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Innovative Technologies | www.ermaksan.com.tr | Press Brake Series



POWER-BEND PRO

3 Axes (R Manual) CNC Press Brake



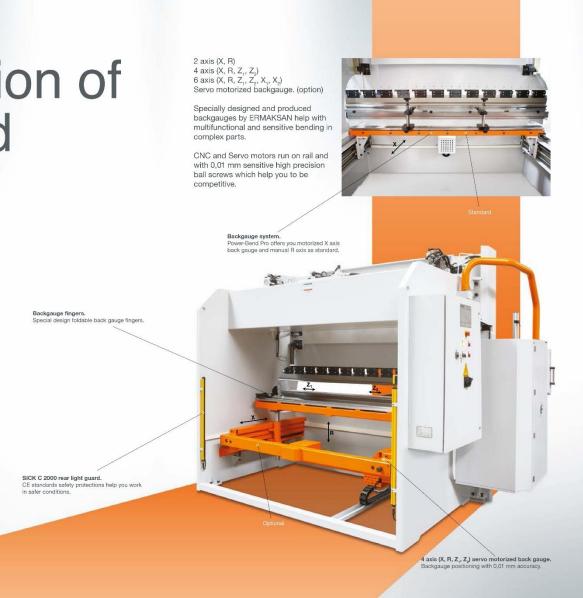




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Combination of speed and power

- ↓ High Free Fall Speed
- → High Bending Speed
- ↑ High Return Speed
- High quality and repetitive bending is obtained by using synchronized cylinders and valves.
- Automatic utilisation of all axes on startup.
- All ERMAKSAN machines are designed using SOLID WORKS 3D programming and made with enhanced ST44-1 quality steel using the latest technology.
- Rigid upper beam runs on 8-point bearings with bending precision of 0,01 mm.
- Well-known top and bottom tool brands are long lasting hardened and provide precise bending.
- Silent high pressure pump.





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Your best bending solution

- Perfect configuration for sensitive bending and economic solutions.
- → Precise results for long and deep bends.
- → Continuous sensitivity with crowning system.
- Long lasting rigid body is also suitable for heavy duty applications.
- → Easy maintenance.

Your best bending solution;

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





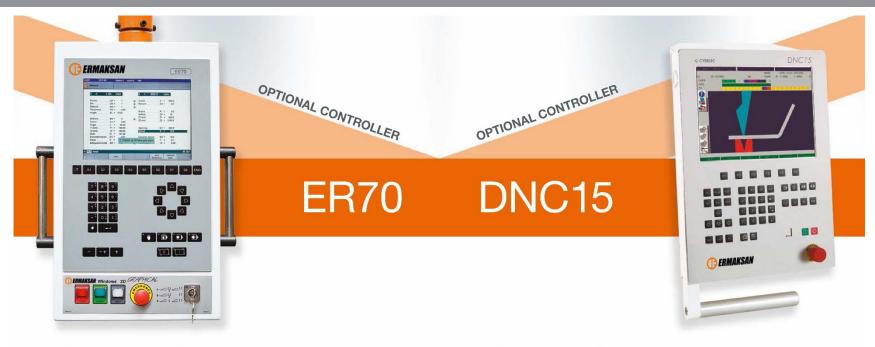




SHOKA Machine Tools

CNC PRESS BRAKE MODEL PB

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General features

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

- Screen dimension: 10,4" TFT monochrome.
- OS: WINDOWS.
- Memory: 64 MB.
- Memory for end users. Min 2 GB, approximately 1000 programs.
- Programming feature for up to 99 steps.
- Maximum 99 steps for single program.
- Y1, Y2, X, R + motorized crowning (Max 5 axis)
- Tooling and V DIE memory 30/60.
- USB back up available for lost info.
- Additional 2 USB ports for your keyboard or mouse.
- Ethernet sample piece transfer. (Optional)
- Offline 2D part programming. (Optional)

General features

- 15-inch colour touch screen, 2D graphic software
- 2D offline software
- Available in 2 versions: 4 or 7 axes either in panel or box design
- Simple keyboard with large keys
- Bending solutions are displayed graphically in 2D
- Indicates possible collisions with the tools or the machine frame.
- Shows the position of the sheet within the tools.
- Conversion Inch/mm, TON/TONS etc.
- Measurement of speed, stopping time and leakage of the beam.
- Management of CE safety cycles.

- Interactive display of safety utilities and customized messages.
- Windows XP Embedded
- 256 MB ram
- Mass memory by compact flash (1 GB)
- 4 USB 1.1 (2x external, 2x internal),
 1 parallel (printer), 1 RS232, 1 RJ45
 Ethernet, 1 VGA ports

Languages:

French, German, English, Italian, Spanish, Portuguese, Swedish, Danish, Finnish, Dutch, Hungarian, Polish, Czech, Slovene, Russian, Turkish, Chinese, Taiwanese.

Other languages on request.

SHOKA Machine Tools

CNC PRESS BRAKE MODEL PB

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General features

- Windows-style operating system.
- 2D and 3D programming.
- 3-D drawing feature.
- 2D DXF and 3D 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 keyboard and mouse usage possibility.
- Angle measurement and control through IMG 100 system.
- Enabling tandem type operational application.
- Help menu.
- Operator identification.

- Automatic tool selection from library for bending parts.
- 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 / us tons unit alterations.
- ER90 PC offline software.
- 4 usb ports.
- Language options: Turkish, Czech, Dutch, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Finnish, Chinese.

ERMAK CAD/CAM Bending Simulation Software:

- 3D solid part import.
- Automatic bend sequence calculation
- Automatic tool selection from library.



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Safety Systems

Top Tool Clamping Systems



Fiessler Akas LCIIM Protection System (O)



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



C 2000 Rear Light Guard (S)
CE standards safety protections help you work in safer conditions.



DSP Laser Protection System (O)



SICK Light Barrier (O)



IMG 100 laser Safe and Angle Measurement System (O)
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.



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



Pneumatic Tool Clamping System (0)
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 (0)
Hydraulic tool clamping systems clamp, correct and center the tools automatically without need for air. These are perfect solutions to shorten the setup timing and for automated press brakes.



Wila Tool Clamping System (O)

- (O) Optional - (S) Standar

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Bottom Tool Clamping and Crowning Systems

Other Equipment



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



Hydraulic Bottom Tool Clamping System (O)



CNC Motorized 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 400 TN 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.
On 260 and 320 TN standard.



Throat (0) Special throat depths are offered up to 1500 mm for large bends.



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. (0) They enable you to increase the production performance and quality.



Sliding Front Support Arms (S)



Backgauge Fingers (S)
Specifically designed folding backgauge fingers.



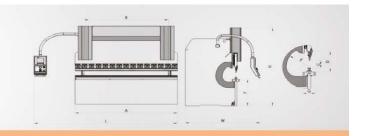
Tool Storing Cabinet (O)

. (Cli Online) . (S) Standar

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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 (Sliding front arms)	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	тнвоат рертн	TABLE HEIGHT	TABLE WIDTH	LENGTH	неіднт	WIDTH	WEIGHT
	А	В												С	D	E	F	G	L	Н	W	
	mm	Ton	mm	mm/s	mm/s	mm/s		mm	mm/s	Amount	Amount	lt.	kW	mm	mm	mm	mm	mm	mm	mm	mm	kg.
PB-PRO 1270 - 40	1270	40	1050	140	17	170	-	800	230	2	2	80	5,5	170	387	350	850	90	2150	2300	1650	3050
PB-PRO 1270 - 60	1270	60	1000	200	14	165		800	230	2	2	150	7,5	275	530	410	900	90	2250	2750	1960	4150
PB-PRO 2100 - 40	2100	40	1700	140	17	170	-	800	230	2	2	80	5,5	170	387	350	850	90	2900	2300	1650	3950
PB-PRO 2100 - 60	2100	60	1700	200	14	165	450	800	230	2	2	150	7,5	275	530	410	900	90	3250	2750	1960	5650
PB-PRO 2600 - 60	2600	60	2200	200	14	165	-	800	230	2	2	150	7,5	275	530	410	900	90	3750	2750	1960	6050
PB-PRO 2600 - 100	2600	100	2200	200	9,5	155		800	230	2	2	150	7,5	275	530	410	900	90	3750	2800	1950	6850
PB-PRO 2600 - 135	2600	135	2200	160	10	120	-	800	230	2	2	200	11	275	550	410	900	90	3750	2800	2050	8250
PB-PRO 3100 - 100	3100	100	2600	200	9,5	155		800	230	2	2	150	7,5	275	530	410	900	90	4250	2800	1950	7450
PB-PRO 3100 - 135	3100	135	2600	200	10	120		800	230	2	2	200	11	275	550	410	900	90	4250	2800	2050	8650
PB-PRO 3100 - 175	3100	175	2600	180	10	135	(5)	800	230	2	2	200	15	275	550	410	900	90	4250	2800	2150	9450
PB-PRO 3100 - 220	3100	220	2600	180	11	160		800	230	2	2	300	18,5	275	550	410	900	200	4550	2850	2250	11500
PB-PRO 3100 - 260	3100	260	2600	140	11	135	Manuel	800	230	2	2	300	22	275	550	410	900	220	4550	2900	2350	15000
PB-PRO 3100 - 320	3100	320	2600	140	10,5	150	Manuel	800	230	2	2	400	30	375	650	410	900	240	4550	3200	2450	16800
PB-PRO 3100 - 400	3100	400	2550	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	4550	3470	2650	20840
PB-PRO 3760 - 175	3760	175	3250	180	10	135	3.	800	230	2	2	200	15	275	550	410	900	90	4900	2800	2150	10950
PB-PRO 3760 - 220	3760	220	3250	180	11	160	-	800	230	2	2	300	18,5	275	550	410	900	160	5100	2900	2250	12600
PB-PRO 3760 - 320	3760	320	3250	140	10,5	150	Manuel	800	230	2	2	400	30	375	650	410	900	220	5100	3150	2450	20000
PB-PRO 4100 - 135	4100	135	3600	200	10	120	91	800	230	2	2	200	11	275	550	410	900	90	5100	2800	2100	10650
PB-PRO 4100 - 175	4100	175	3600	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	5100	2850	2150	11950
PB-PRO 4100 - 220	4100	220	3600	180	11	160	15.1	800	230	2	2	300	18,5	275	550	410	900	160	5150	3000	2250	13800
PB-PRO 4100 - 260	4100	260	3600	140	11	135	Manuel	800	230	2	2	300	22	275	550	410	900	200	5150	3000	2350	16700
PB-PRO 4100 - 320	4100	320	3600	140	10,5	150	Manuel	800	230	2	2	400	30	375	650	410	900	220	5350	3150	2450	21750
PB-PRO 4100 - 400	4100	400	3550	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	5450	3470	2650	26330
PB-PRO 4270 - 135	4270	135	3780	200	10	120		800	230	2	2	200	11	275	550	410	900	90	5280	2800	2150	10950
PB-PRO 4270 - 175	4270	175	3780	180	10	135	-	800	230	2	2	200	15	275	550	410	900	90	5280	2850	2150	12350
PB-PRO 4270 - 220	4270	220	3780	180	11	160		800	230	2	2	300	18,5	275	550	410	900	160	5320	3000	2250	14600
PB-PRO 4270 - 400	4270	400	3780	110	8,4	130	Motorized	1000	230	2	2	400	30	375	650	510	1000	240	5600	3470	2650	26550
PB-PRO 6100 - 220	6100	220	5100	130	11	125		800	230	4	4	300	18,5	275	550	410	1100	180	7500	3200	2350	25800
PB-PRO 6100 - 320	6100	320	5100	80	10,5	75	Motorized	800	230	4	4	400	30	375	650	410	1100	180	7500	3350	2450	30900
PB-PRO 6100 - 400	6100	400	5100	80	8,4	65	Motorized	1000	230	4	4	400	30	375	650	510	1100	200	7650	3750	2650	39700

Working speed should be max. 10 mm / sec. at CE certified machines according to the EN12622 norm

Ermaksan reserves the right to make changes on technical specs without prior not