

## External Film Surface Analyser (FSA100EXT)

The OCS External Film Surface Analyser (FSA100EXT) is an optoelectronic inspection system for polymer films. It has been specially designed for implementation in OCS external (laboratory) extrusion lines. The considerable advantage of the FSA100EXT is the customised frame with state-of-the-art camera technology, which fits perfectly into the overall design of the existing line.

The advanced V2 camera technology consists of a high-resolution dual-line CMOS camera and a user-specific high-performance LED. This combination enables optimal defect detection in transparent, opaque and coloured polymer films. In the FSA100 software, the measurement results are analysed according to customer-specific specifications and the defects are classified, which provides information about the film quality.

### Testable Materials

- Polymer films

### Features

- Tailor-made frame for simple and quick adaptation to customer-specific requirements
- Space-saving unit through the use of flat cables
- Customer-specific lighting technology such as MCE (Multi Channel Evaluation)
- Real-time error analysis with customer-specific presentation of results
- Transparency measurement
- One-time calibration according to customer specifications by OCS

### Compatible with

### Sales Team



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- All OCS external (laboratory) extrusion lines

### Technical Details

<b>Inspection width</b>	175 mm
<b>Camera</b>	Dual-Line CMOS camera (black white)
<b>Resolution</b>	20 µm, 25 µm or 50 µm standard resolution
<b>Lighting</b>	LED
<b>Communication protocol</b>	MODBUS (RTU, TCP/IP), PROFIBUS, PROFINET, OPC (Server/Client), CSV file, customer-specific

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### Blown Film Line

The OCS Blown Film Line is used to carry out optical and physical property measurements of polymers in the production of high-quality blown films (blowing, cooling, laying flat, haul-off and winding). All parameters of the line, e.g. extruder speed, temperature, haul-off speed, film width, film bubble ratio, are stored by a touch panel control system, which ensures that the film quality is reproducible at any time. This is an important parameter for optical and physical on-/offline measurements, for use with gels, impurities, fibres and other contaminants, as well as for turbidity, transmission, gloss, density and additive measurements. Possible testable ... [read more on our Website]



### Cast Film Line

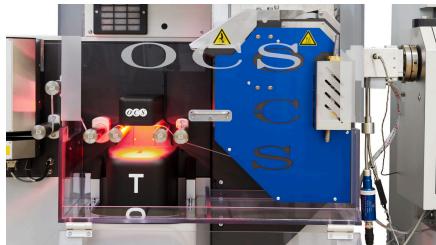
The OCS Cast Film Line is used to perform optical and physical property measurements of polymers in the production of high-quality cast (flat) films (extrusion, cooling, stripping and winding). All settings and parameters, e.g. extruder speed, temperature, film tension, winding force, winder diameter, are stored by a touch panel control system which guarantees that the film quality can be reproduced at any time. This is an important parameter for optical and physical on-/offline measurements, for example in detecting gels, contaminations, degradations and other impurities as well as haze, gloss, density and additive measurement. Possible testable polymers include, for example, ... [read more on our Website]



### Modular Film Analyser (MFA)

The OCS Modular Film Analyser (MFA) is used for the continuous cooling, stripping and winding of extruded polymer film. In combination with a variety of different measuring instruments, a wide range of applications for the analysis of different sample materials is covered. In addition to the Film Surface Analyser (FSA100V2/FSA200V2) for optical quality control of the polymer film, online spectroscopy, the measurement of haze and transmission as well as gloss and thickness can be integrated. This allows the combination of a tailor-made and yet economical solution. [vc\_column width="1/2"] Features Modular architecture for customer-specific configuration with different measurement devices

Homogeneous, ... [read more on our Website]



### Tape Quality Analyser (TQA100)

The OCS Tape Quality Analyser (TQA100) is used for testing transparent materials (tape) in the wire and cable industry. The high-resolution camera system with a resolution of up to 5 µm and OCS-developed LED illumination with MCE technology (Multi Channel Evaluation) detects impurities such as black specks, fibres and metal particles. With the use of the MCE technology, the system can be adapted to customer-specific requirements and thus further optimise the quality of contamination detection. In the TQA100 software, the measurement results are analysed according to customer-specific presentation of results and defects are classified. All relevant measurement results ... [read more on our Website]



### X-Ray Tape Analyser (XTA100)

The OCS X-ray Tape Analyser (XTA100) is an X-ray-based inspection system for polymer films. It was specially developed for the cable and wire industry and enables the specific detection of metal particles. The film is inspected using a high-resolution X-ray camera system. The measurement results are analysed by the XTA100 software according to customer-specific requirements, and defects are classified. All relevant measurement results are clearly displayed and can be exported to all common file formats. The XTA100 can be combined with other OCS film inspection systems, such as the TQA100. This combination provides additional measurement results that allow an ... [read more on our Website]



### Surface Quality Analyser (SQA100)

The OCS Surface Quality Analyser (SQA100) is specially designed to detect irregularities on the surface (pips) of polymer films (tape) in the wire and cable industry. The high-resolution CMOS camera system measures the height of the pips with a resolution of 1 µm using a special measuring method. Additionally, the base diameter and the diameter at half the height of the pips are measured with a resolution of 10 µm. The SQA100 software allows the user to define height and diameter classes and classify the measured pips accordingly. All relevant measurement results are clearly displayed and can be exported ... [read more on our Website]

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