

Thickness profile measuring sensor PMS-A for measurement in the A-frame

Solutions ...

The PMS-A sensor has been specially designed for the measurement of the thickness profile on blown film lines. Highly sophisticated and well-proven in design it assures safe functioning thereby playing an important part in improving quality control in blown film production.

Installation of the capacitive sensor PMS-A in the A-frame

Due to rotation of the extruder, an oscillating haul-off or rotating die, each point of the circular film profile passes the PMS-A sensor allowing the bubble to be measured around its entire circumference and a complete profile to be registered.

... for blown film lines ...

The capacitive sensor PMS-A measures the film in the A-frame. With a sensor resolution of 0,1 μm even minimal deviations of the thickness are recorded and processed for display in a gauge profile.

... modular and economic.

Equipped with its own process electronics, the PMS-A sensor connects to a central computer via field bus interface, e. g. profibus, for the display of measurement data and gauge profile.



Capacitive sensor



For measurement of the thickness profile the sensor needs to be in contact with the film.

Quality

- Certified quality
- Ensures constant film quality
- Minimises tolerance ranges
- Better fulfilment of customer's requirements
- Efficient aid for centring the die

Advantages

- Reduced waste
- Savings in raw materials
- No customer complaints
- User-friendly and low on maintenance

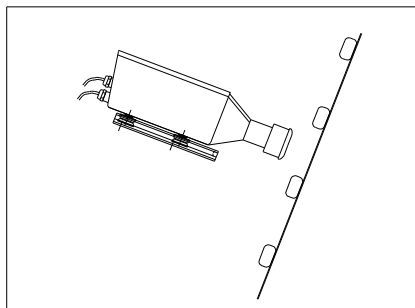
Automation

- Safer production process
- Continuous recording and display of thickness profile
- High-tech sensor for modular concept of extrusion control

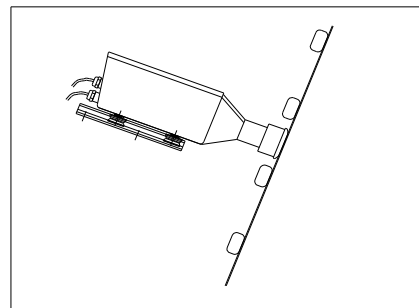
Octagon Measuring Modules: Technology especially developed for extrusion control

Operating the sensor

For automatic positioning on the bubble the sensor is mounted on an adjustment unit which is driven by a stepper motor. Whenever the measurement is switched on, the sensor automatically moves forward into measuring position.



Sensor in parking position



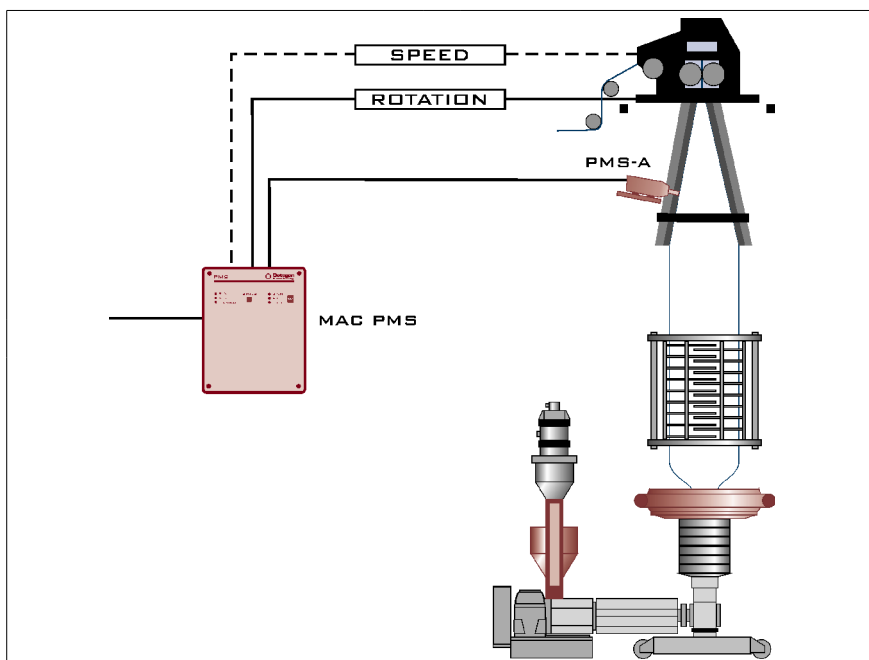
Sensor in measuring position

Automatic positioning device



The sensor is mounted onto a steel rail allowing it to be moved into measuring position and vice-versa. Drive is by stepper motor located in the sensor housing. This makes the mechanical and electrical installation a simple process.

Installation in an extrusion line



Standard extent of delivery

- Measuring sensor PMS-A
- Controller MAC-PMS
- O-point sensor

Other options

- Web speed probe
- Sensor for counting teeth

Line specific features

- System suitable for rotating or oscillating lines

Technical features

- Measuring range 6 - 500 μm
- Resolution 0,1 μm

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