



MODEL 987

Driven Un-Rolling System Tension Compensated Creel

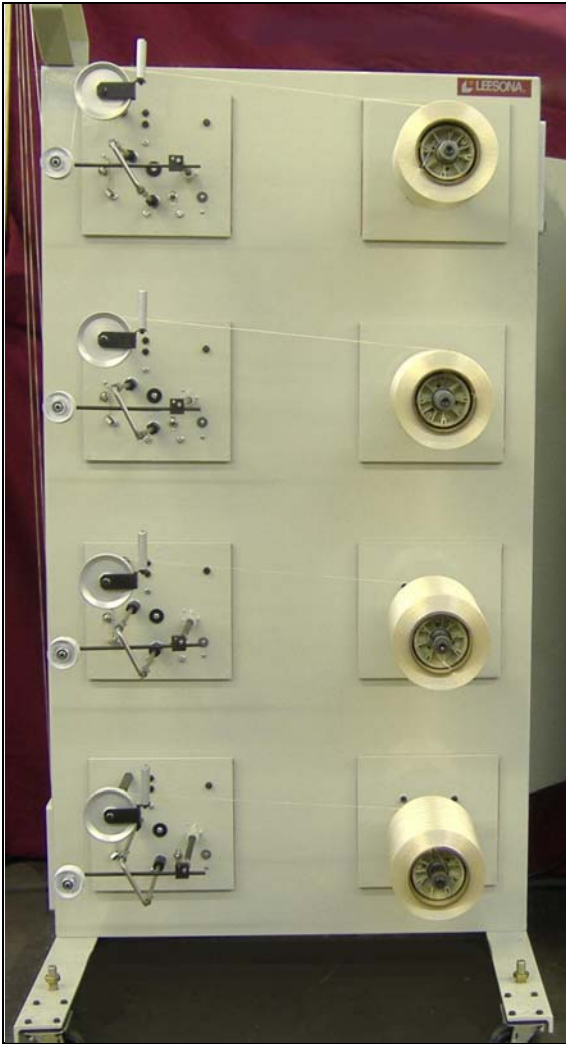


Typical Applications

- ✓ Prepreg
- ✓ Coating
- ✓ Filament Winding
- ✓ Tow Winding



- Maintains fiber orientation & integrity
- Tension remains constant regardless of package diameter
- Adjusts for acceleration & deceleration of process
- Dynamic braking of spindle on yarn break
- Electronic compensated Un-winding torque by LVDT sensor
- Centrally controlled pneumatic tension to all spindles
- All fiber contact surfaces are rolling type to maintain fiber integrity



The **Model 987** can be manufactured in either of two technical designs: 1) positive pay-off and compensated control of tension by operating the torque motor with the flow of the yarn path. 2) tension controlled un-winding of fibers and yarns by operating the torque motor against the flow of the yarn path. Tension to the yarn strand is applied by a pneumatic cylinder connected to each compensator arm. Central control of tension is possible by using an adjustable, single precision air regulator interconnected to all positions. The Model 987 can be manufactured to accommodate a wide range of core diameters and lengths. Longer distance between package and compensator panel minimize scuffing of yarn during un-winding. For applications which do not require precise tension control, the Model 987 is also available without the tension compensation control.

Specifications

PACKAGE SIZE:

Tube Holder Bladed type standard, pneumatic doff optional
 Tube Diameter 2-7/8", 3" (76 mm), 3-1/4", 90 mm, 94 mm

SPEED RANGE:

Application specific: 1- m/min to 300 m/min

TENSION RANGE:

10 grams to 2000 grams depending on required configuration
 Adjustable using air regulator to control tensions to all position

POWER REQUIREMENTS:

Power Supply 220/230 VAC, 3-phase, 50-60 Hz
 Drive Motor 1/12 HP Torque Motor

DIMENSIONS:

Vertical Centers :4-Deck 14.75-inches (374.65 mm)
 5-Deck 13.65 inches (346.7 mm)

STRUCTURE DIMENSIONS:

Height
 4-deck 67.65-inches (1.72m)
 5-deck 73.6-inches (1.87 m)
 DEPTH 39.1 inches (993 mm)
 WIDTH 34.3-inches (871.2 mm)

OPTIONS:

-Pressurized Cabinets
 -Structures on Casters
 -Air Regulator, gage, filters

Combination of maximum values may not be possible

Contact LEESONA for additional application information and assistance

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