

# Automatic control of coextrusion lines

## ScenEx C

### Solutions for coextruders ...

The Module ScenEx C is a process controller especially designed for the automatic control of coextrusion lines.

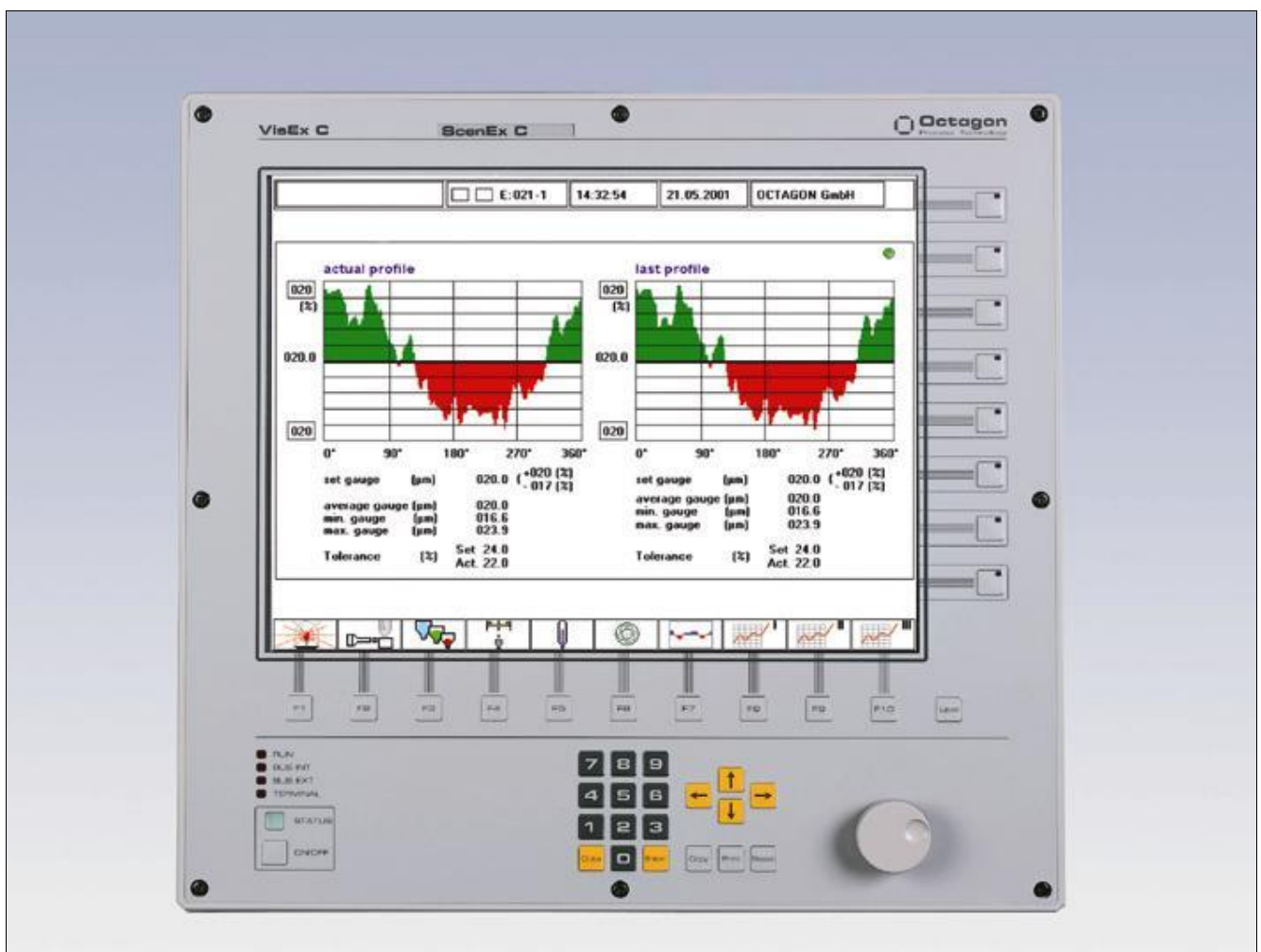
The extent of automatic control depends on the ScenEx measure and control modules connected.

### ... modular and ...

All ScenEx measure and control modules are equipped with their own CPU. They are connected to ScenEx C via a fieldbus (e.g. profibus) for continuous transmission of measure and control data.

### ... simple to operate.

To operate the system, ScenEx C is supplied as an integral unit with the VisEx C online visualisation. Its optimally designed operating panel makes the system extremely user-friendly and present a clear view of all process data.



### Modular concept

- Mechanical and electrical installation fast and simple
- Communication with ScenEx measure and control modules via fieldbus interface (profibus)
- Easy integration of Octagon systems - Plug and Run

### Sophisticated technology

- Comfortable to operate all functions via central operating panels VisEx
- Clear presentation of all process data, film data, alarms and charts
- Simple input of all set data

### Automation of process

- Simplified extrusion process
- Safer production process
- Continuous recording and display of process data
- Better use and planning of production capacity

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

## Measure and control tasks:

Connecting appropriate ScenEx modules allows the following control tasks:

### Module WLS

- Layer gauge control
- Throughput control on coex line with up to 7 extruders
- Lineal weight control

### Module GDS

- Gravimetric dosing of up to 6 additives per extruder

### Modules LMS, GMS, Scan

- Width measurement and control

### Modules PMS-A, PMS-B, VenPad PMS-F

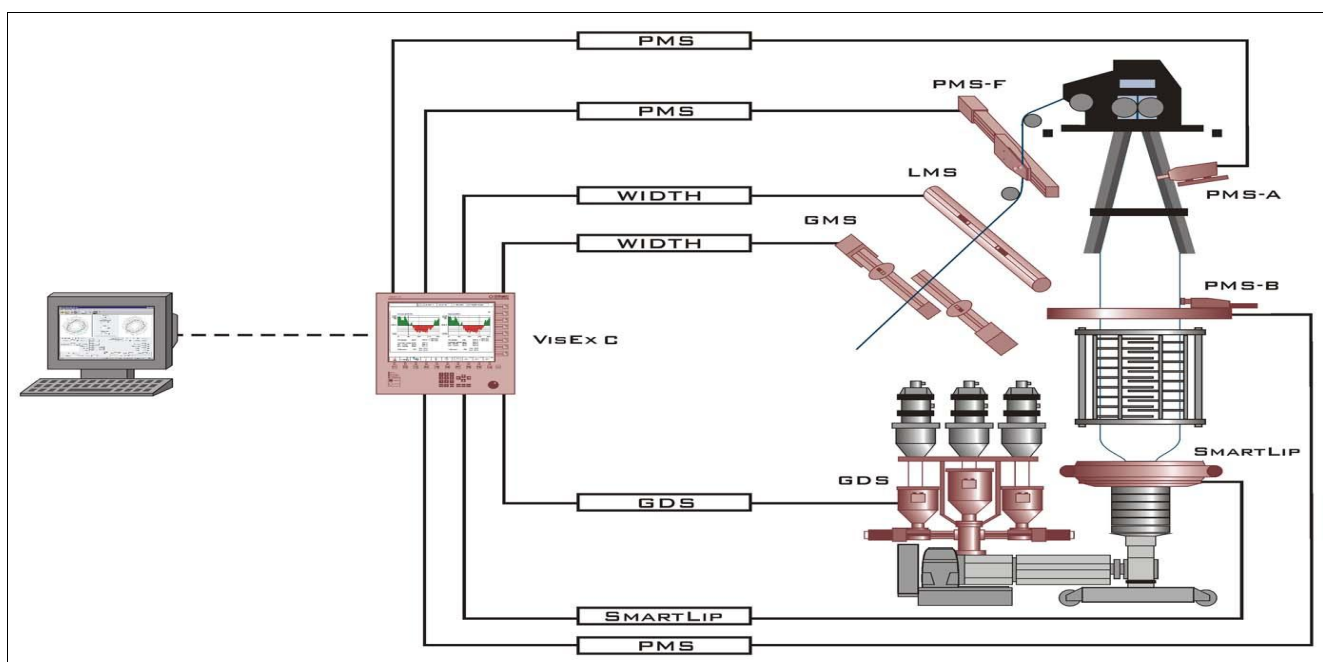
- Capacitive thickness profile measurement

### Modules SmartLip, SmartLip SL, SmartLip DL, SmartLip TL, mc8

- Automatic thickness profile control

### PC software DIAG-Win

- DIAG-Win Basic
- DIAG-Win Comfort



Measure and control concept ScenEx C

## Layer gauge control

The WLS modules allow accurate measurement of the throughput of the different layers. Using this information, the ScenEx C process control calculates and automatically controls the extruder speeds required for each extruder and additionally the web speed to maintain total film thickness.

## Tasks

- Throughput measurement and control
- Extruder screw speed measurement and control
- Layer gauge control on coex line with up to 7 extruders
- Web speed measurement
- Web speed control
- Lineal weight control

## Less costs and higher quality

- Reduced waste during start-up and job changes
- Film is **never too thick**, therefore savings in raw material
- Constant thickness for each layer
- Film is **never too thin**, therefore no customer complaints
- Ensures consistency in quality

## Input of set data:

- Target thickness for each layer
- Density for each layer
- Target total throughput
- Lay-flat width

## Syst. supplied layer gauge cont.

- Process control ScenEx C
- Visualisation VisEx C
- Web speed probe
- Motorised potentiometer haul-off

## For each extruder:

- Thrupt measurement unit WLS
- Tacho rpm.
- Motorised potentiometer extruder

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