

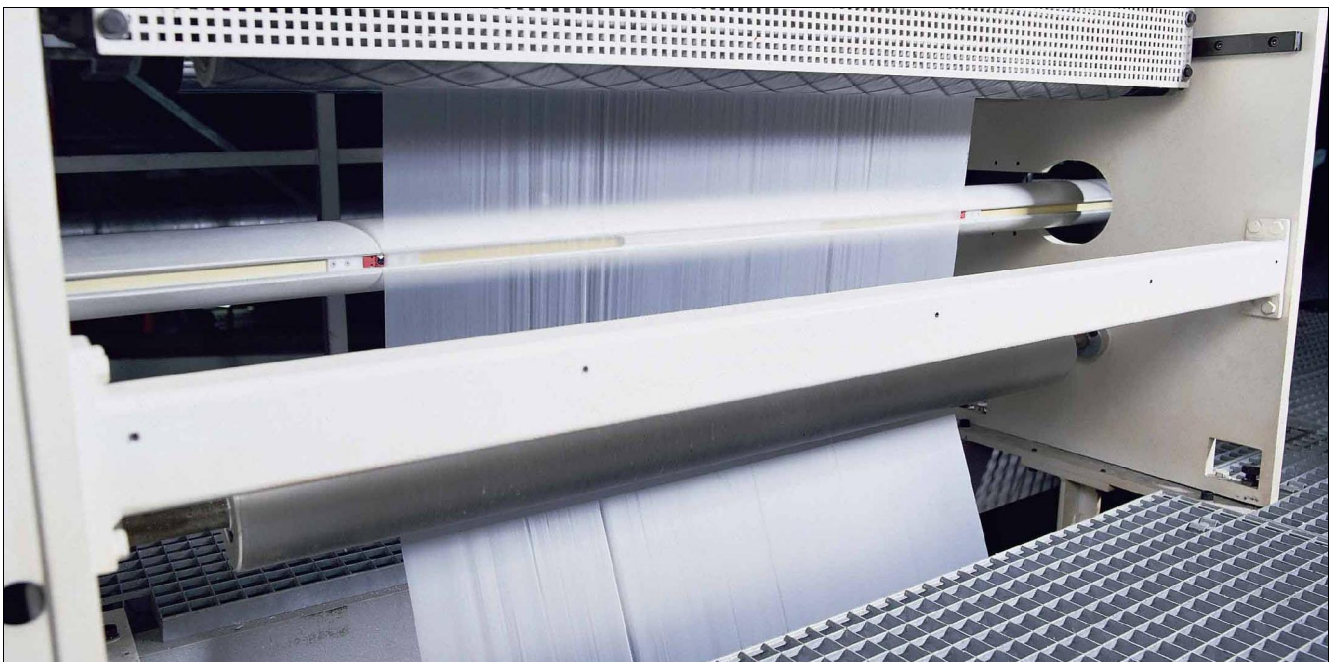
Lay-flat width control with sensor LMS for film without gussets

Optimum for blown film lines

ScenEx LL is a well-proven stand-alone system specially designed for the measurement and control of lay-flat width on blown film lines. Sophisticated, accurate, reliable and yet economic, with these features all the demands on a modern measurement and control system are fully met.

The lay-flat width is accurately measured by the LMS measurement unit.

For maintaining the required width, either the calibration basket or the air volume of the bubble are automatically adjusted. An additional alarm is available if the selected width tolerance range is exceeded.



Function description

The lay-flat film passes across the LMS measuring beam. Driven by stepper motors, two infrared sensors continuously follow the two outside edges of the film registering their position.

By counting the steps of the motors, the process computer calculates the distance between the edges, which represents the total lay-flat width of the film.



Infrared sensor at the film edge

Quality

- Maintains set film widths
- Ensures consistent product quality
- Maintains chosen tolerance range at minimum level
- Reduces customer complaints

Advantages

- Reduces waste during start-up and job changes
- Prevents oversize film width
- Safeguards against inaccurate manual measurement
- Prevents width fluctuations caused by temperature changes

Automation

- Simple to operate
- High accuracy of control
- Shorter start-up and change over periods
- Continuous recording and display of film width

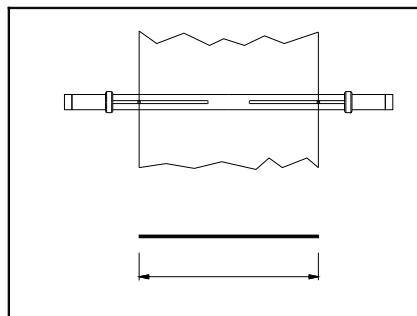
Octagon Control Systems: Quality control, optimised products, raw material savings

Special features of a well-proven measuring system

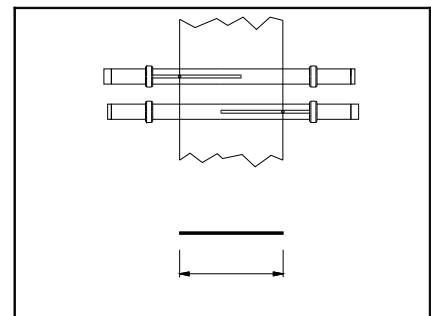
- Mechanical parts totally protected in every sensor position thereby preventing any contamination of mechanical element.
- Measuring sensor operates without making contact with the film, therefore no risk of film being scratched.
- High measurement accuracy by use of precise infrared sensors.
- Drive by stepper motors reduces maintenance to a minimum.
- Measuring devices at both ends of the tube operating totally independent of each other.
- Installation fast and simple

Measuring range and accuracy

The measuring range between minimum and maximum width is 1400 mm. Different tube lengths allow adaptation to job-specific requirements.
Each measuring step has a resolution of 0.1 mm allowing the system to operate with an accuracy better than 1 mm.



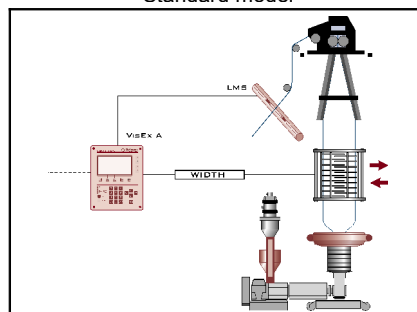
Standard model



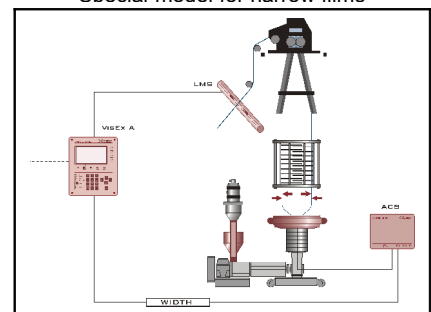
Special model for narrow films

Measuring and control tasks on an extrusion line

- Lay-flat width measurement
- Lay-flat width control
- Bubble volume control ACS on lines without IBC
- Calibration basket control on lines with IBC



Width control via calibration basket



Width control via ACS inflate/deflate device

Process controller VisEx A

All elements of the system are connected to VisEx A controller which is installed at a maximum distance of 5 m from the LMS.

Its front panel include numerical key board, operating keys and modern LCD display panel making it easy for the operator to enter and read all production data.

Simple data input:

- Target lay-flat width mm
- Target gusset depth mm

Clear LCD display:

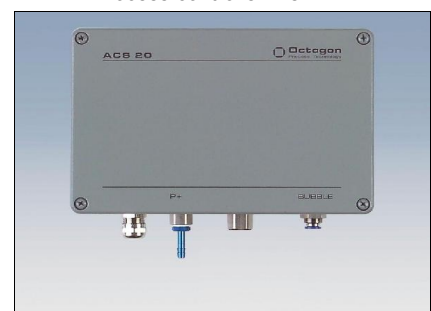
- Target/act. width mm
- Target/act. gusset depth mm
- Alarms
- Order number



Process controller VisEx A

Inflate / deflate device ACS

This device allows the width to be maintained by automatic adjustments of the bubble air volume. Additional air is automatically blown into the bubble if the width has decreased. Similarly the air volume is reduced if the width has increased.



Inflate / deflate device ACS

Octagon
Process Technology GmbH
Nuemberger Straße 119
D-97076 Wuerzburg

Phone +49 931 27 96 70
Fax +49 931 27 47 19

contact@octagon-gmbh.de
www.octagon-gmbh.de