

# Hydraulic Asymmetrical 3-Roller Plate Bending Machine

This 3-roller hydraulic asymmetrical plate rolling machine bends metal plates into cylindrical, conical, or other curved shapes. Its hydraulic system offers precise control, and the asymmetrical roller arrangement allows pre-bending of plate edges.



## Overview

### High-Precision Plate Bending Solution

This hydraulic asymmetrical 3-roller plate bending machine is engineered for precision rolling of metal plates into cylindrical and conical shapes. Its asymmetrical design allows for efficient pre-bending of plate edges, significantly reducing flat ends on the workpiece. Built with a heavy-duty steel frame, it provides the stability and durability required for demanding industrial applications such as pressure vessel and tank manufacturing.

## Mechanical Design

Roller Configuration	Three-roller asymmetrical symmetry
Top Roller Movement	Vertical motion via screw, nut, and worm transmission
Drive System	Decelerator gears on bottom rollers providing torsion moment

## Capabilities

Forming Capabilities	Cylindrical, Conical, Curved Shapes
Pre-Bending Feature	Yes

## Operation & Maintenance

### Key Design Benefits

- Compact construction for space efficiency
- Convenient operation for operators
- Simplified maintenance routines
- Precise hydraulic control

## Applications

### Target Applications

Pressure Vessels • Storage Tanks • Structural Components • Metal Fabrication