

Non-Backtwist Cable Stranding Machine

This machine is used for manufacturing copper, aluminum, and ACSR wires without back twisting, as well as twisting insulated wire or strand. When equipped with a pressing device, it can strand sector conductors, round conductors, and compacted & pre-spiraled separated conductors.



Overview

High-Performance Non-Backtwist Stranding

This Non-Backtwist Cable Stranding Machine is designed for the high-precision manufacturing of copper and aluminum conductors. It features a whole-shaft twisting cage design without eccentricity, ensuring uniform tension and preventing stranded wires from loosening when cut. With versatile loading options and advanced digital controls, it provides a reliable solution for professional cable production.

Technical Performance

Key Performance Metrics

55.1 m/min

Max Production Speed

45 mm

Max Production Diameter

164 r/min

Max Cage Speed

Input Wire Diameter Range

Material	Min Diameter (mm)	Max Diameter (mm)
Copper	1.5	5
Aluminum	1.8	5

Haul-off Wheel Diameter

2500 mm

Stranding Pitch Range

50mm - 1197mm

Mechanical Design

Bobbin Loading Methods

- Bottom-loading
- Top-loading
- Side-loading
- Individual or integral loading

Bobbin Clamping

Pneumatic clamping or manual clamping via worm gears/hand wheels with mechanical safety locking.

Pay-off Tension Control

Mechanical friction or air force tension with electric constant-tension control.

Control & Safety

Wire-Breaking Detection

Mechanical • Electrical • Dual-Mode

Electrical Control

PLC Controlled, Touch Screen Interface, Digital DC Drivers, DC Motor Drive

System Configuration

Standard Configuration

- Pay-off strand
- Stranding cartage
- Compact die stand
- Double draught wheels
- Take up and traverse device
- Mechanical transmission system
- Electrical control system

Additional Equipment

- Group loading/unloading devices
- Pre-spiral device
- Taping head