



Constant Tension Rigid Strander



AWM Rigid Stranders are designed to produce cables of up to 24 single wires or single fibers in a single pass. Tandem configuration of two 12-reels sections allows for cables of multiple configurations up to 24 single wires or fibers in two layers in a single pass.

The machine is configured with two Precision Machined rigid carrier wheels, positioned in tandem, and rotating in the same direction driven by a common drive shaft; each carrier section contains 12 reels. *Option is available for CW or CCW rotation of either section.* Both carriers are driven by high efficiency timing belts and pulleys for maintenance free operation. The entire Strander is driven by an AC vector motor and controlled by an AC vector drive.

Operator Control:

A touch screen operator control station is supplied as an integral part of the machine. The control panel which houses the drives and associated control components is mounted as an integral part of the machine.

Safety Features:

The entire rotating system of the machine is fitted with a heavy-duty disc brake for quick stopping during emergency stops (brake is applied when power is lost or in emergency stops). The machine is fitted with safety doors and cages for the rear, front and side areas. The safety doors are fitted with electrical interlocks to prevent access to the reels during operation of the machine.

Specifications:

Reel size: 16" Flange Diameter x 16" Maximum Width
Shaft size: 1 3/4" Diameter / Positions: 24 Reels
Max. Rotational speed: 120 RPM / Max. Center Passage: 1 1/4" Diameter

Features

- Constant Lay during line speed changes (during acceleration and deceleration when working in tandem as part of a line).
- Lay can be modified during operation without stopping the line or the machine.
- Actual Lay and Product Tension are displayed in the touchscreen at the control station.
- Closing dies and product guide wheels are located at the exit end of each Strander section to maintain the individual wires or fibers at equidistance.
- The closing die of each Strander section is adjustable to allow for merging angle adjustment.
- Both Strander sections are mounted on a modular rigid frame of tubular construction. No alignment between sections is necessary during installation
- Sliding safety doors/cages manually opened to expose each Strander section for loading and unloading of reels.
- Capable of producing cables of various constructions up to twenty four fibers or fine wires in a single pass.
- Load Cell installed in each stranding section to measure the actual tension of the products being paid off during operation of the machine.
- AC vector drive
- PLC Control