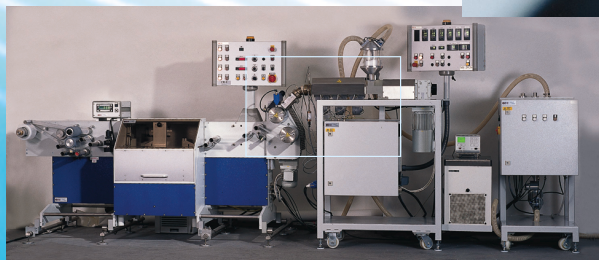
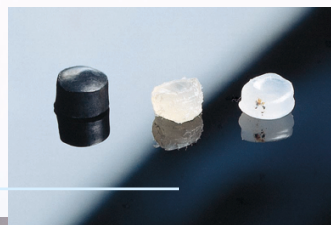


OCS - Optical Control Systems GmbH

As one of the world's leading manufacturers of optical quality control systems, OCS supplies customised and complete solutions in the fields of digital image processing, optical measurement and automation. Our systems ensure maximum product quality control. With the aid of precision cameras in conjunction with high performance online image processing, even the smallest defects in polymer products are detected, located and analysed in detail. The applications for OCS systems range from laboratory use to complete integration into the production process.

Leading manufacturers in the petrochemicals and polymer industries benefit from these features. In Europe and the USA, Canada, South America and Asia: everywhere in the world, our system solutions are successfully in service. With a highly expert and innovative team of development and production engineers, OCS supplies top level technology and know-how worldwide – always at the leading edge with our systematic research and development work. Our manufacturing processes, delivery, installation and user training are also state of the art. Service to our clients is our paramount aim: in no time we will repair damaged systems worldwide – guaranteed.



Stretch-Roll and Winder System CRS-6



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Application

The Stretch-Roll and Winder System CRS-6 was developed to aid in the quality control of polymers which need to be stretched before optical analysis can be performed.

An example of this would be the contamination count in PET material. The optical inspection of the extruded cast film stretched with the CRS-6 is an easy and consistent method of quality control of this raw material.

Materials which are difficult to extrude can also be processed into a qualitatively and optically high-standard film using this unit. The highly polished chill rolls and a specially developed air knife are responsible for this. The chill rolls are double walled. A very narrow opening leads to high fluid speeds, and therefore to very even temperature distribution on the surface of the roll.



Components

The chill roll unit consists of two separate chill roll groups, each with three rolls. Both groups have separate servo-drives which are electronically linked. The temperature of the rolls can be individually set.

Mode of Operation

Usually, the first two rolls are used for cooling, the third for heating, and the last group again for cooling. After heating, the film is stretched. The degree to which this occurs is freely variable between 0 % and 300 %. The film is then hauled off, either at a constant speed or tension, and wound at an adjustable force.

Features

Any extruder with a cast die of 50 mm to 150 mm can be used. Space has been reserved for the Film-Analysis-System FS-5. The unit can be equipped with a remote diagnostic system, which would allow access to all the system's parameters via a modem.

