

# Hydraulic Plate Bending



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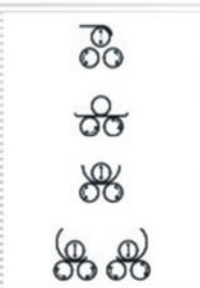


## »» Rajesh Machine Tools Pvt. Ltd. Is preferred by customers for following things.

1. Performance
2. Reliability
3. Quality
4. Technology
5. Experience
6. Service

- Easy to maintain and useful for various jobs.
- Modern design and rigid structure.
- So simply mechanism that even semi-skilled worker can do accurate job.
- First time in India , our machine are fitted with Electric Brake Motor and Control Panel, so that Machine can be stopped at any stage of operations, hence the shape in rolling as per requirement is most possible and due to the movable control panel you can operate Machine very easily.
- Machine is fitted with total 2 nos. Gear Box, Electric Brake Motor, Push Button Type Movable operating switch board and Electric control panel for easy & safe operations.
- First time in India, we only offer the machine with double Gear Box, One is warm gear box and another is spur reduction gear box, due to this the fatigue in operation and overload on electric motor & warm reduction gear box is totally avoided even when machine is Working in over capacity and more over bending operation became more easy.
- Whole machine is made out of quality prime materials.
- Only Top Roll Pressing (Up-Down) and opening-closing of drop-end are through hydraulic System & cylinders all other operations are carried out mechanically in hydro-mechanical version Top Roll Pressing is manually and opening / closing of end-dropper is manual or motorized.
- Hydro-Mechanical Machine required less man power compare to mechanical version, the same directly Effect your production rate and finish job value.
- Apart from above the rates are more competitive in its rang.
- Very useful for getting cylindrical shapes and better performance. It works with 3 Rolls Pyramid principals. Bottom rolls are fixed and driven by Gears and warm Reduction Gear. Box Top roll rotates in fixed positions and can be adjusted up & down manually by adjustable screws.
- Housing are made from M.S.Plate of suitable strength and mounted on heavy base frame, Rolls are made from forged steel and perfectly machined for accurate result. For correct feeding and grip axial grooves are provided on bottom rolls. Screw jack is given to keep top roll horizontal when formed shall is to take out.

## »» Steps of Bending Operations :



The Plate can be bent on machine by hammering as shown if the thickness of the plate is half than capacity. Thicker plates should be prevent out side the machine.

Place the Plate between bottom and top rolls by adjusting top roll manually.

Down the top roll and given pressure on the plate. Then start Main motor in clock wise direction till one end of the plate comes over first bottom roll Reverse the Motors and get second end on second bottom.

Continue above process until you et desired shall as shown in picture.

## » Technological advantages

All the models are capable of edge bending both the edges of plate and completing the shell in a single insertion. Rolling capacity of all machines is higher than the edge bending capacity. This is quite significant in variable geometry and four roll machines. Highest degree of edge bending can be achieved and an error can be corrected even after the shell is completed.

Four decades of engineering excellence is built into all the models, ensuring aesthetics, reliability and robustness, making Rajesh a benchmark of performance.

## » Salient Features

Cone bending is an inherent feature. No extra attachment needed.

- Superb quality & appearance
- Coaxial planetary gear drive
- Complete overload protection
- Convenient centralized controls
- Both edge bending in minimum time
- Push button operated swing arm for removal of shell

## » Several optional features

- Top roll drive for thin plates
- Plate squaring (alignment) arrangement
- Small diameter top roll for small shell rolling
- Central and side shell supports for large shells

## » The CNC Technology

- Easy program input & user-friendly operator interface
- Automatic positioning of rolls as per stored program
- Various operating modes to suit job conditions
- Capacity to store & recall several programs
- Very convenient to reproduce a job once made
- Electronically synchronized roll movement
- Cone bending parameters included
- Operates on hardware of reputed international brand

Note: Features depend on model selected

## » Plate bending machine models

### Three Roll

Having inclined bottom roll travel

### Variable Geometry

With independent horizontal travel of bottom rolls and vertical travel of top roll

### Four roll

With swivelling movement of side rolls



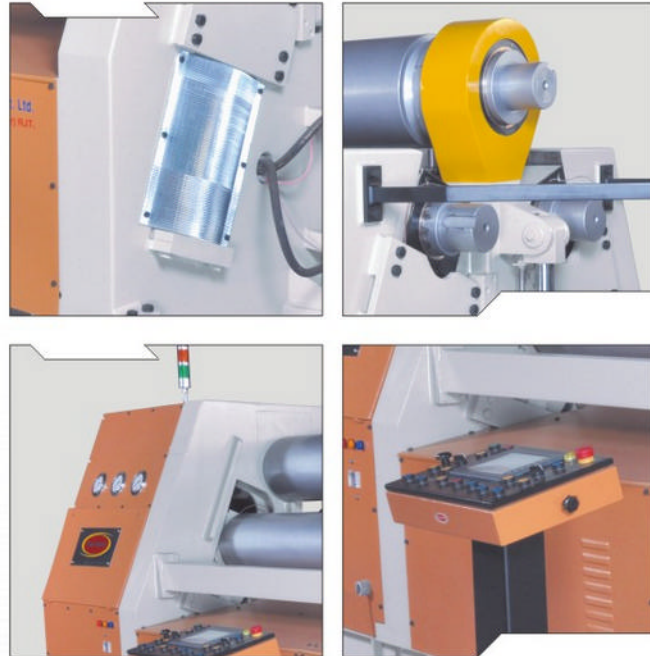


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*The Sign of Success*

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