

# Seven-Roll Steel Tube and Bar Straightening Machine

This vertical straightening machine utilizes a seven-roll configuration for straightening steel tubes and bars. It includes a straightening machine and feeder system, along with electric control, hydraulic, pneumatic, and lubrication devices.



## Overview

### High-Precision Seven-Roll Straightening Technology

The SMV7 series features an advanced seven-roll configuration that combines the benefits of two-roll and multiple-roll systems for superior straightening precision. By utilizing a flexible, load-controllable frame and an integrated PLC-based control network, this machine ensures efficient processing of bars and tubes. The system includes robust hydraulic protection and Siemens-driven transmission, making it a reliable solution for demanding industrial straightening requirements.

## Key Features

### Core Features

- Optimized quasi-double curve straightening system
- PLC-integrated automatic control network with PROFIBUS-DP
- Siemens full-digital DC/AC transmission for constant torque
- Hydraulic overload protection and rapid oil supplementation
- Self-adaptive AGC system for balanced motor performance

## Performance Specifications

### Operating Limits

**1100 N/mm<sup>2</sup>**

Max Yield Strength

**1 mm/m**

Straightening Precision

**20 mm/m**

Max Original Curvature

### Model Range Configuration

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