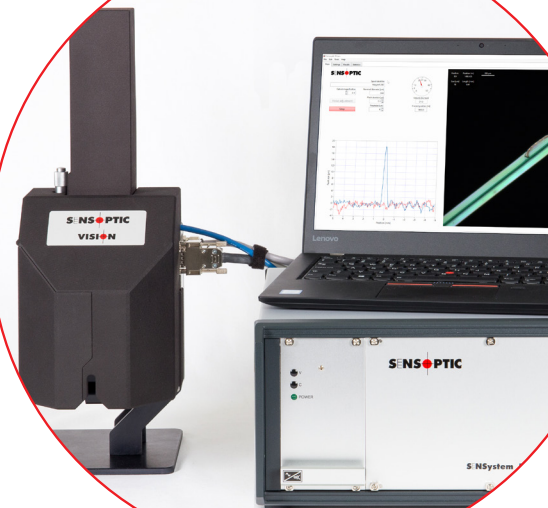
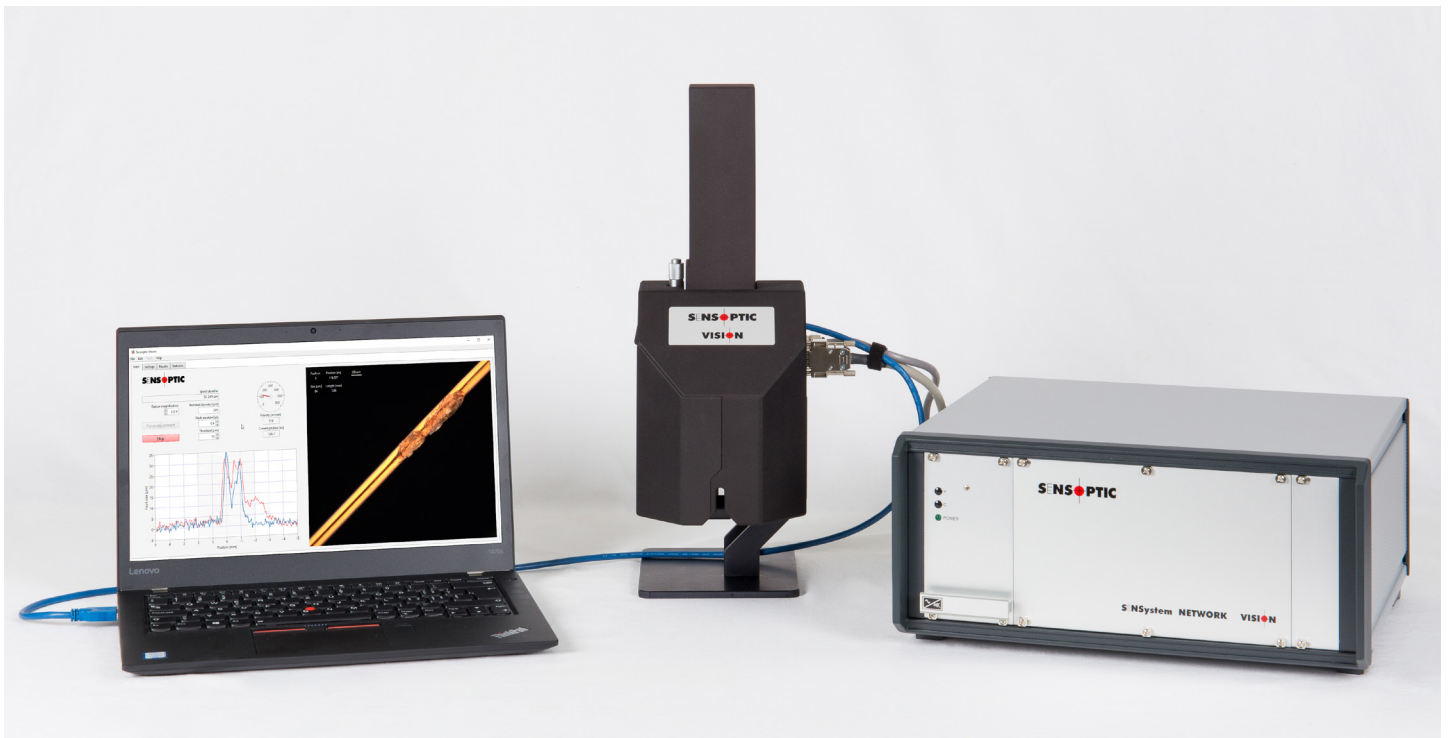


Sensoptic Vision

A picture is worth
a thousand words.





Sensoptic Vision

Are you ready to see the invisible?

THE GAME CHANGER IN THE WORLD OF WIRES AND FILAMENTS QUALITY CONTROL

Sensoptic Vision is the first system that captures instant photographs of small imperfections running at high line speeds, ideally suited for automatic quality inspection in production machines and in test winding stations.

Main features



High line speed
up to 1000 m/min



Quality image
5 megapixel sensor



Microscopic visualisation
10 μ m resolution



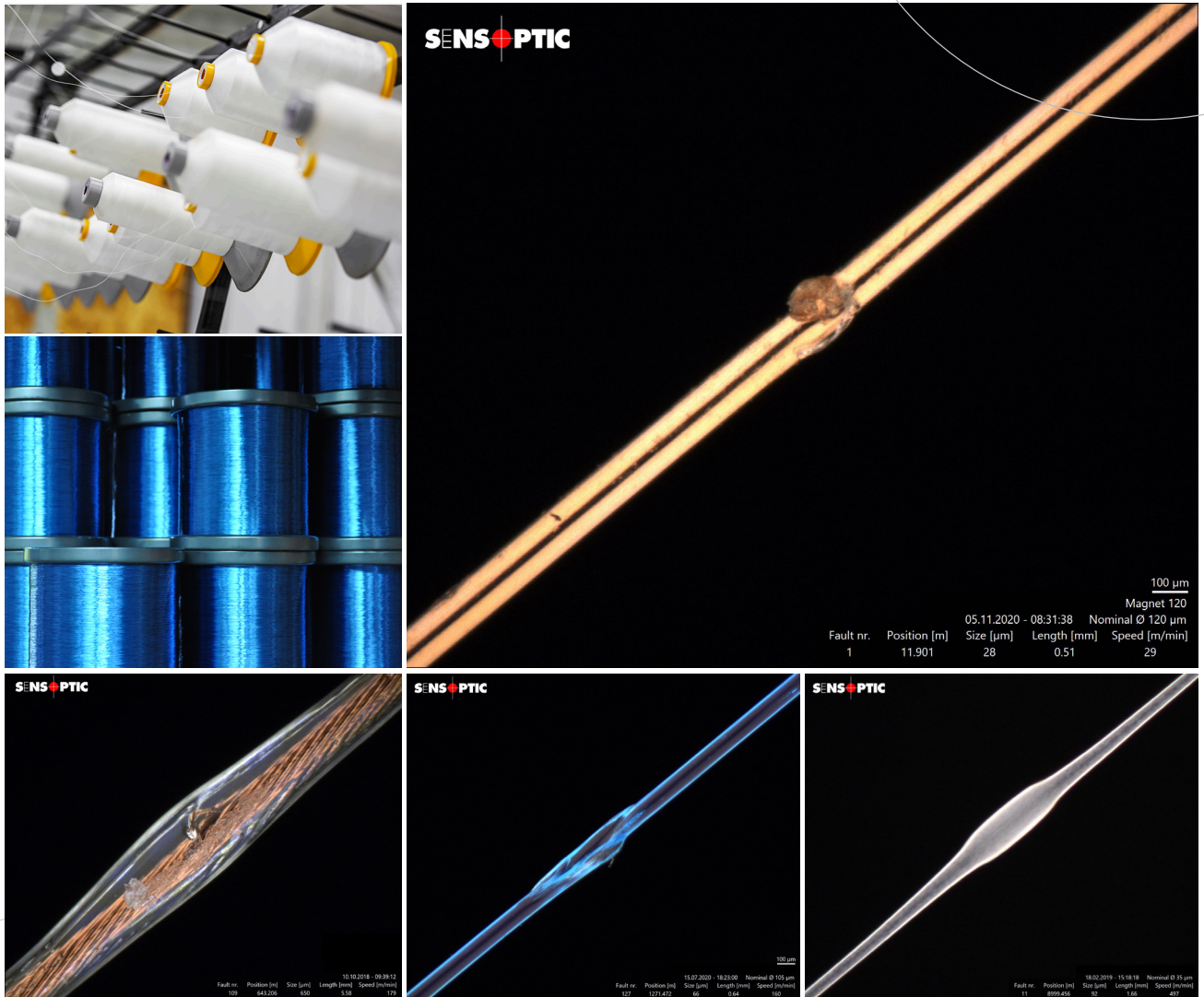
Intelligent software
user-friendly operation



Easy integration
in production machines

Automatic live pictures of defects in motion.

What if you could certify the quality of your spools 100%?
What if you could observe faults continuously during production in order to fine-tune your process? **Now you can.**



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

Sensoptic Vision is composed of an optical Profile Sensor PXL for fault detection, a camera unit with an ultra fast LED flash for image recording, a Network Controller unit for electronic signal processing and a computer with Sensoft Vision software.

PROFILE SENSOR PXL

Our 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.

Features:

- Non-contact detection in 2 planes
- For round and rectangular targets
- For targets sizes up to 5mm
- Line speeds up to 2500 m/min
- Micrometric resolution of defects
- Unaffected by intense stray light

PROFILE SENSOR PXL

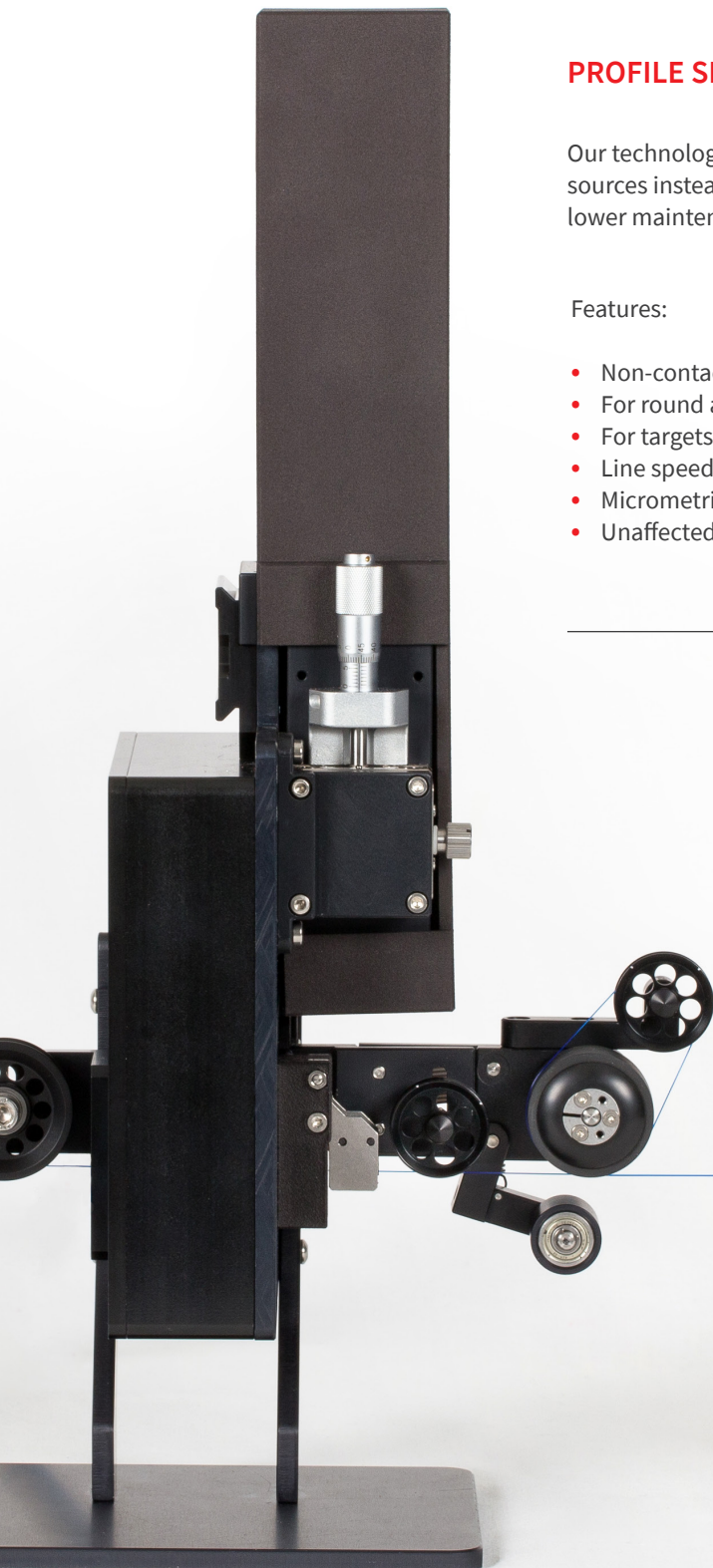


CAMERA UNIT

Ultrafast instrument to record high quality images of microscopic defects in one plane. With a dual-camera configuration, it is possible to record images of rectangular wires from two opposite directions, to observe all four sides.

Features:

- Instant photos at 1000 m/min
- 5 megapixel image resolution
- Ultrafast power LED flash
- Adjustable zoom magnification
- Precision roller guides setup
- Integrated line speed encoder



NETWORK CONTROLLER

Advanced electronic unit to control Sensoptic Vision system including hardware for data acquisition, input connection to communicate with a Profile Sensor, flash unit interface, encoder connection and Ethernet connection to a personal computer.

Features:

- Ultrafast data acquisition
- Reconfigurable FPGA
- Real-time processor
- Integrated linear power supply
- Digital inputs and outputs
- Output USB or PCI connection
- Ready for network integration

NETWORK CONTROLLER FOR
ONE OR TWO CAMERA UNITS

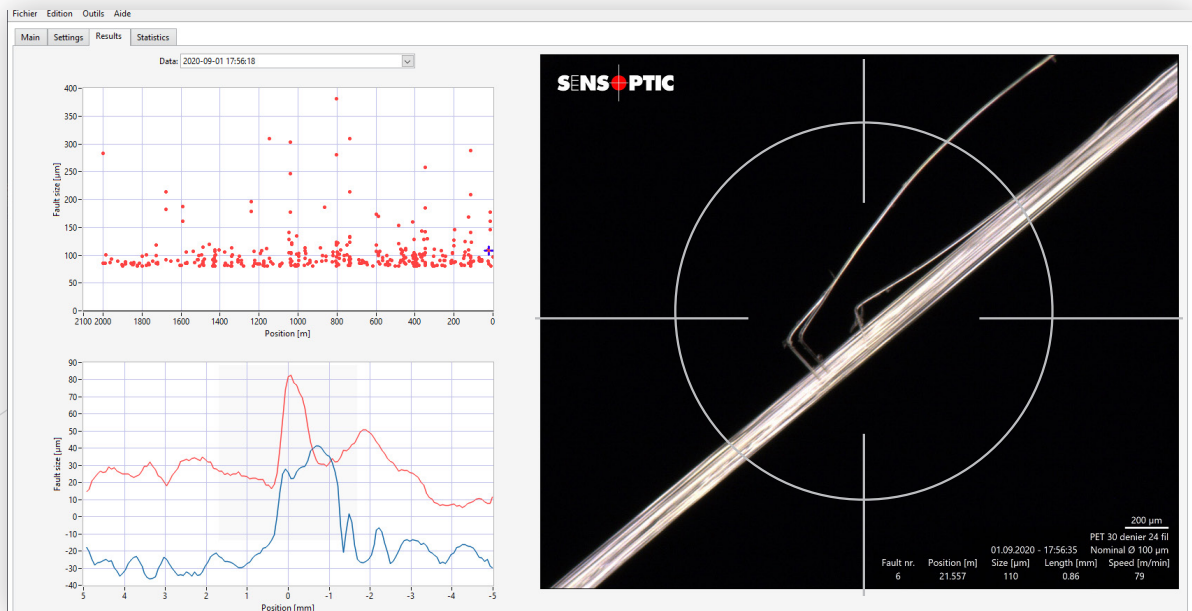


SENSOFT VISION

Intuitive software to manage the complete measuring system.

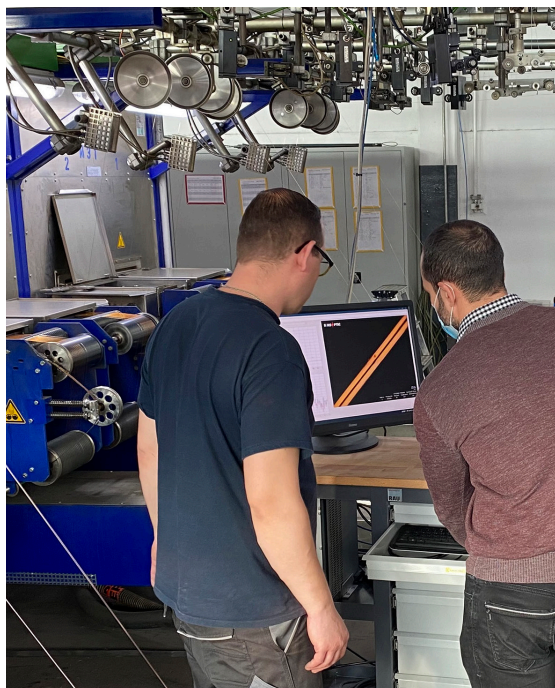
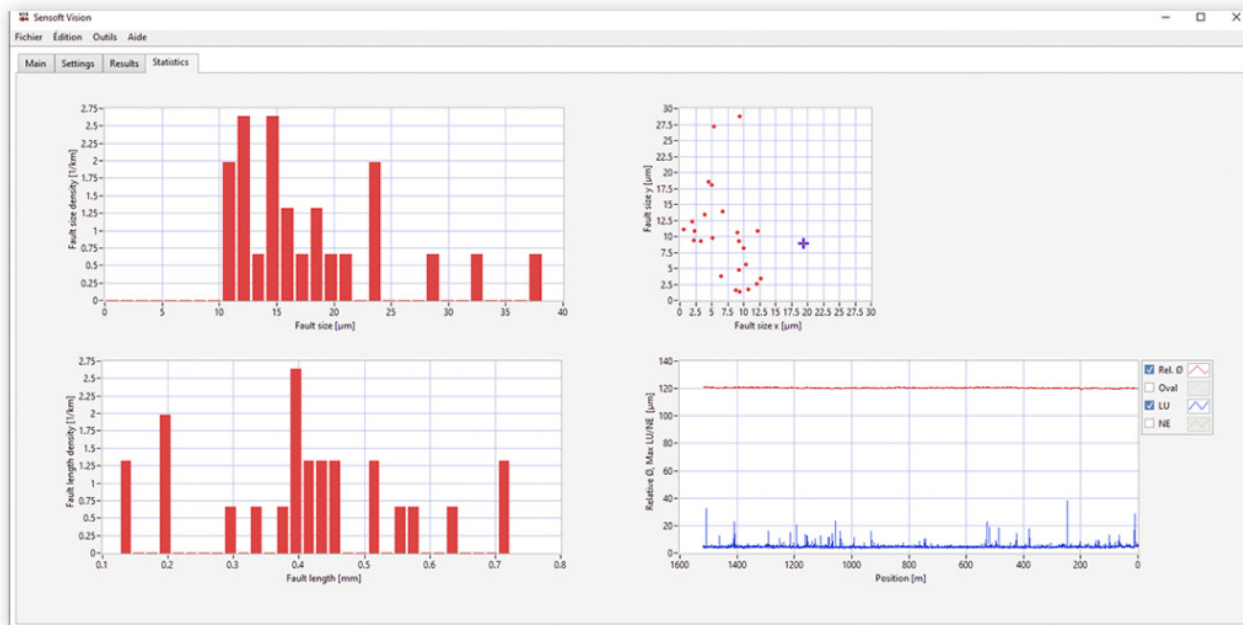
Features:

- Ultrafast data acquisition and data visualization software
- Intelligent detection of faults beyond specified threshold values
- Display of pictures and graphs of all detected defects
- Automatic data recording and data saving for post-processing
- Elaboration of comprehensive statistics of measured spools
- Reload options of past recorded results for spool comparison



Do you want to reduce costs by minimazing rejects?

Thanks to Sensoptic Vision, you can now certify the quality of all your spools before delivery!



SENSOPTIC



Do you want to improve your production yield?

Thanks to Sensoptic Vision, you can now adjust and optimize your manufacturing process in real time!

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Link to video
Sensoptic Vision

