

ACCURATE BENDING



American Made Hydraulic

PRESS BRAKES

Technical Specifications

Frame: Frame is of open throat design with mounting holes in feet. Drilled and tapped holes in feet allow for leveling of the machine.

Bed: Machined flat surface is slotted full length to accommodate standard die holders, filler blocks, misc.

Front & Back of Bed: Machined down 4" to allow a flat surface for mounting various brackets, supports and gauges.

Ram: Solid steel slotted to accept standard dies. Clamping bar is sectional for positive clamping. Upper is machined up to 4" to allow a flat surface for mounting brackets and gauges.

Ram Tilt Adjustment: Micrometer spindle is located on right-hand end of machine which allows for adjustment of desired angle required up to ±0.500 inch. Micrometer allows operator to return to a given setting, parallel to desired angle. By using micrometer reading the machine can return to previous position.

Ram Level: Ram level is accomplished by two hydraulic systems. One for each cylinder, which keeps them parallel. Self-levels at bottom of each stroke even if hydraulic system is out of adjustment.

Hydraulic Cylinder: Direct acting hydraulic cylinder. Cylinder units are one piece, double acting with self-aligning, hardened ball sockets.

Accuracy: Parallelism is maintained at ±0.002 inch in low speed.

When using top and bottom tools on a press brake, a forming system is created which requires analysis to determine the appropriate safeguarding for operator safety and protection.

It is the user's responsibility to ensure that the point of operation is effective and all applicable safety requirements are met.

Operating Controls:

1. Pull to start. Push off. Light is on when in "ON" position.
2. Run/Jog switch. Run position for normal operation. Jog position for loading of tooling, maintenance, and set-up. Up/down buttons are used when in jog.
3. 3 Position Foot Pedal
 - a - Ram up
 - b - Ram hold
 - c - Foot pedal down. Ram down allows for jogging of ram down and holding. Emergency stop and emergency up buttons are located on a small pedestal that comes with the foot pedal. Optional palm buttons can be mounted on free standing pedestal.
4. Cycle time delay at bottom of stroke.

Stroke Control (Optional): Control of strokes is accomplished by rotation of handwheels, which read in thousandths of an inch and sets the closed height. When machine is 2 or 3 speed, the knob for setting the speed change point is located on right side for simple adjustments.

Tonnage Control (Optional): Optional adjustable tonnage control to go from lower tonnage to rated tonnage of machine. Machine is equipped with overload protection.

Backgauge: Slide and clamp, 3 axis backgauge 24" is standard.

1. Front operated manual backgauge, hand wheel with mechanical readout (0.01)
2. Front operated power backgauge with LED readout (0.001).

CNC backgauging and front gauging is optional.

Front Support Arms (Optional): 24" support arms are "slide" type. Optional disappearing stops help to hold the material from sliding backward.

Electrical System: The electrical systems meets NFPA 79 standards. All machines have disconnect switches magnetic starters, 110/120v controls, 208-230/460v 3 phase, others optional.

Motors: American made motors are rated for continuous duty, open drip.

Lubrication: Grease zerks are standard. One shot lube or automatic lubrication is optional.

Safety Features: Betenbender Hydraulic Press Brakes and Shears are built to meet ANSI B11.3 standards. Some of the safety features of the Betenbender Press Brake:

- Emergency stop on pedestal
- Emergency up on pedestal
- Warning signs, safety markings and covers
- Electronics meet JIC standards
- 110/120v control

Specifications are subject to change without notice.

Compliance with OSHA requirements is the legal responsibility of the user and is subject to the local inspectors interpretation of existing standards.

Betenbender Press Brakes are built to meet ANSI B11.3 standards.

Convert Feet To Millimeters Multiply by 304.8		Convert Inches To Millimeters Multiply By 25.4	
2'	609.6 mm	1/8"	3.18 mm
4'	1219.8 mm	3/16"	4.77 mm
5'	1524.0 mm	1/4"	6.35 mm
6'	1828.8 mm	3/8"	9.53 mm
8'	2438.4 mm	1/2"	12.7 mm
10'	3048.2 mm	5/8"	15.88 mm
12'	3657.6 mm	3/4"	19.05 mm
14'	4267.2 mm	1"	25.4 mm