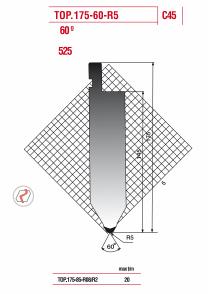


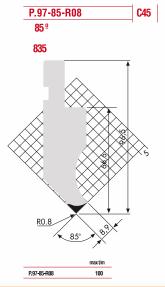


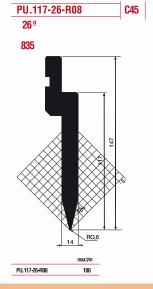


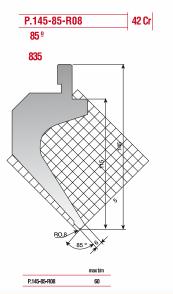


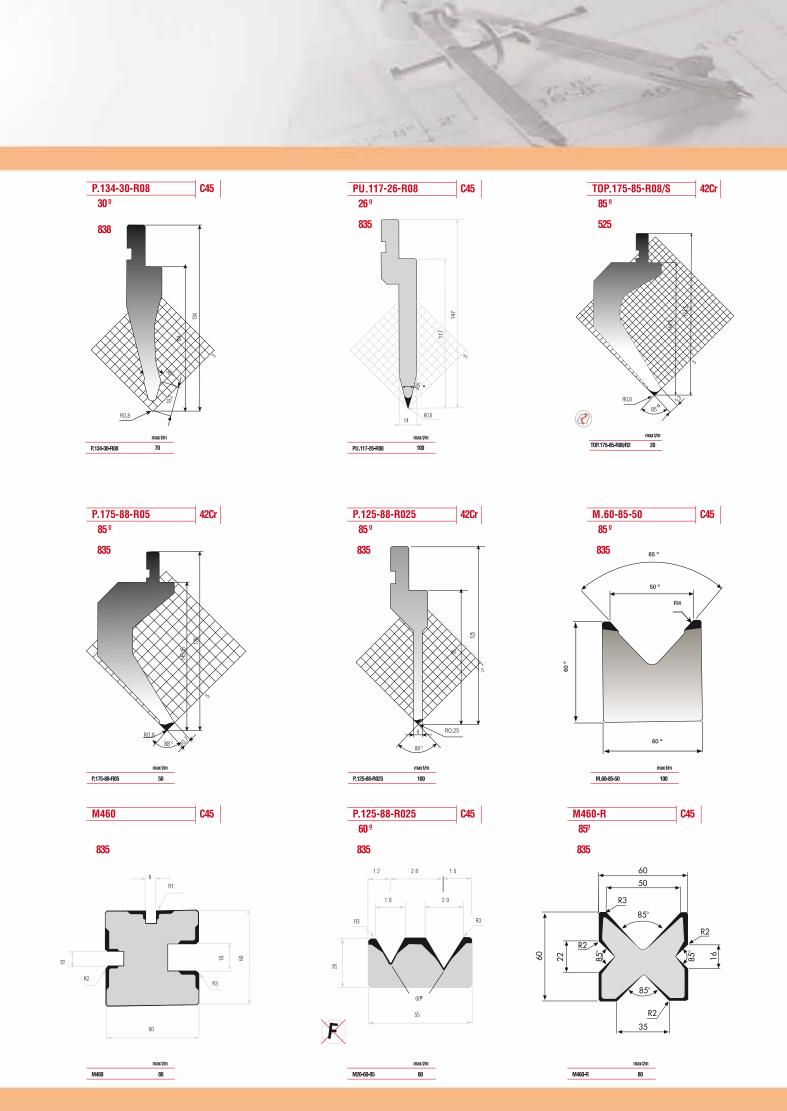




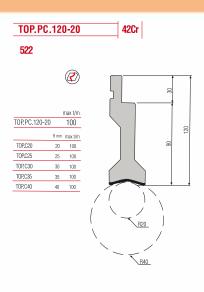


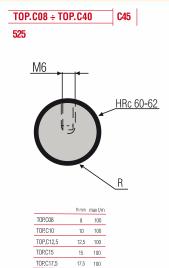




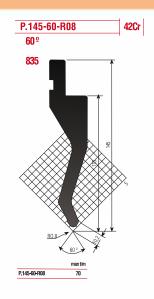


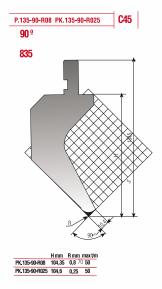
Special Top and Bottom Tools

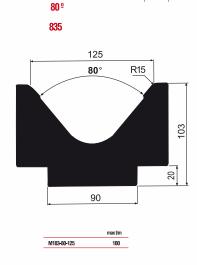




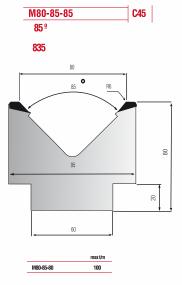
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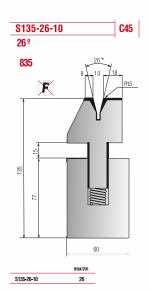


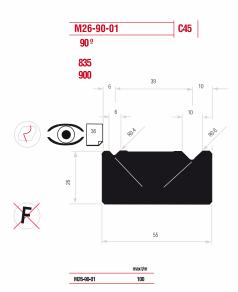


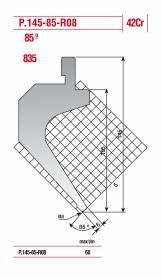


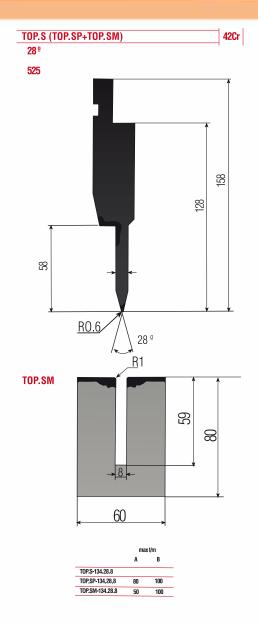
M103-80-125

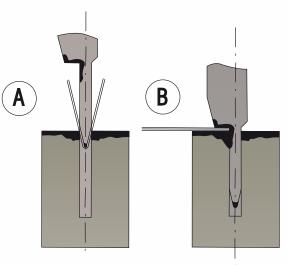


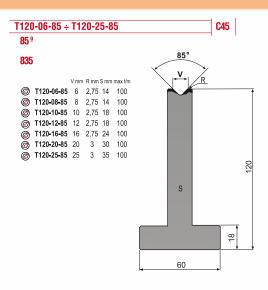


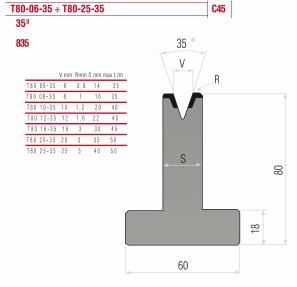


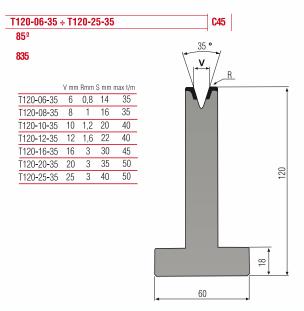














Innovative Technologies.

→ Products

→ LASER SERIES

- FIBERMAK Fiber Laser Cutting
- LASERMAK CO₂ Laser Cutting





→ PLASMA SERIES

- 3 AXES PLASMA Plasma Cutting
- 5 AXES PLASMA Plasma Cutting





→ PRESS BRAKE SERIES

- EVOLUTION Hybrid Press Brake
- SPEED-BEND Synchronized Hydraulic Press
- POWER-BEND PRO 3 Axes (R Manual) CNC Press 3 Axes CNC Press Brake



■ ECO-BEND





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→ SHEAR SERIES

- CNC HVR

 Variable Rake Hydraulic

 Guillotine Shear
- HGD Hydraulic Swing Beam Shear
- HGS-A Hydraulic Swing Beam Shear







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→ PUNCH PRESS SERIES

- ETP
 Cnc Turret Punch Pres
 - Punch Pres Combined Plasma Punch
 Press







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→ IRON WORKER

- EKN-6 Hydraulic Corner Notcher
- EKM Iron Worker





omarodinomini ong, processi

→ HEAVY DUTY

■ TANDEM Heavy Duty Press Brake

