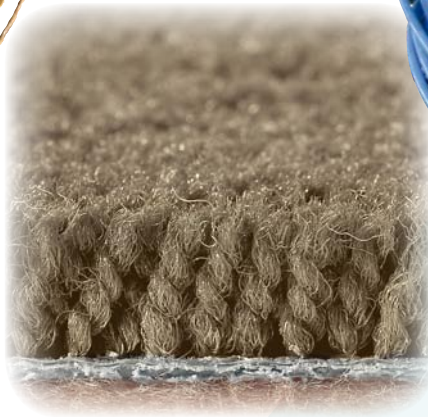
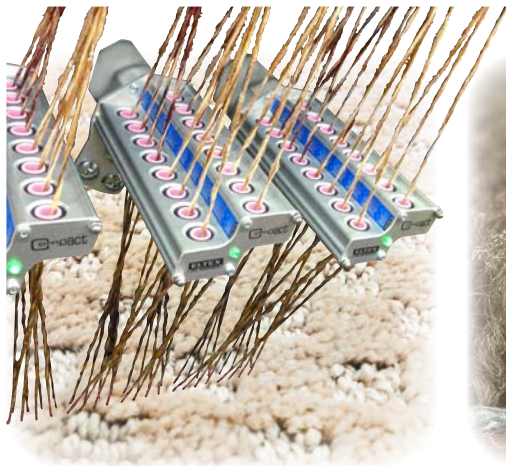




# Eltex Yarn Expert

Yarn fault detection for tufting machines



The Eltex EYE is a flexible system designed for yarn fault detection on tufting machines. It is designed to improve quality and efficiency by reducing mending and down time.



Two different yarn detection principles are available.

## Compact

The yarn sensors are fitted between the feed rollers and the needles.

- 100% of missing yarns in the carpet are detected



The sensors use the well proven piezoelectric principle. They are robust and are not influenced by dust, dirt, humidity or ambient light. The special compact design enables the sensors to be fitted on machines with a gauge as dense as 1/10<sup>th</sup> of an inch.

## CoTS (Clamp on Tube Sensor)

The yarn sensors are fitted on the tubes between the tufting machine and the creel.

- 100% End-Out Detection
- Tight-End Detection for most yarn types



The sensors use infrared technology to check the status of the yarn by detecting through the tubes of the creel. The ability to detect through the tubes means that there is no need to cut the tubes, thereby having no negative effect on yarn travel. The sensors mount directly on the tubes making installation simple and eliminating the need of mounting brackets.

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OF SWEDEN





Compact sensors installed on a tufting machine.



CoTS sensors installed on a tufting creel.



### Master control unit

The master control unit communicates with the sensors and the operator terminal. It processes all the data and gives stop and lamp indication signals when a yarn fault occurs.

### Advantages

- Faulty yarn is specifically identified, resulting in more up-time
- All events are logged in real time and can be used for statistics and diagnostics
- Networkable to a central database
- Automatic addressing of all the system parts
- Easy to change system configuration
- Fast learning of positions in use (no ON/OFF switches on the sensors)
- Simple cables with modular connectors
- Robust sensors in metal housings
- Sensor parameters can be set for different groups of yarns
- Ethernet, CAN Bus, or Modbus (available for OEM interface)
- Easy mounting of sensors



### Operator Terminal

The touch screen operator terminal has a very user-friendly interface. The number of yarns in operation and position of yarn fault are clearly displayed.



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