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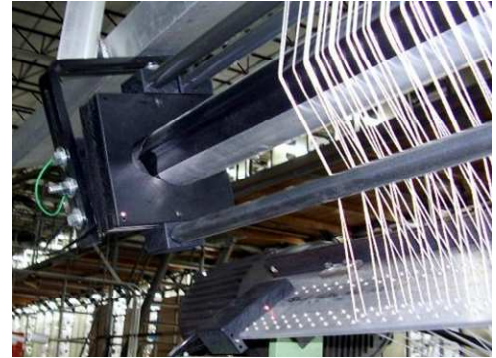
YARN TENSION MONITORING

Essex produces three distinct types of Yarn Tension Detectors

Corporate Office
PO Box 20784
Winston Salem, NC 27120
Phone: 336-761-1112
Fax: 336-499-6237
E-mail: solutions@essexinc.net

Dalton Service Center
2450 Lakeland Road
Dalton, GA 30721
Phone: 706-275-0114
Fax: 706-275-0151
E-mail: essexinc@alltel.net

Conventional Model with one yarn contact strip for the detection of tight yarn ends.



TIGHT END DETECTOR: DOUBLE CONTACT STRIP MODEL

Double Contact Strip Model with two yarn contact strips for use with A and B yarn systems. Also normal with Scroll type Tufting Machines.

New Dimension Model with Double contact strip and integrated with the Essex patented Fiber Optic "Curtain of Light Yarn Break Detection System. Combines Tight-End and Yarn Break Detection in the same unit.



NEW DIMENSION TENSION MONITOR WITH ZERO MEND

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The purpose of all three configurations is to eliminate yarn breaks originating in the yarn creel before they occur and thereby eliminating the mend defect that would be the end result of the broken end. The New Dimension Model provides the added benefit of detecting broken yarn ends that occur for reasons other than excessive yarn tension created in the yarn creel.

TECHNICAL FEATURES:

- Each installation is application engineered for the unique characteristics of the particular Tufting Machine. No “cookie cutter” systems supplied.
- Designed for quick and easy installation between the creel and the Tufting Machine.
- Modular construction allows flexibility as to the width of each yarn contact zone.
- Load sensitive contact strip is extremely sensitive to yarn pressure.
- Pressure sensitivity is easily adjustable over a wide range to accommodate all yarn types.
- Ever-wear shield protects contact strip from yarn abrasion.
- Modular design encourages easy replacement of all components, including the contact strips.
- Digital sensitivity setting across entire width of Tension unit.
- S-Wrap tension rods allow precision tension adjustment per zone never before achieved with Tight End Detectors.
- New Dimension Model detects both tight yarn and broken yarn.
- Programmable micro-processor based control system.
- LED based alarm system mounted on the Tension unit and Control Panel facilitates ease of finding the tight yarn end.
- Integrates easily into the Essex Smart Tufting Management data collection system.

PROCESS BENEFITS:

- Improves quality by eliminating mend defects caused by creel breaks.
- Eliminates “Low-Line” defects caused by creel tension variations.
- Improves machine efficiency by drastically reducing rethreading of the Tufting Machine caused by yarn breaks occurring in the creel.
- Modular design allow ease of maintenance and reduces downtime.
- Dual Contact Strips allow separate sensitivity settings for A and B yarn types.
- New Dimension Model combines tight end and yarn break detection.
- Sensitivity settings are easily reproducible via micro-processor control.
- LED based alarm system reduces downtime when finding the tight end.