

Copper, Aluminum, and ACSR Stranding Machine

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



Overview

High-Efficiency Stranding Solution

This advanced stranding machine is engineered for the precise production of copper, aluminum, and ACSR (Aluminum Conductor Steel Reinforced) conductors. It features a versatile cage design with flexible loading options and sophisticated tension control systems to ensure consistent wire quality. With integrated PLC controls and touch-screen operation, this equipment provides reliable, high-speed performance for demanding cable manufacturing environments.

Technical Specifications

Production Speed

55.1 m/min

Max Speed

Copper Wire Diameter Range	5 mm
Aluminum Wire Diameter Range	5 mm
Production Diameter	45 mm

Operational Features

Bobbin Loading Methods	Bottom-loading, Top-loading, Side-loading
Bobbin Clamping	Pneumatic or manual (worm gear/hand wheel) with mechanical safe locking
Payoff Tension Control	Mechanical friction or air force with electric control
Wire-Breaking Test Methods	Mechanical, Electrical

System Configuration

System Components

- Pay-off strand
- Stranding cartage
- Compact die stand
- Double draught wheels
- Take up and traverse device
- Mechanical transmission system
- Electrical control system
- Group loading and unloading spools devices
- Compact & pre-spiral device
- Taping head

Control System

PLC with touch screen interface and digital DC motor drivers