

Cable Stranding Machine for Wire Core Production

This machine is designed for manufacturing various wire types, including copper, aluminum, and ACSR strands, without back twisting. Equipped with a pressing device, it can strand sector conductors, round conductors, and compacted & pre-spiraled separated conductors.



Overview

High-Precision Cable Stranding Solution

This industrial cable stranding machine is engineered for the high-volume production of wire cores, offering versatile loading options including bottom, top, and side-loading. It features advanced pneumatic or manual bobbin clamping systems with mechanical safety locking to ensure reliable operation. The integration of PLC controls and digital DC drivers provides a sophisticated interface for precise technical data management and consistent production quality.

Key Performance Metrics

Performance Highlights

55.1 m/min

Max Production Speed

45 mm

Max Production Diameter

2500 mm

Haul-off Wheel Diameter

Technical Specifications

Material Processing Capabilities

Parameter	Copper Wire	Aluminum Wire
Single Wire Diameter (mm)	1.5 - 5.0	1.8 - 5.0
Stranding Cage Speed (r/min)	61 - 164	46 - 124
Stranding Pitch (mm)	50 - 903	66 - 1197

Operational Features

Bobbin Loading Methods	Bottom-loading, Top-loading, Side-loading, Individual Loading, Integral Loading
Clamping Mechanism	Pneumatic or manual clamping via worm gears or hand wheels with mechanical safety locking.

Control Systems

Payoff Tension Control

- Mechanical friction control
- Air force tension control
- Constant tension maintenance via electric control system

Automation & Safety

- PLC and touch screen interface
- Digital DC drivers for motor control
- Mechanical and electrical wire-breaking tests
- Real-time technical data modification

Machine Configuration

Standard Components

Pay-off strand • Stranding cartage • Compact die stand • Double draught wheels • Take up device • Traverse device • Taping head

Charge Reel Specification

PN2500