

Seven-Roll Vertical Straightening Machine

This vertical straightening machine utilizes a seven-roll system to correct bends in metal. It includes a feeder system and electric control, hydraulic, pneumatic, and lubricative devices.



Product Overview

Seven-Roll Vertical Straightening System

The SMV7 series is an advanced seven-roll vertical straightening machine designed for high-precision processing of bars, tubes, sections, wires, and plates. It utilizes an optimized quasi-double curve rolling system to achieve superior straightening accuracy compared to traditional multi-roll equipment. Equipped with Siemens digital drive control and full-course PLC automation, this machine provides constant power and torque output while ensuring reliable, consistent performance in demanding industrial environments.

Technical Performance

Performance Highlights

1100 N/mm²

Max Yield Strength

1 mm/m

Straightening Precision

Model Specifications

Bar Diameter (mm)	Speed (m/min)	Motor Power (kW)
6-20	10-60	30*2
12-60	10-75	75*2
20-80	10-75	90*2
30-100	10-75	132*2
50-150	10-60	230*2
80-200	10-60	480*2
130-250	10-45	520*2

Control Systems

Key Automation Capabilities

- Siemens full-digital DC/AC gear with stepless speed
- Self-adaptive AGC control system
- PLC system with PROFIBUS-DP field bus communication
- Human-machine interface (HMI) for full-course process control
- Sound/light alarming system for fault detection

Operational Modes

Automatic, Manual, Semi-automatic