The MGS Group

MGS Manufacturing
HALL Industries

NORTHAMPTON

HIGH SPEED CONE PINTLE REWINDER

Our High Speed Cone Pintle Rewinder includes the following components:

Payoff And Takeup

Each spindle is fitted with a hardened replaceable cone shaped end. One side, (the idle side), is fitted with a sliding splined shaft operated by two air cylinders.

When the reel is rolled in place, the operator presses the close button and the air cylinder operated cone on the left side moves inwardly. This slides the reel slightly onto the other cone and the reel is lifted to clear the floor by ½ to ¾ of an inch.

The drive spindle is fitted with a Neoprene driving disc. This eliminates the need to line up a drive dog.

A powered lift plate moves smaller reels to the correct height for loading.

Payoff And Takeup Drives

Allen-Bradley PowerFlex AC Vector drives set up for dancer control are used. Suitable gearing and stopping brakes are included.

Payoff And Takeup Fine Wire Dancers

Our Fine Wire Dancers provide the best possible tension control for high-speed operation. Among the special features is the use of a near zero friction air cylinder for tension control.

An E/P converter controls the air pressure and is set by the PLC through the operator interface. Non-contact solid-state sensors provide a signal to the Payoff and Takeup drives.

Automatic Fault Locator System
A spark tester, diameter control gauge and lump detector can be installed in the rewind system. ***The MGS Group*** will integrate the units into the control system for proper operation. A sliding bracket for the spark tester bead box can be included to move the box out of the way when not in use.

Line Speed Capstan/Measuring System
A capstan wheel driven by an Allen-Bradley PowerFlex AC Vector drive provides line speed control and length count. Accumulated length, length presets, line speed setpoint and line speed indication are displayed on the operator interface. Calibration screens are provided for individual wire sizes.

Takeup Digital Traverse Control
Our digital traverse system allows the operator to set the traverse lay and reversal points directly on the operator interface. This system greatly facilitates set up in addition to giving an improved traverse lay. A rapid traverse is furnished that allows the traverse to be moved to one side for starting purposes. It can also be used to override the unit while running.

Product Clamps
Two air operated product clamps with adjustable squeeze pressure are provided, one at the Payoff and one at the Takeup.

System Operation
An Allen-Bradley SLC500 Programmable Controller with 5/04 CPU controls all logic functions. A Total Control Products 6 inch color touchscreen operator interface unit allows recipes for different reel and product sizes. Digital set points for footage count, reel size, product size, product tension, line speeds and traverse can be programmed to your specifications. A control console will be mounted on the side of the frame or freestanding for operator convenience.

Product Fault Location
The MGS Group's unique fault locator system automatically backs up the product to the fault location. When a fault occurs, the system ramps down to zero speed and runs in the reverse direction back a few feet past the fault. The fault equipment is then reset and the product is advanced to the desired repair location. A light stack and audible buzzer annunciate the fault locator operation.

Full Lexan Safety Guard Door System
A safety interlocked Lexan guard door will cover the entire front of the Rewinder. It operates vertically to provide the operator with a full view of all operations while protecting him/her from all rotating components. The door is motorized and controlled by the PLC. When the system is started, the door will close automatically. When a fault is located, the system will come to a complete stop and the door will open automatically.

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