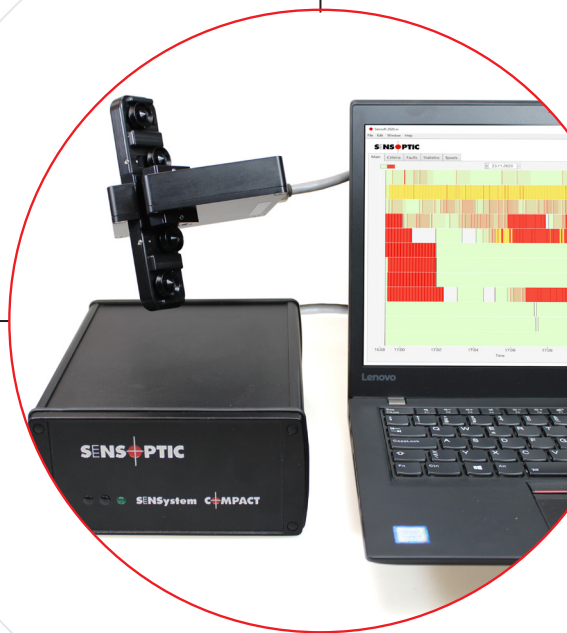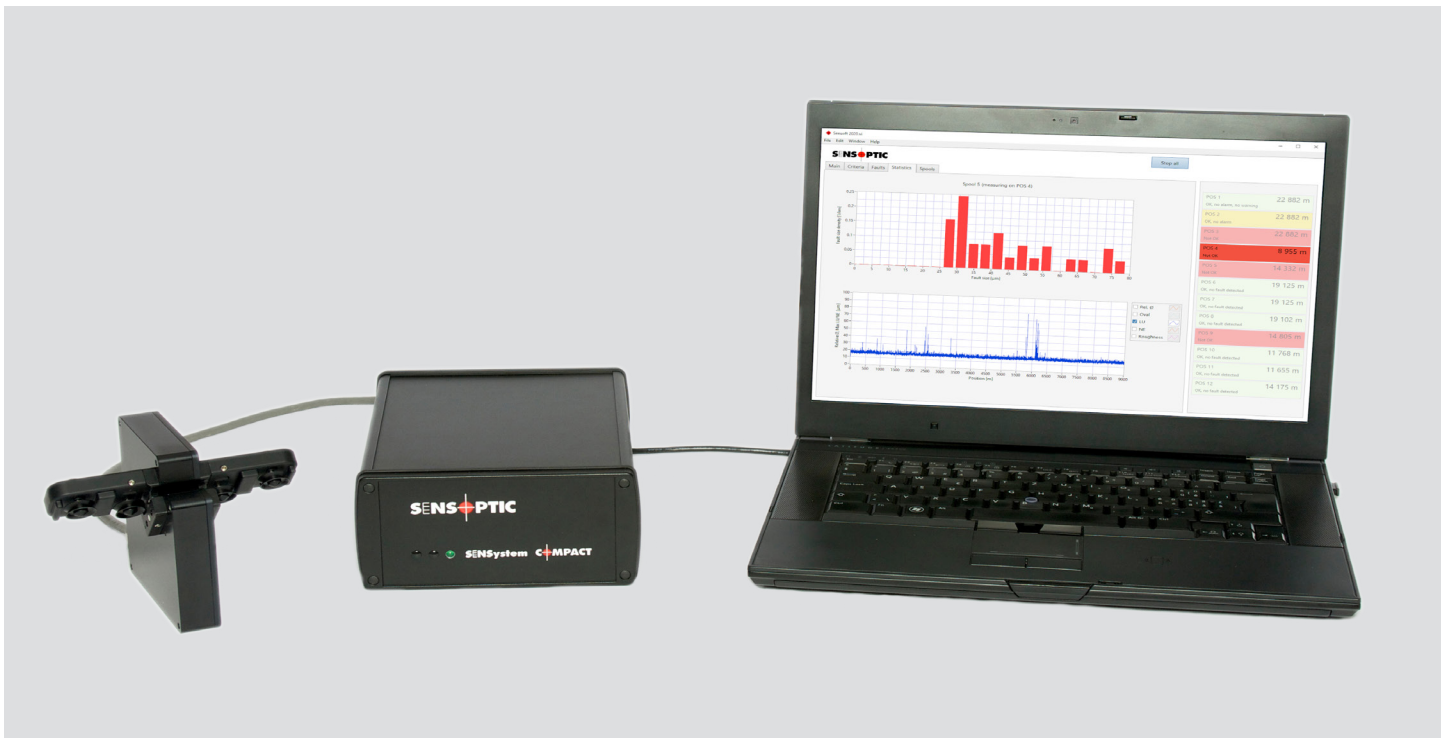# SENSOPTIC

SENSystem

Fault detection equipment for fine wires and filaments.

SENSystem

Are you ready to improve the quality of your products?

THE PERFECT FIT FOR ROUND AND FLAT TARGETS

Sensoptic is a Swiss company specialized in providing high-performance measuring systems for precision monitoring of small surface defects and short diameter imperfections in all kinds of wires and filaments in motion.

Our products are successfully used worldwide for automatic quality inspection in multiline production machines and in laboratory test stations, to improve manufactoring processes and certify the quality of spools.

Main features

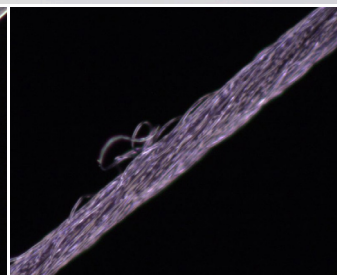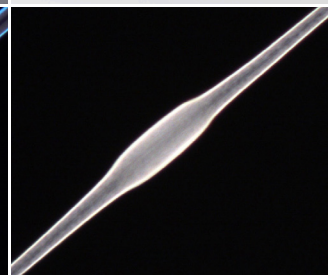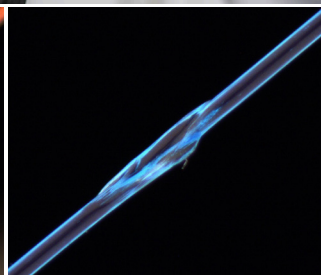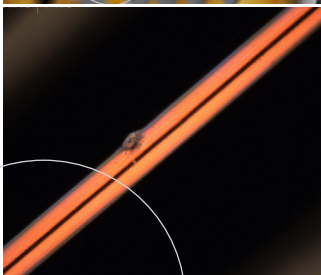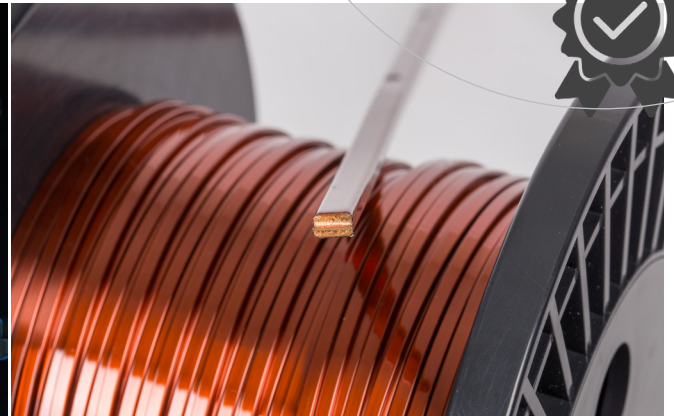| **High line speed** up to 2500 m/min | **Optical detection** 2µm resolution | **Real time monitoring** up to 32 lines | **Intelligent software** user-friendly operation | **Easy integration** into production machines |

Discover defects
before they reach the market!

What if you could collect data about faults during production in order to optimize your process? What if you could certify the quality of your spools 100% before delivery? **Now you can.**

It's all about automatic and objective quality certification vs. subjective time-consuming visual inspection under a microscope.

Round and flat targets
- bare and coated wires
- mono- and multifilaments
- medical sutures and tubing
- optical fibers and cables

Type of imperfections
- lumps, neck-downs
- blisters, bubbles
- coating dropouts
- scratches, contusions
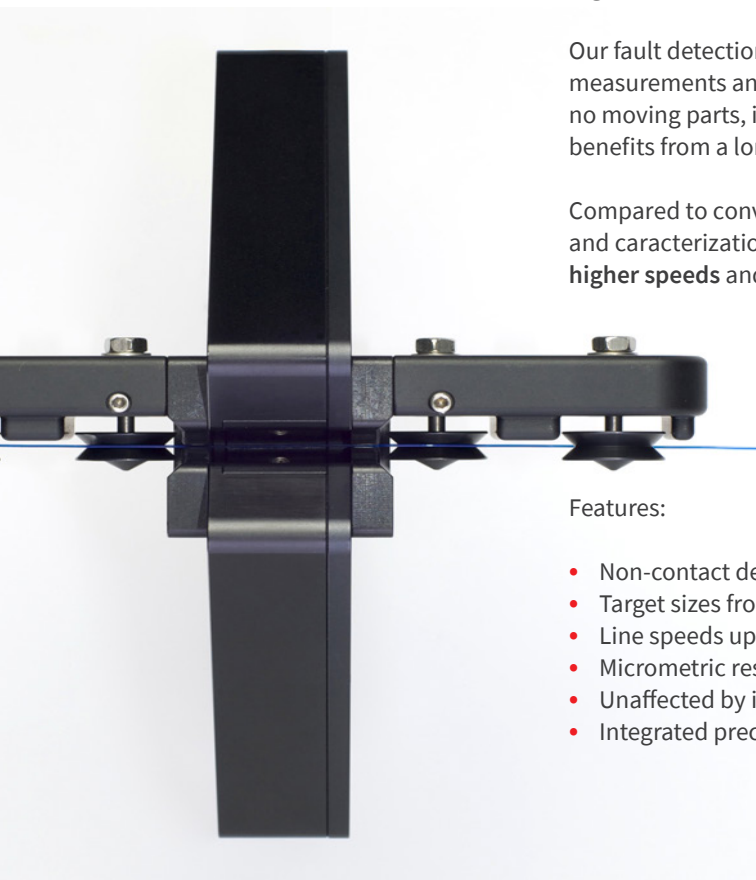
What does all **the magic**

Sensystem is composed of optical Profile Sensors for fault detection, electronic controllers for signal processing and computers with Sensoft software for data management.

PROFILE SENSORS

Precision instruments to detect punctual imperfections moving at high line speeds.

Our fault detection technology is based on light intensity shadow measurements and employs LED sources instead of lasers. Since it has no moving parts, it is more reliable, requires lower maintenance and benefits from a longer lifespan.

Compared to convential fault detectors, our sensors allow the detection and caracterization of **smaller defetcts** of wires and filaments running at **higher speeds** and with **superior precision**.

Features:

- Non-contact detection in 1 or 2 axes
- Target sizes from 0.01 mm to 5 mm
- Line speeds up to 2500 m/min
- Micrometric resolution of defects
- Unaffected by intense stray light
- Integrated precision roller guides

SENSOR PXL

SENSOR PSD

SENSOR PXS

SENSOR PSM

CONTROLLERS

Designed to run your automatic system smoothly

Advanced electronic units composed of hardware for data acquisition, input connections to communicate with Profile Sensors and output connections to personal computers.

Features:

- Ultra fast data aquisition
- Up to 32 single-axes sensors
- Integrated linear power supply
- Digital inputs and outputs
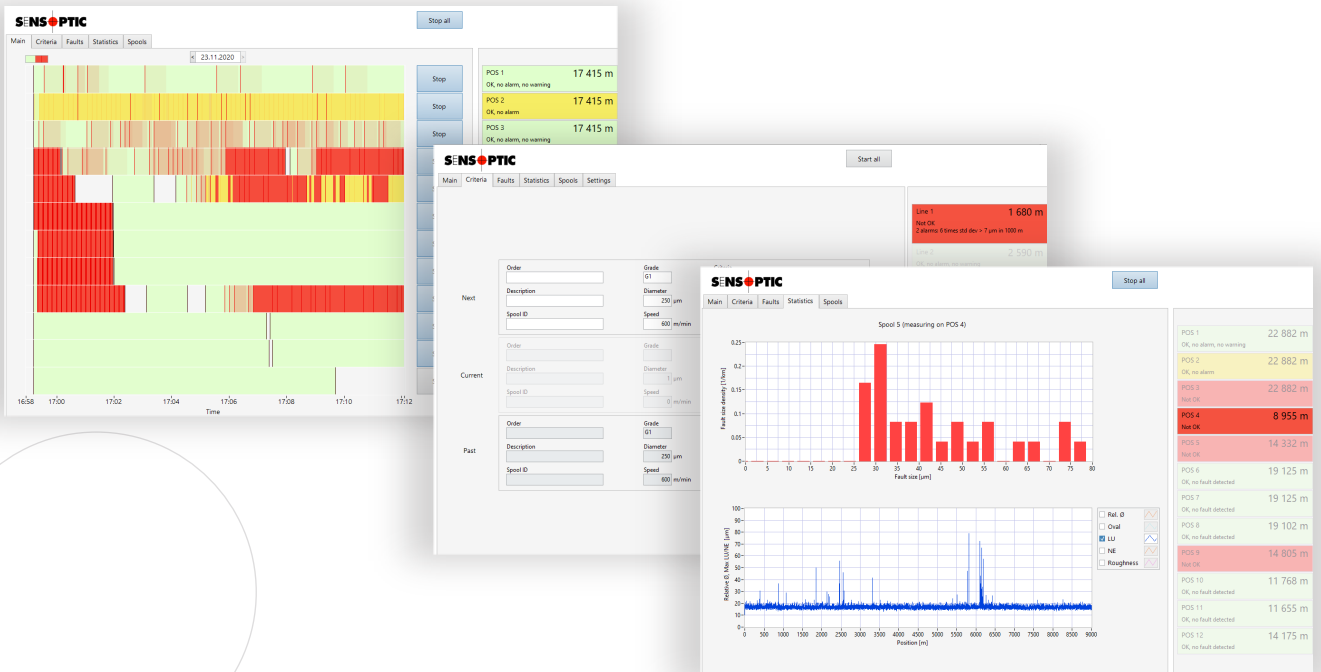- Output USB or PCI connection

Standard

Compact

Process

SENSOFT MULTILINE

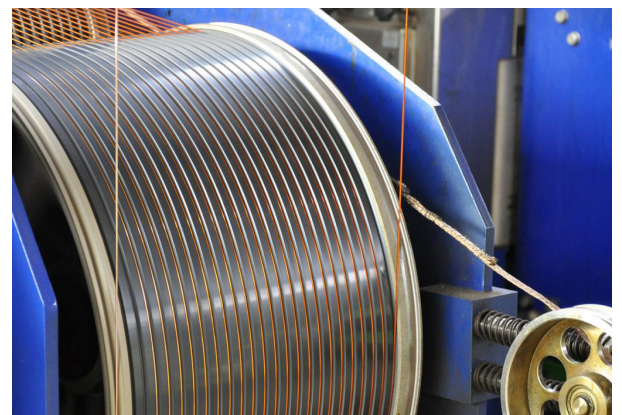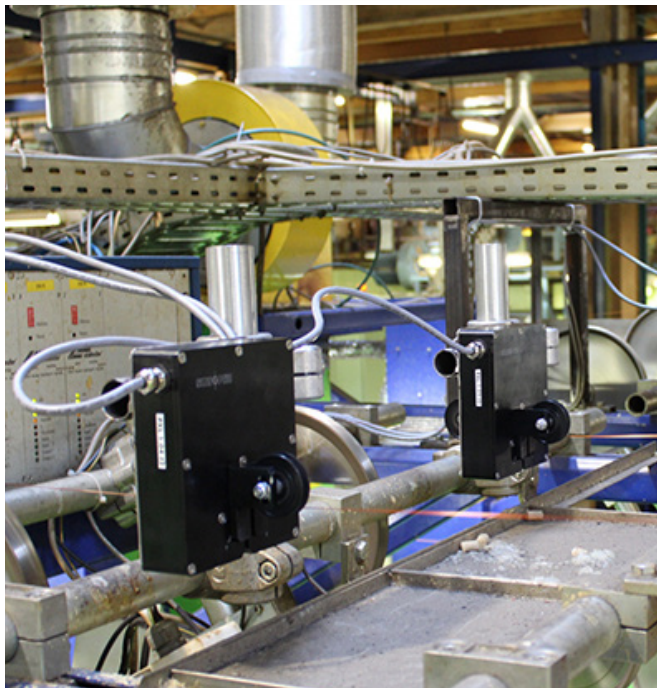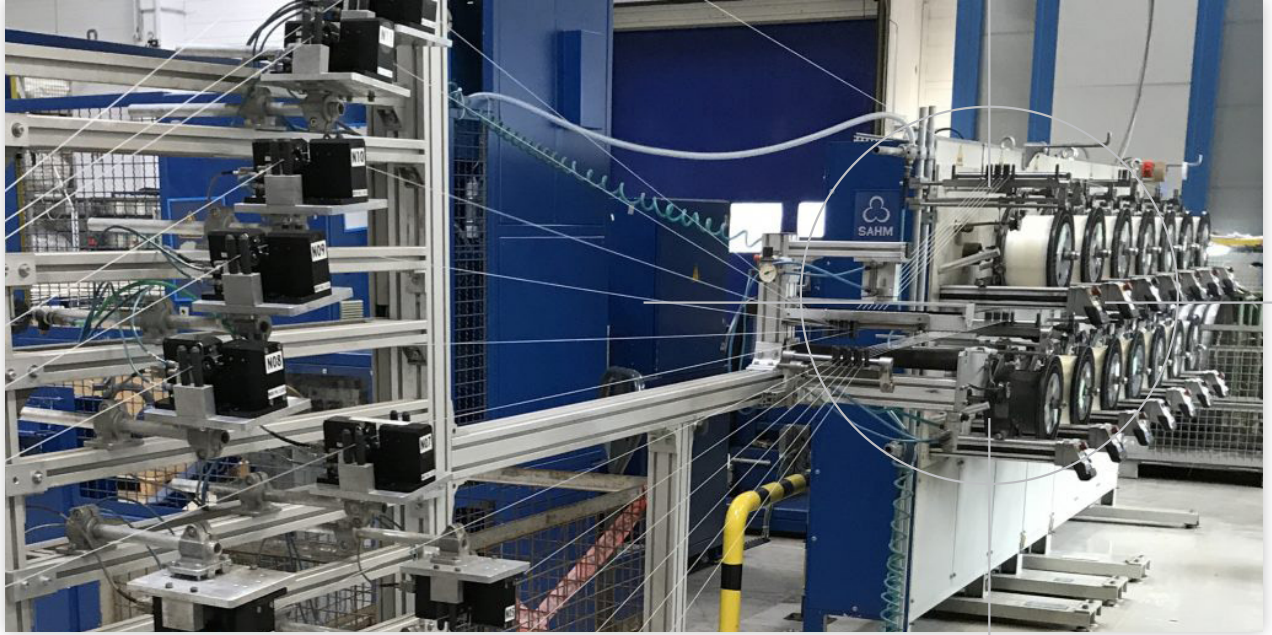**Intuitive software to manage the complete system**

Features:
- Ultra-fast data acquisition and real-time data visualization
- Intelligent detection of faults beyond specified threshold value
- Quantification of size and shape of all detected defects
- Automatic data recording and data saving for post-processing
- Elaboration of comprehensive statistics and quality certifications

What about fine-tuning your multiline production machinery?

We support our customers with the installation, process integration and operation of automatic turnkey systems tailored to specific requirements.

SENSOPTIC

Thanks to Sensystem you can now reduce costs by certifying and sorting out the quality of your spools before delivery!

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Link to video
Sensystem

SWISS MADE