Optical Control Systems



Measuring Extruder (ME20/ME25/ME30/ME40/ME45)

The OCS Measuring Extruder (ME) is used for the production of polymer films for laboratory and small series production. The extruder is equipped with a flat film die and, if necessary, a downstream OCS Modular Film Analyser to enable further quality measurements. The system is controlled via a touch panel to set up device parameters and recipes. In addition, the optional Remote Control Function allows the Measuring Extruder (ME) to be displayed and controlled from various locations. Another feature is the automatic turning system, which allows easy cleaning of the extruder barrel, die and screw. The extruder then automatically returns to its exact setting position to simulate the same condition as during production.

Features

- High-quality laboratory design with plasticising unit in stainless steel
- Robust, precise drive technology
- Operation via touch panel with data trending as well as optical and acoustic alarm functions
- Temperature zone control through self-optimising PID controllers
- Simple data and recipe processing

Compatible with

- OCS Cast Film Line
- OCS Blown Film Line
- OCS Tape Line
- OCS Modular Film Analyser (MFA)
- OCS Pelletising System

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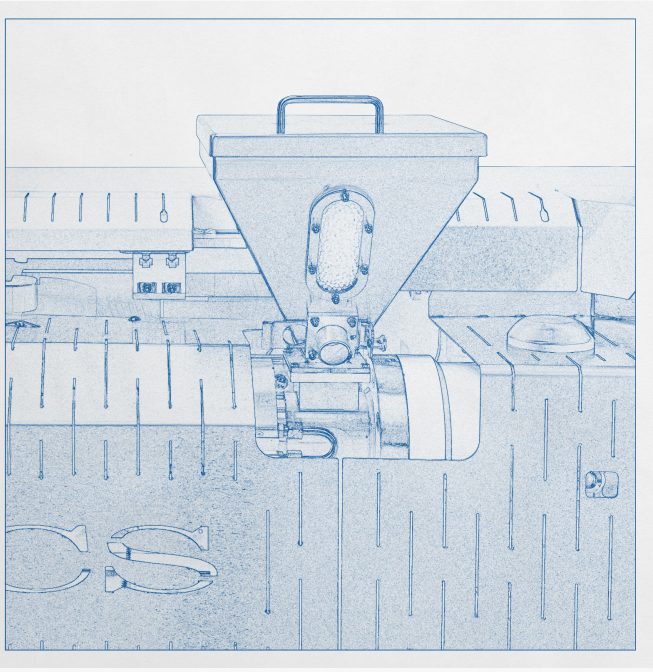
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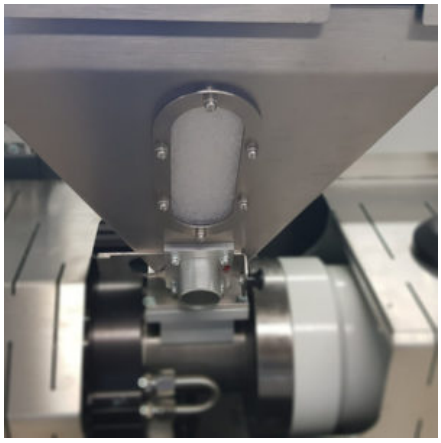
- OCS Pellet Transport System (PTS)

Technical Details

Drive technology / speed range	0.2–150 rpm
Screw diameter	20, 25, 30, 40 or 45 mm
Temperature zones	0–350 °C (further on request)
Communication protocol	MODBUS (RTU, TCP/IP), PROFIBUS, PROFINET, OPC (Server/Client), CSV file, customer-specific

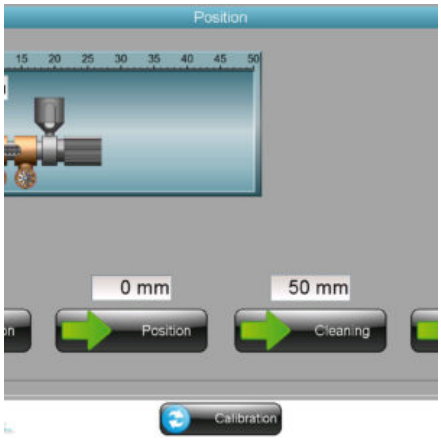


More Product Pictures

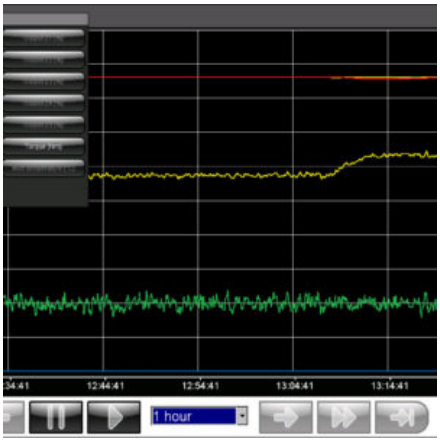




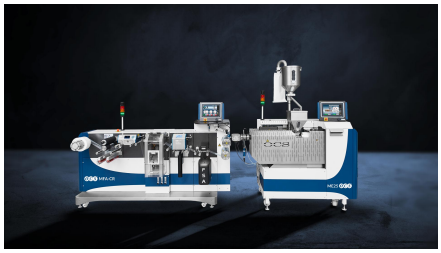






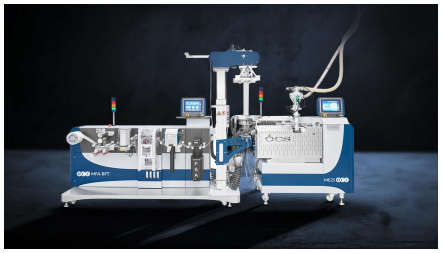


Similar Products



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



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 polymers ... [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 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]



Tape Line (TCA®)

The OCS Tape Line Type TCA® is used for testing transparent polymer films (tape). It consists of the OCS Measuring Extruder (ME) and the OCS Modular Film Analyser with Calender (MFA-Calender). Our calendaring system has been specially developed for the wire and cable industry. It presses and cools the extruded polymer film (tape) from both sides, thus ensuring a smooth and consistent surface thickness for optical anlysis. The Tape Quality Analyser (TQA100) contains a high-resolution camera system that detects contaminants, gels, black specks, fibres and metal particles. The detected errors are marked by the LASER Marking System (LM100) or the ... [read more on our Website]



Filter Pressure Test (FPT)

The OCS Filter Pressure Test (FPT) determines the Filter Pressure Value (FPV), i.e. the pressure rise measured over time upstream of the screen filter as an indication of the melt purity or dispersibility of added colour pigments. The OCS Measuring Extruder (ME) melts and homogenises the test material, which is then delivered to the filter via a melt pump at a defined and constant volume flow. The increasing pressure of the polymer melt is displayed, continuously recorded and finally evaluated. [vc_column width="1/2"] Testable Raw Materials Pellets [vc_column width="1/2"] Features Pressure and melting temperature measurement Simple sieve change Data recording and ... [read

more on our Website]



Pelletiser System

The OCS Pelletiser System is used for product development and testing, process simulation and for the small-scale production of polymers with modified quality characteristics. A special feature of the pelletising system is the variable adjustment possibilities for the different compression ratios and mixing zones. Extrusion, cooling, drying and pelletising are combined in one OCS system to enable constant and continuous pelletising. For this purpose, the material mixture is first fed into the OCS Measuring Extruder (ME) via the feed hopper, producing the required strand. This strand is finally cooled in a water bath, dried by means of a compressed air ... [read more on our Website]

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