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Monitoring Excellence.

Fibrevision Fraycam 2

The Fibrevision Fraycam has been well established for many years as the best method for providing image captures of broken filaments and slubs in high speed extrusion processes.
The Fraycam 2 is the new generation system which replaces the bulky and expensive existing Fraycam system and can be used as a stand-alone system or integrated with the existing Fraytec FV2 system.

The Fraycam 2 system

- is a self-contained system comprising a high speed camera unit, power supply and laptop PC.
- is compact, measuring only 145 × 142 × 49 mm, making it easy to mount in the threadline.
- is durable to use in an industrial environment, being fully shrouded.
- integrated guides provide for easy threading but also allow easy movement between threadlines.
- operates via Power over Ethernet.

Applications

The Fraycam 2 is designed for use in both R+D and production applications.

R+D

Fraycam 2 capture of fault images provides invaluable insight in to the key aspects of both process and machinery during the development phase, allowing more informed decisions, reducing costs and improving effectiveness.

Production

Fraycam 2 image capture provides invaluable diagnostics data when problems are encountered, resulting in quicker identify and resolution of problems.


Features and benefits

→ **The Fraytec FV2 sensor identifies all broken filament faults**
Each event is detected, the camera is triggered to take an instantaneous needle sharp image, which is displayed on the laptop and is saved automatically together with relevant data.

→ **Provides reliable detection of individual broken filaments**
Down to 5 µm diameter at speeds up to 8 000 m/min.

→ **Both individual broken filaments and larger "slub" events are captured, allowing detailed analysis of faults.**
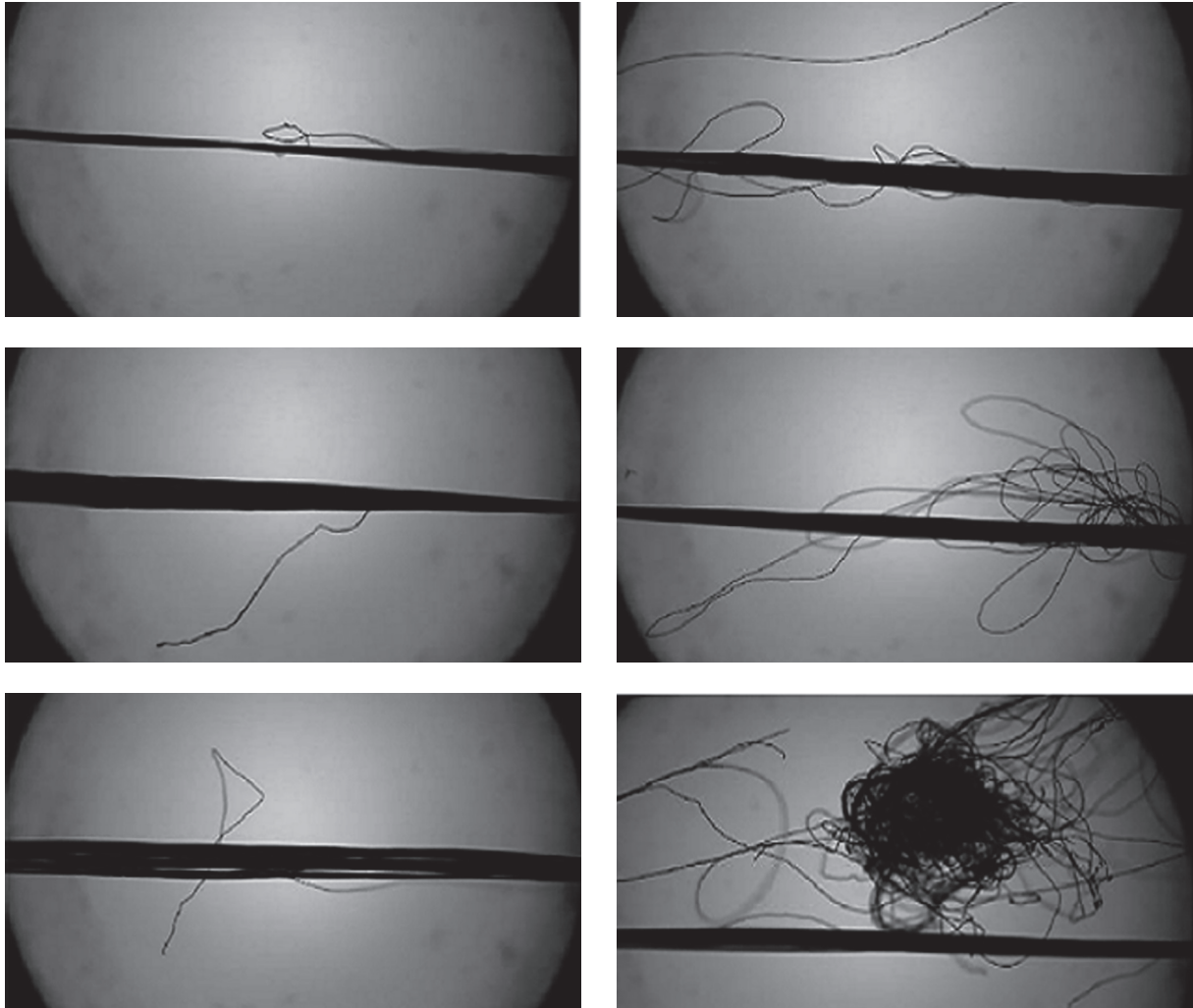
Examples of captured Images

Technical data

Fraytec sensor
– Detects broken filaments down to 5 µm diameter at speeds up to 8 000 m/min.
– The detection is identical to the Fraytec FV2 sensor, but in addition to counting and analysing the filament break it triggers the camera.

Camera
– The high quality camera takes up to 75 frames per second (1280 × 1024 pixels) in black & white.
– With µs timing the highspeed flash adds backlight to the photograph making the system independent of colour.