

Rigid Frame Stranding Machine for Large Section Cable

This 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

Rigid Frame Stranding Machine

This rigid frame stranding machine is engineered for the production of large-section cables, offering robust construction and precise control. It features versatile bobbin loading options and advanced tension management systems, including electric control for constant payoff tension. Designed for reliability, the machine incorporates a whole-shaft twisting cage without eccentricity and includes wire pre-forming units to ensure consistent, high-quality conductor stranding.

Technical Specifications

Single Wire Diameter Range

1.5 mm

Copper Min

5 mm

Copper Max

1.8 mm

Aluminum Min

5 mm

Aluminum Max

Performance Parameters

Parameter	Value 1	Value 2
Production Diameter (mm)	45	45
Stranding Cage Speed (r/min)	61-164	46-124
Stranding Pitch (mm)	50-903	66-1197
Haul-off Wheel Diameter (mm)	2000	2500

Production Speed 55.1 m/min

Charge Reel PN2500

Features

Wire-breaking Test Methods

- Mechanical
- Electrical
- Combined Mechanical & Electrical

Bobbin Loading Options Bottom-loading, Top-loading, Side-loading

Bobbin Clamping Methods Pneumatic, Manual (Worm gear), Manual (Hand wheel)

Control System

Automation & Control

- PLC Control
- Touch Screen Interface
- Digital DC Motor Drivers

Configuration

Machine Configuration

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