



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 to all common file formats.

Testable Materials

- Non-transparent polymer films (tape)

Features

- High-resolution CMOS camera system
- LED lighting
- Real-time error analysis with customer-specific presentation of results

Compatible with

- OCS Tape Line (SSA)

Sales Team



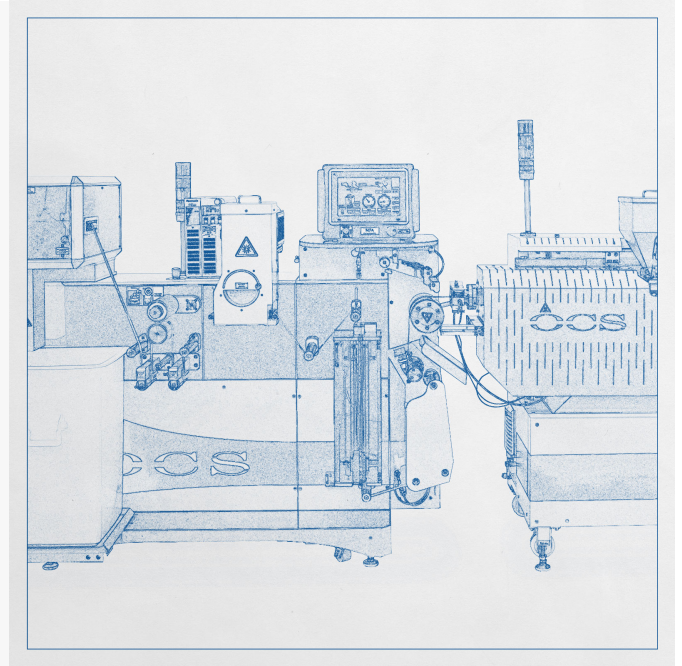
T +49 2302 95622-0
F +49 2302 95622-33
info@ocsgmbh.com
www.ocsgmbh.com

Address

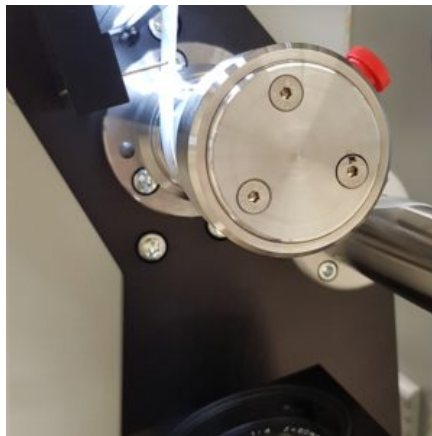
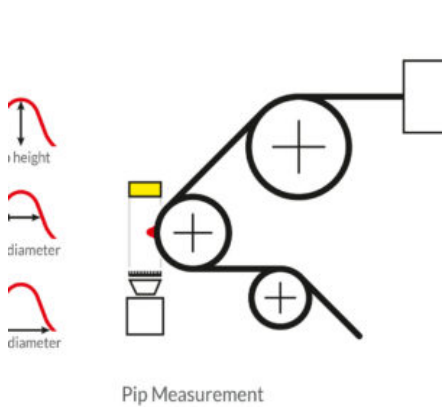
OCS Optical Control Systems GmbH
Wullener Feld 24
58454 Witten
Germany

Technical Details

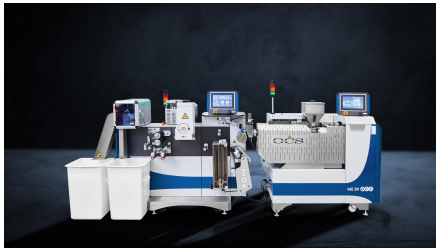
Camera	CMOS camera
Resolution	1 μm for measuring the height of the pips 10 μm resolution for measuring the base diameter and the diameter at half height
Lighting	LED
Communication protocol	MODBUS (RTU, TCP/IP), PROFIBUS, PROFINET, OPC (Server/Client), CSV file, customer-specific



More Product Pictures



Similar Products



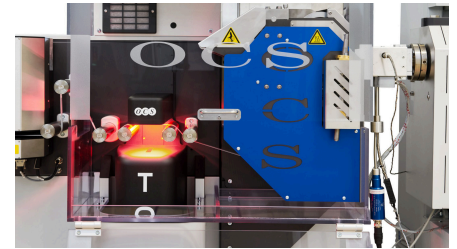
Tape Line (SSA®)

The OCS Tape Line type SSA® is used specifically to detect surface irregularities (pips) on non-transparent polymer films (tape) in the wire and cable industry. The SSA® Line consists of a Measuring Extruder (ME) and a Modular Film Analyser with a Chill Roll (MFA-CR). During the measurement of the surfaces, the extruded polymer film (tape) passes over a chill roll, which leads the tape to the Surface Quality Analyser (SQA). This high-resolution CMOS camera system uses a specially developed measuring roll to measure the height of the surface defects (so-called pips or agglomerates) with a resolution of 1 µm. ... [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, yet ... [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 are ... [read more on our Website]

Images, drawings and data are non-binding and subject to modification without prior notice. © 2026. All rights reserved - OCS Optical Control Systems GmbH | Wullener Feld 24 | 58454 Witten, Germany