



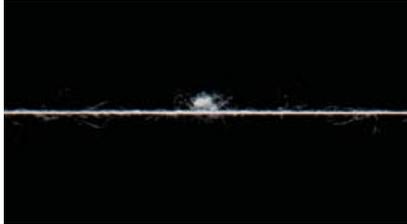
Loepfe



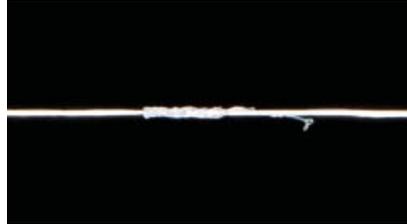
WEFTMASTER® FALCON-i

OPTICAL YARN DEFECTS SENSOR

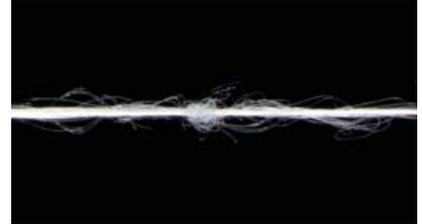
«Removing smallest knots, fluff and filamentation»



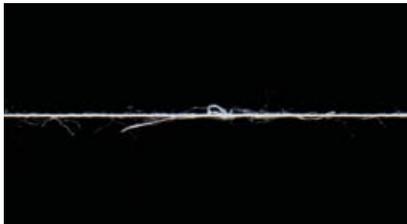
dTex 470: fluff



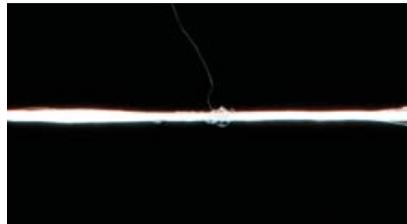
dTex 860: stretch fault



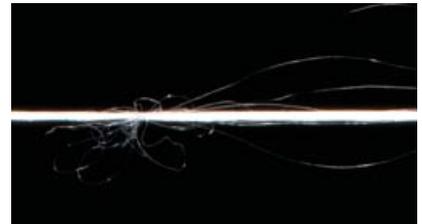
dTex 1100: filamentation



dTex 470: filamentation



dTex 1100: filamentation



dTex 1100: filamentation

EVERYDAY CHALLENGES

WEFTMASTER®
FALCON-i

Removing smallest knots, fluff and filamentation

LOEPFE's novelty in optical quality assurance is reliably removes smallest yarn defects in the textile manufacturing process.

Wherever hardly detectable yarn faults may affect your valuable end product, you will appreciate LOEPFE's FALCON-i as your companion in achieving quality beyond expectations.

The new optical yarn defects sensor FALCON-i is an important innovation contributing to a knotless weaving fabric. All conventional knot detectors have limitations in terms of size of the yarn defects or knots to be detected.

Problems faced in manufacturing high-tech fabrics, such as elimination of smallest knots, fluff or even filamentation from the weft yarn, are solved by installing FALCON-i yarn defects sensors.

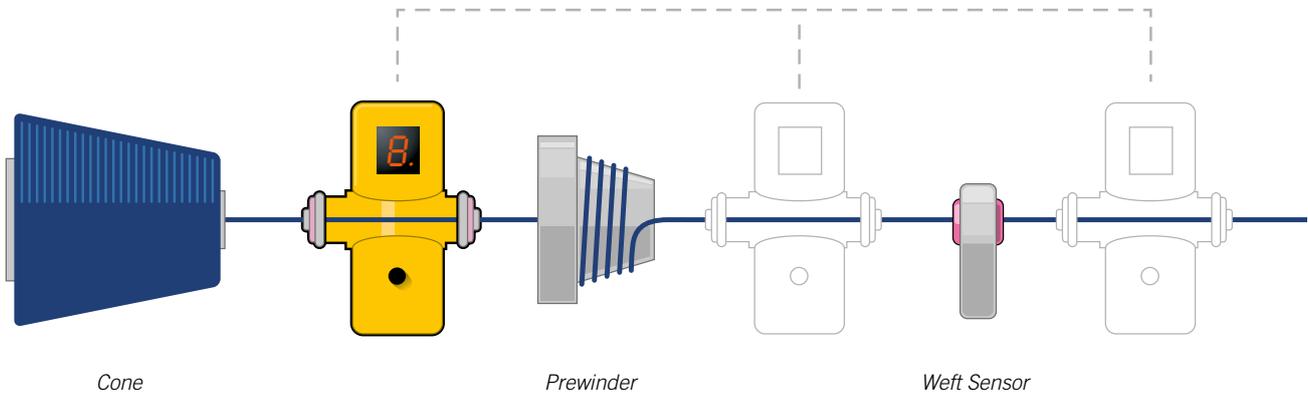
Application

- wide yarn range: 20–3000 dTex
- color of yarn does not matter
- yarn speed up to 30 meters/second
- conductive materials (carbon fibers)
- monofilament or multifilament yarns
- chemical resistant housing

Advantages & Features

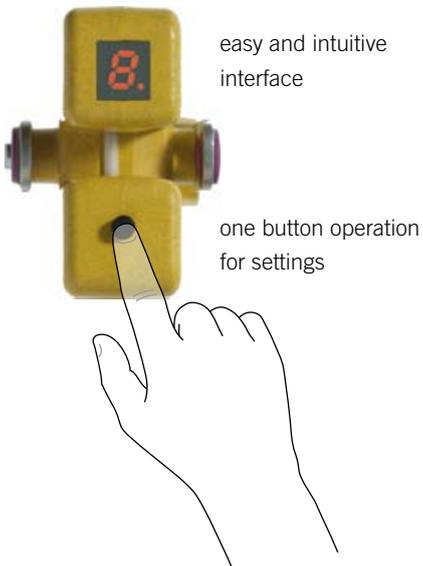
- detection of fluff, knots and filamentation
- easy, intuitive user interface
- one button operation
- settable sensitivity level (0-9) to match your end-product quality requirements
- automatic or manual setting of sensitivity
- processor controlled optical detection
- quick and easy installation and setup
- standard industrial connector
- PNP and NPN signal output
- evaluation electronics shielded against electrostatic or electronic magnetic interference
- only minimal yarn deflection is required
- other sensors can be omitted or replaced by FALCON-i

«Adaptive quality control»



MULTI-PURPOSE SOLUTION

User Interface



Easy Settings

0	lowest sensitivity
9	highest sensitivity
A	automatic sensitivity level
.	yarn runs (= sensor active)
F	yarn defect

Standard Machine Interface



PNP and NPN signal output



Loepfe

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