

Cable Stranding Machine for Wire Core Production

The machine is used for manufacturing wire without back twisting such as copper strand, aluminum strand and ACSR as well as twisting insulated wire or strand. If equipped with a pressing device, it is used for stranding sector conductor, round conductor and compacted & pre-spiraled separated conductor.



Overview

High-Performance Wire Core Stranding

This industrial cable stranding machine is engineered for the precise production of wire cores using copper and aluminum materials. It features a versatile cage design with multiple loading options—bottom, top, or side—to optimize workflow efficiency. With advanced PLC touch-screen controls and reliable pneumatic clamping systems, this machine ensures consistent quality and safety for large-scale electrical cable manufacturing.

Performance Metrics

Key Performance Metrics

55.1 m/min

Max Production Speed

45 mm

Max Production Diameter

2500 PN

Take-up Reel Model

Technical Specifications

Material Processing Capabilities

Parameter	Copper	Aluminum
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
Haul-off Wheel Diameter (mm)	2000	2500

Mechanical Features

Clamping Mechanism

- Pneumatic clamping
- Manual clamping via worm gears
- Manual clamping via hand wheels
- Mechanical safe locking for all systems

Bobbin Loading Methods

Bottom-loading, Top-loading, Side-loading, Individual Loading, Integral Loading

Control Systems

Wire-Breaking Test Methods

Mechanical • Electrical • Combined

Automation & Drive System

- PLC and Touch Screen interface
- Digital DC drivers for motor control
- Real-time technical data modification
- Whole-line integrated control

Pay-off Tension Control

Dual-mode control: Mechanical friction or constant air force tension via electric control system.

Machine Configuration

Standard Components

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

Optional Attachments

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