

Non-Backtwist Cable Stranding Machine for Wire and Cable Manufacturing

This machine is used for manufacturing wire without back twisting, including copper and aluminum strands, as well as ACSR. It can also twist insulated wire or strand and, when equipped with a pressing device, strand sector, round, and compacted conductors.



Overview

High-Performance Non-Backtwist Stranding

This advanced stranding machine is engineered for the high-precision manufacturing of copper and aluminum wires without backtwist. It features a robust cage design with a whole shaft construction to eliminate eccentricity, ensuring superior conductor quality. With flexible loading options and sophisticated tension control, this system maximizes productivity while maintaining consistent output for professional cable production.

Key Performance Metrics

Performance Highlights

55.1 m/min

Max Production Speed

164 r/min

Max Cage Speed

45 mm

Max Production Dia.

Technical Capabilities

Material Processing Range

Material Type	Single Wire Dia. (mm)
Copper	1.5 – 5.0
Aluminum	1.8 – 5.0

Stranding Pitch Range	50mm - 1197mm
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Operational Features

Bobbin Clamping

- Pneumatic clamping
- Manual clamping via worm gears
- Manual clamping via hand wheels
- Integrated mechanical safety locking

Bobbin Loading Methods	Bottom-loading, Top-loading, Side-loading, Individual Loading, Integral Loading
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Control Systems

Pay-off Tension Control

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

Automation & Safety

- PLC and Touch Screen interface
- Digital DC drivers for motor control
- Mechanical wire-breaking test
- Electrical wire-breaking test

Machine Configuration

Standard Components

Pay-off Strand • Stranding Cartage • Compact Die Stand • Double Draught Wheels • Take-up Device • Traverse Device • Taping Head

Haul-off Wheel Diameter	2500 mm
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Charge Reel Specification	PN2500
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