



**Royle Systems Group**

Jacketing  
& Armoring



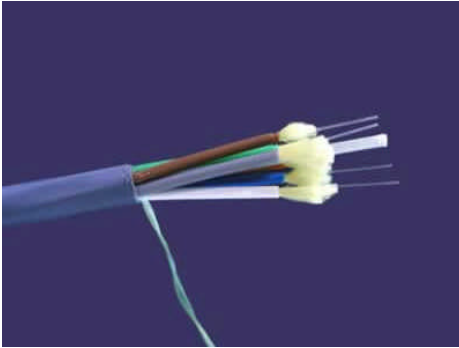
### **Technical Specifications:**

Application:	Fiber Optic Jacketing
Compound:	PE, Nylon
Core Diameter:	7 - 18 mm
Cable Diameter:	10 - 25 mm
Design Speed:	100 MPM
Extruder Size:	100 mm 24:1 L/D
PO Reel Diameter:	750 -1800 mm
TU Reel Diameter:	750 - 2200 mm

### **Features:**

- 1800 mm Payoff
- 100 mm 24:1 L/D Extruder
- Diameter Control System
- Cooling Trough
- 1200 mm Linear Capstan
- Takeup
- Optional: In- Line Tape Armoring System

## 1800 mm Payoff



The unit features a carriage which travels along a rail/beam. The pintles which support the drums are raised and lowered by means of garmotors and are automatically stopped at extreme positions. The main drive motor cannot operate until the drum is raised to top position, which occurs automatically when up button is pressed.

Operator's controls are mounted within a pendant off a pivot arm for ease of movement. The stand incorporates a change gear transmission and mounting arrangements for the main drive motor. The stand is complete with a stationary guide fork.

A float roll assembly is also included to control the speed of the payoff.

## 100 mm 24:1 L/D Extruder



One Gen2000 cerafin heavy duty extruder complete with a fully enclosed gear housing having a self-lubricated reduction drive, lubricating oil fed by gravity to integral roller thrust bearing mounted in its own housing to isolate extrusion pressure and torque overload from gear reduction drive. Also includes spacer ring and water cooled feed section equipped with safety guard.

Cerafin heating/cooling system consisting of a cylinder with bimetallic lining and insulating jacket. Heating/cooling system features ceramic heating units with high velocity air cooling by motorized blowers. Each temperature control zone is independently controlled by a temperature sensing thermocouple. Water cooling pipes and rotary joint for stockscrew. Complete assembly is mounted on a heavy-duty fabricated steel base, prewired, prepiped, and shrouded.

## Diameter Gauge

One non-contact dual plane diameter and width scanning laser light source. This unit is used in conjunction with the diameter monitor, control and data acquisitions system. Also included are the operating system and software for one dual plane diameter scanner. The product specification library with data acquisition software which generates real time SPC control charts with trend analysis is in-

cluded. The system comes with all necessary interconnect cables and pertinent I/O cards for a complete operating system.

### **Cooling Trough**



Made up of one retractable single pass, heavy gauge, stainless steel cooling trough, 10' long with baffles, rigid end flanges, and vertically adjustable support structure. Complete trough is covered, and is provided with a drain box. Also made up of twenty single pass, heavy gauge, stainless steel cooling troughs, 10' long with baffles, rigid end flanges, and vertically adjustable support structure. Each trough section will be provided with an inlet and a drain box.

### **1200 mm Linear Capstan**

One Royle linear capstan with molded continuous belts. Tracks have multiple air cylinders to follow changes in cable diameter. Unit is prepped with an air filter, lubricator, regulator for adjusting clamping force, and manual valve to open and close track with plant air. Adjustable guide rollers are provided at cable entrance and exit. Complete with necessary gearing and heavy duty worm gear reducer. Belt and sheaves for connection of motor are also included.

### **Takeup**

The unit features a carriage which travels along a rail/beam. The pintles which support the drums are raised and lowered by means of gearmotors and are automatically stopped at extreme positions. The main drive motor cannot operate until the drum is raised to top position, which occurs automatically when up button is pressed. Operator's controls are mounted within a pendant off a pivot arm for ease of movement. The stand incorporates a change gear transmission and mounting arrangements for the main drive motor. The stand is complete with a stationary guide fork.

One float roll assembly is also included to control the speed of the takeup.

## Optional In-Line Tape Armoring System

