

Salient Features and Accessories

• Rugged construction for durability:

A tough, well dimensioned structure made out of IS 2062 GR. B ultrasonically tested to withstand continuous operation and minimum deflections under full load.

• Ram parallelism by simple design:

The rugged torsion tube ensures parallel motion of ram while avoiding the need for complicated servo hydraulics.

• Consistent bend accuracy:

Stroke setting within 0.01 mm, repetitive accuracy within 0.03 mm for consistency of bend. Better than that of direct mounted cylinder press brakes with limit switch controlled strokes as error is reduced in ratio of leverage.

• Ram guidance:

Continuous accuracy of ram movement is ensured with a special five-piece guide system provided with non-metallic lubrication-free liners for long life.

• Precision Ram control: (Applicable to NC Press Brake only)

The high precision linear encoder is mounted on a steel frame attached to bed and independent of the side frame. This steel frame supports the encoder, which takes ram position readings and feeds them to the controller.



• Ram slows down for bending:

The slow pressing speed allows soft, impact-free bending and results in better tool life. It gives better energy transfer for acute angles and complicated bends metals and protects operator by avoiding whipping of sheet.

• More output with three-speed stroke:

Higher speeds during idle travels & facility to adjust stroke length to suit job ensures faster cycle times for maximising output.

• Easy stroke/depth control: (Applicable to conventional Press Brake only)



Stroke functions are precisely controlled by three trip-dogs. The lower trip-dog controls the depth, the upper trip-dog controls the stroke length and the centre trip-dog controls the point at which the ram changes over from fast to slow speed while bending and slow to fast while returning.

• Easier front gauging with least errors:



It is often faster and more convenient to gauge sheets from front. A clear view of stoppers contacting the sheet also helps avoid gauging errors. Multiple disappearing stoppers and inlaid scale are provided on the two front sheet supports to assist gauging.

• Simple, well designed hydraulics: Hydraulics neatly assembled from reliable

international brands. Most parts are rated for



310 bar pressure while design limits working Pressure below 160 bar ensuring long life to components and freedom from leakages.

Cylinders have hard chrome plated piston rods & precision honed carbon steel bores. The piston and rod seals are backed with teflon ring which provides dual sealing, avoids scratching of bore & total breakdown even in event of seal failure. Seals of cylinders can be changed quickly, without dismantling the ram and its guides, hence use of crane is not required.



• Back Gauge: (Applicable to NC Press Brakes only)

The machine has a precision heavy duty back gauge with ball screws, designed to give long service life with better accuracy.



The gauge heads are adjustable with quick release manual clamps, with double dovetail location to ensure precise repositioning. The vertical movement (R-axis) and cross (Z-axis) of back gauge heads are manually controlled.