

Profile Bending Machine with Digital Display

This arc down-adjusting NC digital display three-roller machine is specially used for profile bending. It can bend round and arc shape workpiece and is widely used in oil, chemistry, ship-building, water and electricity, metal structure and machine making industry.



ADDITIONAL IMAGES



Product Overview

Precision Profile Bending

This arc down-adjusting NC digital display three-roller machine is engineered for high-precision profile bending, enabling the transformation of straight metal profiles into curved or cylindrical workpieces. Utilizing the principle of three points to form a circle, it offers robust hydraulic control for demanding industrial applications including shipbuilding, chemical processing, and metal structure fabrication. The integration of a digital display system ensures consistent, repeatable accuracy for complex bending tasks.

Operational Mechanics

Movement Mechanisms

- Hydraulic lower roller arc movement for pressure application
- Hydraulic motor-driven upper and lower roller rotation for continuous deformation
- Hydraulic cylinder-driven roller lifting for multi-specification versatility

Drive Configuration

Lower Roller: Main Drive, Upper Roller: Auxiliary Drive

System Components

Key Components

Hydraulic System, Electrical System, NC Digital Display, Supporting Roller, Mould, Transmission Part

Industry Applications

Target Industries

- Oil & Gas
- Chemistry
- Ship-building
- Water & Electricity
- Metal Structure Fabrication
- General Machinery