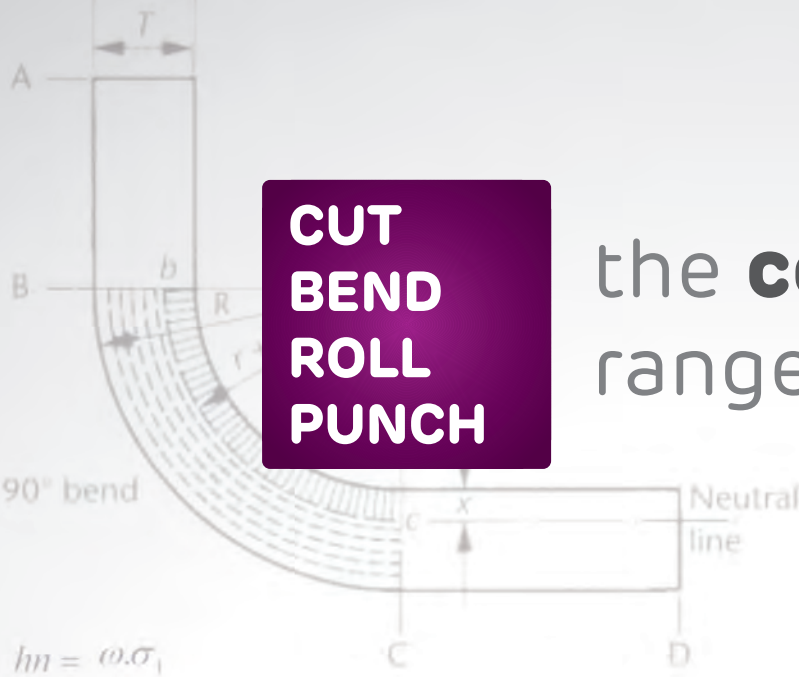
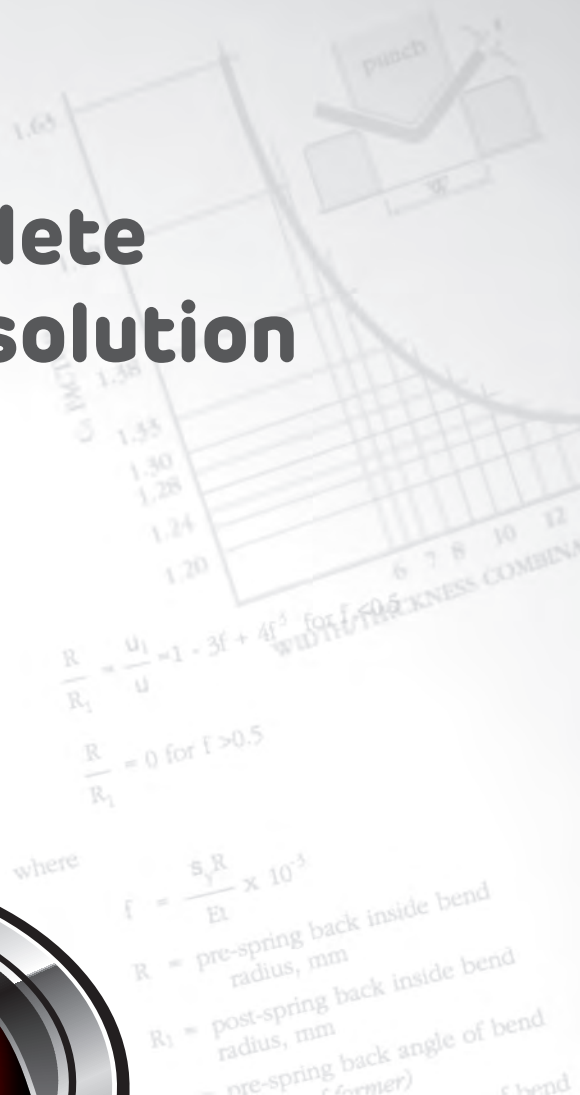


**CUT
BEND
ROLL
PUNCH**

the **complete**
range of **solution**



$$\begin{aligned}
 hn &= \omega \cdot \sigma_1 \\
 k'n &= \omega \cdot KN \\
 k'l' &= \rho \cdot c \\
 hn &= \sigma_\eta \cdot mn \\
 mn &= P_{\eta\omega} \cdot k'l' - Q_{\theta,\eta} \cdot k'n \\
 mn &= P_{\eta\omega} \cdot \rho \cdot c - Q_{\theta,\eta} \cdot \omega \cdot KN \\
 \omega &= \frac{P_{\eta\omega} \cdot \rho \cdot c}{\sigma_1 + Q_{\theta,\eta} \cdot KN}
 \end{aligned}$$



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**FRONT CYLINDER
PRESS BRAKE**

**PRUDENT CNC
PRESS BRAKE**

SCAN FOR LIVE CHAT



ENERGYMISSION
MACHINERIES (INDIA) PVT. LTD.



Energy Mission Machineries (India) Pvt. Ltd. was established in 1999 with strong vision to deliver most reliable & economical solutions in sheet metal industry. Today Energy Mission is one of the fastest growing company with maximum satisfied customer base in India and Abroad.

WE ARE LEADING MANUFACTURER OF

- ◆ CNC Servo Hybrid & Synchro Press Brakes
- ◆ NC / Conventional Hydraulic Press Brakes
- ◆ CNC / NC / Conventional Hydraulic Shearing Machines
- ◆ Four / Three Roll Plate Rolling Machines
- ◆ Hydraulic Iron Workers
- ◆ Hydraulic / NC Busbar Cutting, Bending & Punching Machines
- ◆ Single / Double / Triple Action Deep Drawing Presses
- ◆ CNC Servo H & C Type Presses
- ◆ Punching & Blanking Hydraulic Presses
- ◆ CNC V Grooving Machines

OUR STRENGTH

- ◆ 22 years of Experience in Manufacturing
- ◆ World Class manufacturing facility spread in 2,50,000 sq.ft
- ◆ Production capacity of 1200 machines per annum
- ◆ More than 5000+ installation across India & Abroad
- ◆ Trained & qualified team of 350 employees
- ◆ Dedicated team for design & development
- ◆ Sales & service network all over India
- ◆ Keen quality control on each component & process
- ◆ Awarded as "Outstanding Entrepreneur of Year" in Year 2008-09 & Year 2014-15

OUR VISION

We at "Energy Mission" believe to deliver high quality products at competitive price supported by best service support. To achieve this mission, we have developed in-house manufacturing facilities, focused manufacturing processes with in-depth technology know-how, sales network associates across India & abroad. Enthusiastic team of customer care is always ready to rush within shortest time at the doorstep of customer or any requirements. Our skilled workforce has a proven performance record in satisfying diverse needs of customers around the globe.

HYDRAULIC PRESS BRAKE

RANGE | 30 MT to 600 MT
LENGTH | 1250 mm to 8000 mm

SALIENT FEATURES

- ♦ Front Cylinder Design
- ♦ The Stable robust welded steel Frame made of ultrasonically and tensile tested IS 2062 plate as per guidelines of IMTMA standards
- ♦ Rigid upper beam guide 12-point roller bearings
- ♦ Fast approach & fast return speed to save cycle time, slow pressing speed for better stroke control & bending accuracy, ensures high productivity
- ♦ Repeatability for ram position $\pm 0.03\text{mm}$
- ♦ Positive synchronisation of cylinders with welded torque tube gives better bending accuracy on both ends
- ♦ NC up gradation possible on site
- ♦ All hydraulic & electrical components from reputed make
- ♦ Hydraulic Cylinders made from seamless honed tube, hardened & grounded chrome plated piston rod fitted with twin type zero leak PU Seals
- ♦ Suitable for up gradation with special optional features



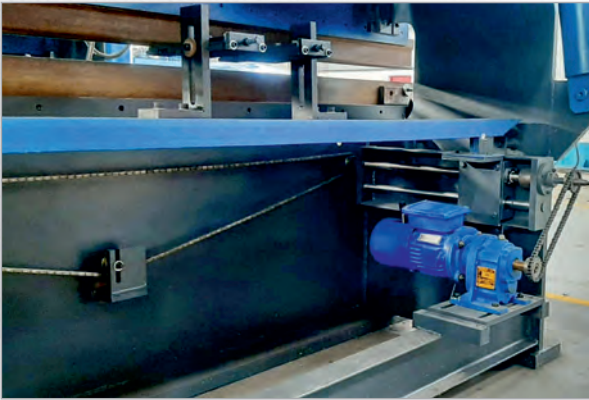
STANDARD ACCESSORIES



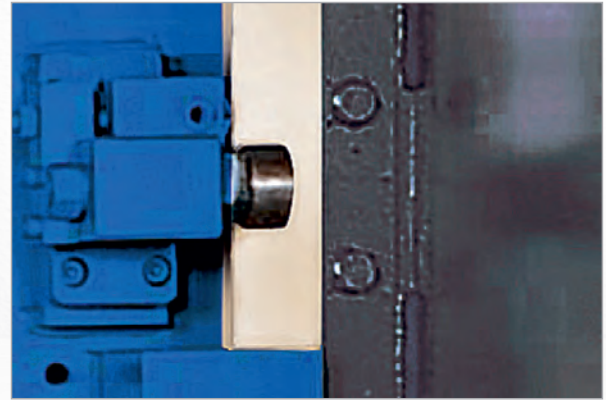
Unhardened & ungrounded multi "V" die and semi gooseneck Punch (Single / Segmented) for standard bending requirements. We also provide special tools suitable for complex & customized bending jobs. As an Optional.



Estun E-21 controller for X axis control



Back gauge assembly included ball screw & Guide Rod



Rigid upper beam guide on 12-point roller bearings

OPTIONAL ACCESSORIES



ESTUN E 200 / 300 Controller



Schneider Controller



CYBELEC TOUCH 8P Controller



Hardened & Grounded Segmented Die & Punch.

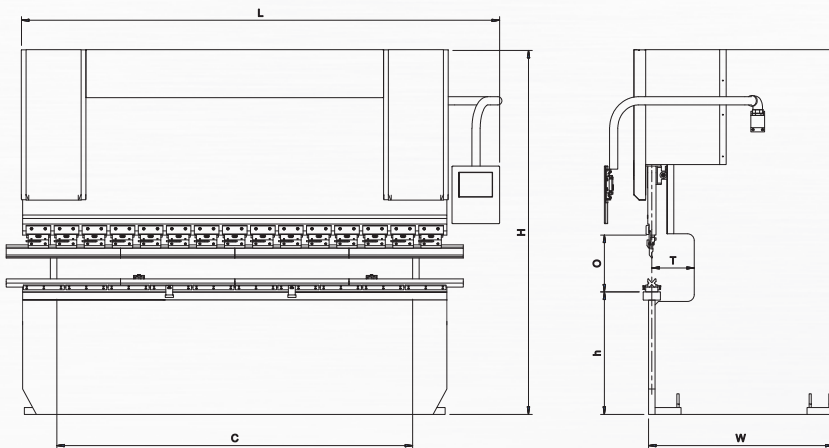


Quick Release Clamp



Allen Key Type Clamp

Model	Tonnage	Table Length	Bending Capacity		B	C	Ram	O	T	Approach	Power	Packing	Weight (Approx.)
	M Ton	mm	mm	mm	Table Width	Clear Pass	Stroke	Open Height	Throat Depth	Pressing Return Speed		Dimensions	
					mm	mm	mm	mm	mm	mm/s	Hp	(L x W x H) mm	Kg
PBF 315	30	1500	2x1500	3x1250	125	1050	100	250	200	50-5-50	3	1700x1150x1900	1900
PBF 320	30	2000	2x2000	3x1250	125	1550	100	250	200	50-5-50	3	2200x1650x2400	2200
PBF 325	30	2500	1.5x2500	2x2000	125	2050	100	250	200	50-5-50	3	2700x1650x2400	2500
PBF 415	40	1500	3 x 1500	4x1250	180	1050	100	250	200	60-7-60	5	1700x1150x1800	2200
PBF 420	40	2000	2.5x2000	3x1500	180	1550	100	250	200	60-7-60	5	2200x1150x1800	2500
PBF 425	40	2500	2x2500	3x1500	180	2050	100	250	200	60-7-60	5	2700x1150x1900	2900
PBF 430	40	3000	1.6x3000	3x1500	180	2550	100	250	200	60-7-60	5	3500x1800x2100	3600
PBF 515	50	1500	4x1500	5x1250	180	1050	100	250	200	60-7-60	5	1700x1150x1900	2600
PBF 520	50	2000	3x2000	4x1500	180	1550	100	250	200	60-7-60	5	2200x1150x1900	3000
PBF 525	50	2500	2.5x2500	3x2000	180	2050	100	250	200	60-7-60	5	2700x1150x1900	3550
PBF 530	50	3000	2x3000	2.5x2500	180	2550	100	250	200	60-7-60	5	3200x1150x2000	4100
PBF 620	65	2000	4x2000	5x1500	180	1550	150	330	200	60-5-50	5	2200x1200x2000	3400
PBF 625	65	2500	3x2500	4x2000	180	2050	150	330	200	60-5-50	5	2700x1200x2000	3800
PBF 630	65	3000	2.5x3000	3x2500	180	2550	150	330	200	60-5-50	5	3200x1200x2000	4350
PBF 640	65	4000	2x4000	2.5x3000	180	3100	150	330	200	60-5-50	5	4200x1250x2400	5000
PBF 820	80	2000	5x2000	6x1500	180	1550	150	330	200	60-5-50	7.5	2200x1550x2100	4200
PBF 825	80	2500	4x2500	5x2000	180	2050	150	330	200	60-5-50	7.5	2750x1550x2300	4800
PBF 830	80	3000	3x3000	4x2500	180	2550	150	330	200	60-5-50	7.5	3250x1550x2300	5400
PBF 840	80	4000	2.5x4000	3x3000	180	3100	150	330	200	60-5-50	7.5	4250x1650x2500	6700
PBF 850	80	5000	2x5000	2.5x4000	180	4100	150	330	200	60-5-50	7.5	5300x1650x2500	9000
PBF 1025	100	2500	5x2500	6x2000	180	2050	150	330	200	50-04-50	10	2700x1550x2300	5500
PBF 1030	100	3000	4x3000	5x2500	180	2550	150	330	200	50-04-50	10	3250x1500x2300	6150
PBF 1040	100	4000	3x4000	4x3000	180	3100	150	330	200	50-04-50	10	4250x1650x2500	7800
PBF 1050	100	5000	2.5x5000	3x4000	180	4100	150	330	200	50-04-50	10	5300x1700x2800	10000
PBF 1060	100	6000	2x6000	2.5x5000	180	5100	150	330	200	50-04-50	10	6300x1750x2900	13500
PBF 1225	125	2500	6x2500	8x2000	230	2050	150	350	300	50-04-50	15	2750x1650x2700	6300
PBF 1230	125	3000	5x3000	6x2500	230	2550	150	350	300	50-04-50	15	3250x1650x2500	7100
PBF 1240	125	4000	4x4000	5x3000	230	3100	150	350	300	50-04-50	15	4250x1650x2600	8750
PBF 1250	125	5000	3x5000	4x4000	230	4100	150	350	300	50-04-50	15	5300x1750x2900	12500
PBF 1260	125	6000	2.5x6000	3x5000	230	5100	150	350	300	50-04-50	15	6300x1800x3000	16000
PBF 1625	160	2500	8x2500	10x2000	230	2050	150	350	300	50-06-60	15	2750x1800x2500	7150
PBF 1630	160	3000	6x3000	8x2500	230	2550	150	350	300	50-06-60	15	3250x1800x2600	8300
PBF 1640	160	4000	5x4000	6x3000	230	3100	150	350	300	50-06-60	15	4300x1800x2700	11500
PBF 1650	160	5000	4x5000	5x4000	230	4100	150	350	300	50-06-60	15	5300x1850x3000	15500
PBF 1660	160	6000	3x6000	4x5000	230	5100	150	350	300	50-06-60	15	6300x1900x3200	19250
PBF 2025	200	2500	10x2500	12x2000	300	2050	200	400	300	50-04-65	20	2850x1900x2600	11000
PBF 2030	200	3000	8x3000	10x2500	300	2550	200	400	300	50-04-65	20	3350x2050x2750	12250
PBF 2040	200	4000	6x4000	8x3000	300	3100	200	400	300	50-04-65	20	4350x2050x2800	14000
PBF 2050	200	5000	5x5000	6x4000	300	4100	200	400	300	50-04-65	20	5350x2100x3100	17250
PBF 2060	200	6000	4x6000	5x5000	300	5100	200	400	300	50-04-65	20	6350x2200x3500	21500
PBF 2530	250	3000	10x3000	12x2500	300	2550	200	400	300	50-04-65	20	3350x2100x2800	13000
PBF 2540	250	4000	8x4000	10x3000	300	3100	200	400	300	50-04-65	20	4350x2000x2900	22500
PBF 2550	250	5000	6x5000	8x4000	300	4100	200	400	300	50-04-65	20	5350x2150x3200	18000
PBF 2560	250	6000	5x6000	6x5000	300	5100	200	400	300	50-04-65	20	6350x2250x3600	22500
PBF 3030	300	3000	12x3000	14x2500	300	2550	200	400	300	50-06-50	25	3350x2150x2900	13750
PBF 3040	300	4000	10x3500	12x3000	300	3100	200	400	300	50-06-50	25	4350x2150x2900	15500
PBF 3050	300	5000	8x5000	10x4000	300	4100	200	400	300	50-06-50	25	5350x2200x3400	21000
PBF 3060	300	6000	6x6000	8x4500	300	5100	200	400	300	50-06-50	25	6350x2300x3800	24000
PBF 4030	400	3000	16x3000	20x2500	300	2550	250	500	350	50-05-60	30	3350x2200x3000	17500
PBF 4040	400	4000	12x4000	16x3000	300	3100	250	500	350	50-05-60	30	4350x2200x3000	22500
PBF 4050	400	5000	10x5000	12x4000	300	4100	250	500	350	50-05-60	30	5350x2250x3600	26500
PBF 4060	400	6000	8x6000	10x5000	300	5100	250	500	350	50-05-60	30	6350x2350x4000	32000
PBF 5030	500	3000	20x3000	25x2500	300	2550	250	500	350	50-05-60	40	3350x2200x3200	21250
PBF 5040	500	4000	16x4000	20x3000	300	3100	250	500	350	50-05-60	40	4500x2200x3300	25500
PBF 5050	500	5000	14x5000	16x4000	300	4100	250	500	350	50-05-60	40	5350x2400x3900	32000
PBF 5060	500	6000	10x6000	14x5000	300	5100	250	500	350	50-05-60	40	6350x2500x4250	36750
PBF 6040	600	4000	18x4000	25x3000	300	3100	250	500	350	50-05-60	50	4500x2200x3500	31500
PBF 6050	600	5000	14x5000	18x4000	300	4100	250	500	350	50-05-60	50	5350x2300x3700	37500
PBF 6060	600	6000	12x6000	14x5000	300	5100	250	500	350	50-05-60	50	6350x2600x4350	44250



Note :
Other Models are
available as per
requirements



CNC PRESS BRAKE

RANGE | 80 MT to 160 MT
LENGTH | 2500 mm to 3100 mm

PRUDENT SERIES

SALIENT FEATURES

- ♦ 3Axis machine with automatic, accurate & fast backgauge
- ♦ Manual Crowning Table
- ♦ S630 controller from ESA Italy or equivalent
- ♦ Rigid upper beam guide on 12-point roller bearings
- ♦ Ultrasonically & tensile tested IS:2062 grade steel structure ensures the rigidity & avoid deflection
- ♦ The frame is machined on FLOOR BORING MACHINE ensuring single reference accurate machining
- ♦ Allen Type clamps with taper wedges
- ♦ Back gauge assembly included ball screw, AC Servo drive, LM guides & timer belt
- ♦ Back gauge fingers mounted on LM guide
- ♦ Quick 'V' groove change over with self-centred die with rail
- ♦ Hardened & grounded 2'V' / 4'V' die & semi gooseneck punch

ACCURACIES

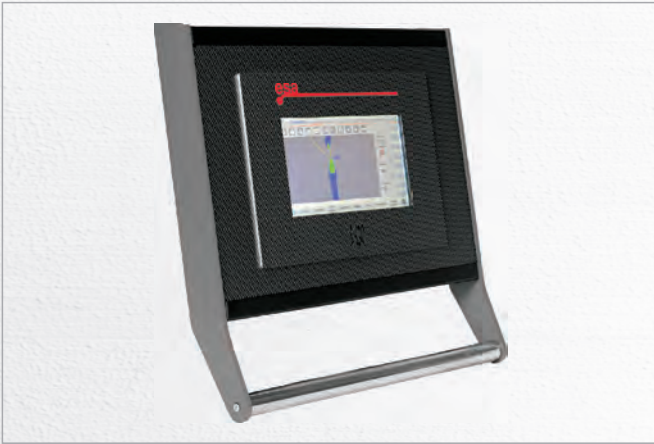
- ♦ Press Beam Depth Accuracy : $\pm 0.01\text{mm}$
- ♦ Press Beam Depth Repeatability : $\pm 0.01\text{mm}$
- ♦ Back Gauge Accuracy : $\pm 0.1\text{mm}$
- ♦ Back Gauge Repeatability : $\pm 0.1\text{mm}$



ESSENTIAL DOORBUSTER



STANDARD ACCESSORIES



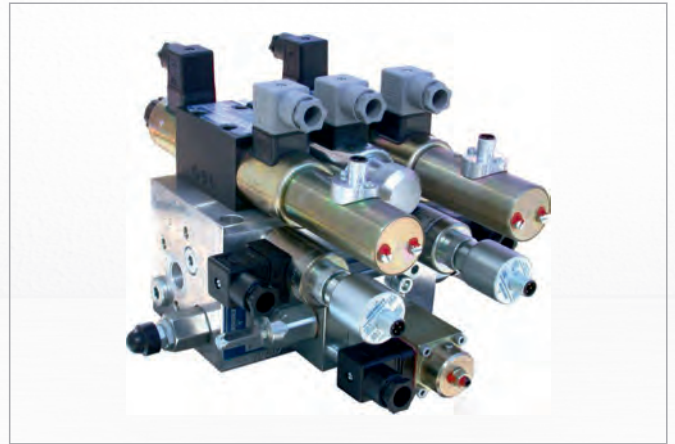
ESA S630 Press Break Controller from ESA Italy



- Self-Centered Hardened & Grounded Segmented Single V / 2V / 4V die & Punch
- Various tool profiles are available as an option



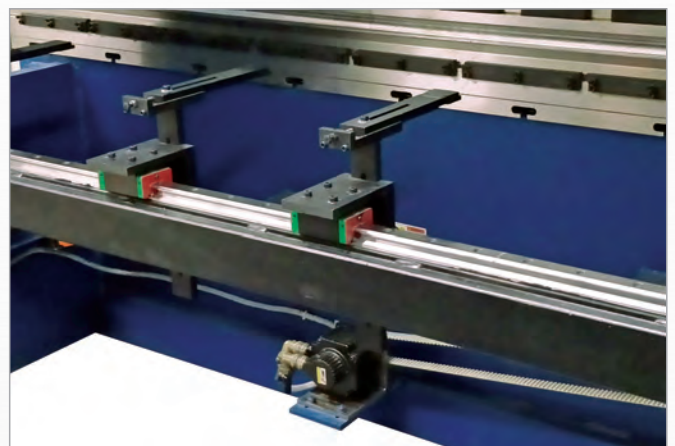
Manual Crowning to get the accurate angle in centre of the machine



Servo Hydraulic from HAWE - Germany / ATOS - Italy / equivalent for Y1-Y2 Axis control



Allen Type Clamps with Tapper wedges for localized bending degree adjustment.

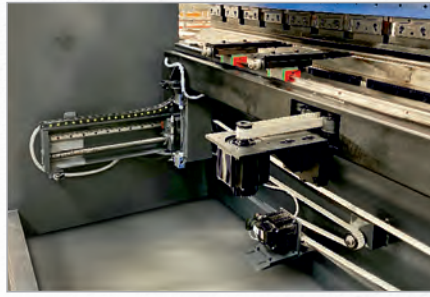


Back Gauge fingers movement in Z axis on LM Guide to maintain the parallelism across the table

OPTIONAL ACCESSORIES



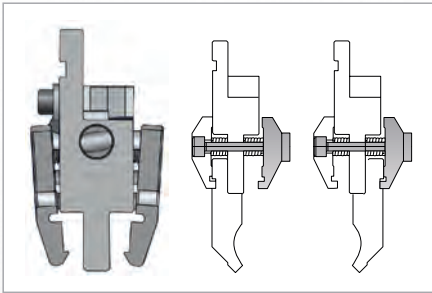
Automatic Single / Bi-Directional Crowning



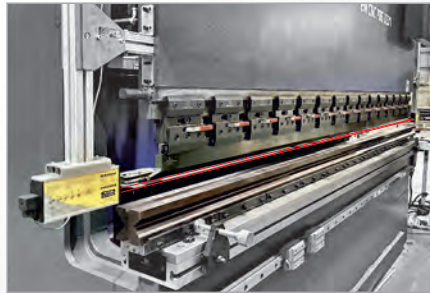
X / R Axis Back Gauge



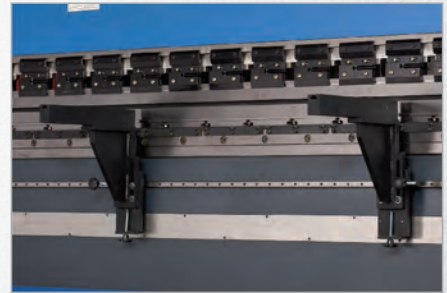
Quick Release Clamp with taper wedges for localized bending degree adjustment



Double Side Mounting Punch Clamp



Laser beam operator safety Integrated with press brake controller



Sliding front sheet support on LM guides

TECHNICAL SPECIFICATIONS

Model	Bending Force	Bending Length	Bending Capacity	Clear Pass	Open Daylight	Stroke	Table Width	Throat Depth	Main Motor	Approch Speed	Working Speed	Return Speed	X Axis Travel
	M Ton	mm	mm	mm	mm	mm	mm	mm	Hp	mm/s	mm/s	mm/s	mm
PBP 0825	80	2500	4 x 2500	2050	385	150	90	200	7.5	100	6	80	400
PBP 1031	100	3100	4 x 3100	2600	385	150	90	250	10	100	7	80	400
PBP 1231	125	3100	5 x 3100	2600	385	150	90	250	12.5	100	6	65	400
PBP 1631	160	3100	6 x 3100	2600	385	200	90	250	15	100	6	80	400



ACHIEVEMENT



**AWARDED AS
"OUTSTANDING
ENTREPRENEUR
OF YEAR" IN YEAR
2008-09 & YEAR 2014-15**

PRODUCTS



CNC Press Brake



NC / Hyd. Press Brake



Hyd. Press Brake



Double Pinch Plate Roller



CNC / NC Shearing Machine



Hyd. Shearing Machine



Busbar Machine



Iron Worker Machine



Hyd. Deep Drawing Press



Hyd. C & H - Frame Press



Hyd. Servo Press



CNC V Grooving

SOME OF OUR CLIENTS



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