Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

We hope the information you are seeking is contained within this file. If you have any questions, or require further information please contact us. We look forward to being of further service.

Regards from the Team at Rheology Solutions.

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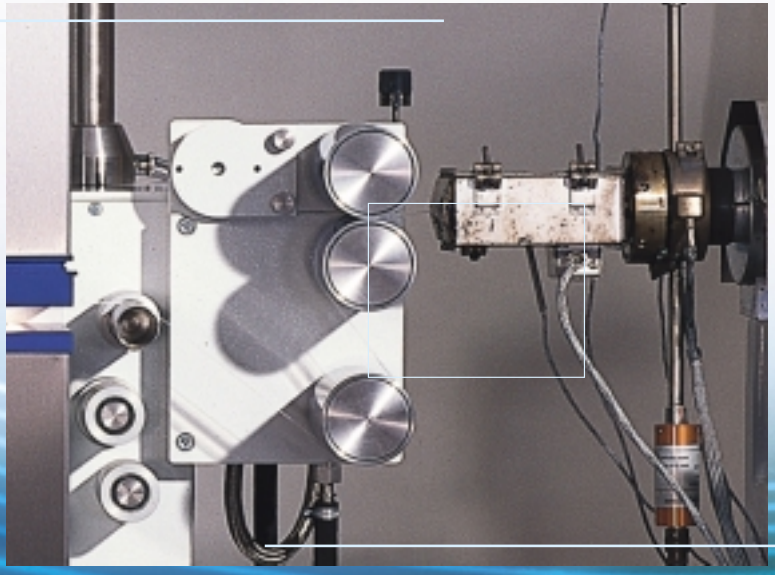
OCS Optical Control Systems

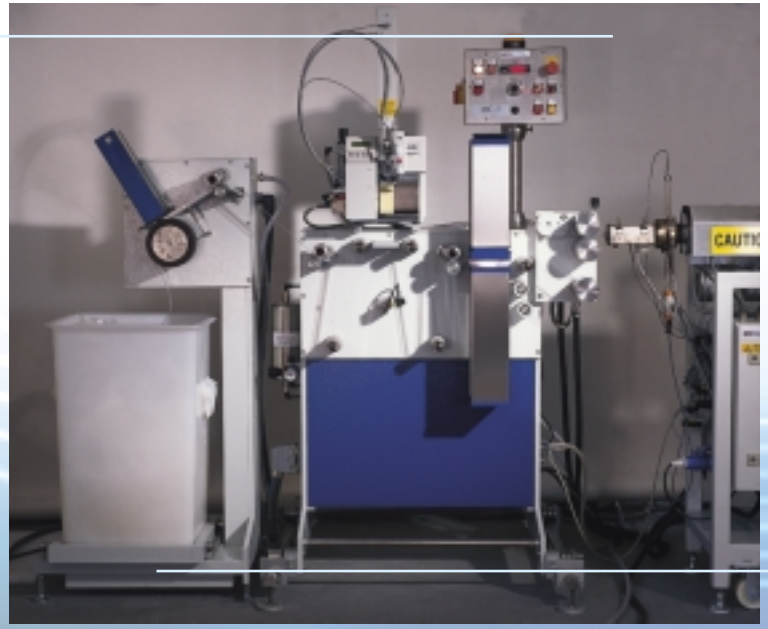
Mini Calender MC-5 for highest demands in optical online quality control

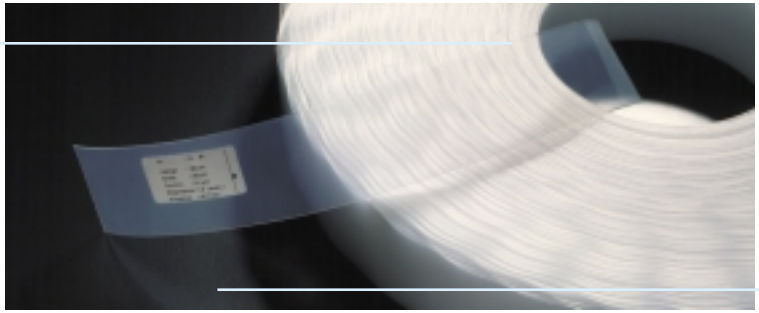


A system for quality and efficiency

The Mini Calender MC-5 from OCS is used to produce tape for optical quality control in laboratories and on-line production monitoring. This „tape test“ for raw material is currently applied world-wide in, for example, the cable industry (high and middle voltage applications) as a stan-dard procedure for quality control. The overall testing system consists of the Measuring Extruder ME 20/26, the Mini Calender MC-5, the Film Inspection System FS-5, a marking unit and a cutting / sorting device.
The Mini Calender MC-5 is equipped with three tempered cooling rollers, the distances of which can be varied. This enables various tape thicknesses to be produced.

After extrusion the tape is 100% inspected by the FS-5 film inspection system and examined for irregularities such as fisheyes, gels, fibers, black specks etc. with a size of 5 µm and more. Defects are recorded and measured according to size, shape, volume, type etc. The defect records are individually stored on hard disc for later and more detailed analyses and evaluations. A variety of statistical evaluation and calculation procedures are available for this purpose. The live picture during measurement also provides a large amount of information, as this is when defects on the film are marked and indicated.





The marking device is controlled by the inspection system and prints a label on to the film exactly where the defect has been detected. The label displays detailed data on the defect. The cutting device is installed downstream from the marking unit.
The cutting device cuts the tape into small sections. The sorting unit is downstream from the cutting device. Here the defect-free tape sections are sorted into one container and film sections with a label or a defect into another.
Sorting the tape sections into different containers makes the immediate recording of foil sections with defects possible. The film sections can then be examined, e.g. under an X-ray microscope, to determine the exact source of the defect in the production process.
The Mini Calender MC-5 meets the highest requirements of quality control in polymer production and processing.

Products

Cast/blown film
Narrow/wide film
Transparent/opaque sheets, calendered film etc.

Benefits

- Improvement of quality (elimination of non-standard product)
- Labour savings
- Accurate and consistent automatic grading
- Reduction of customer returns and complaints
- Increased line speed and process throughput where manual inspection is a limiting factor
- Reduction of scheduled maintenance stops (e.g. for roll cleaning)
- Reduced slitter scrap (for extruded, calendered and rolled products)
- Fast return on investment (ROI)

Perfect for online and laboratory applications.