

Automatic control of mono extrusion lines

ScenEx M

Solutions for monoextruders ...

The Module ScenEx M is a process controller especially designed for the automatic control of mono-extrusion lines.

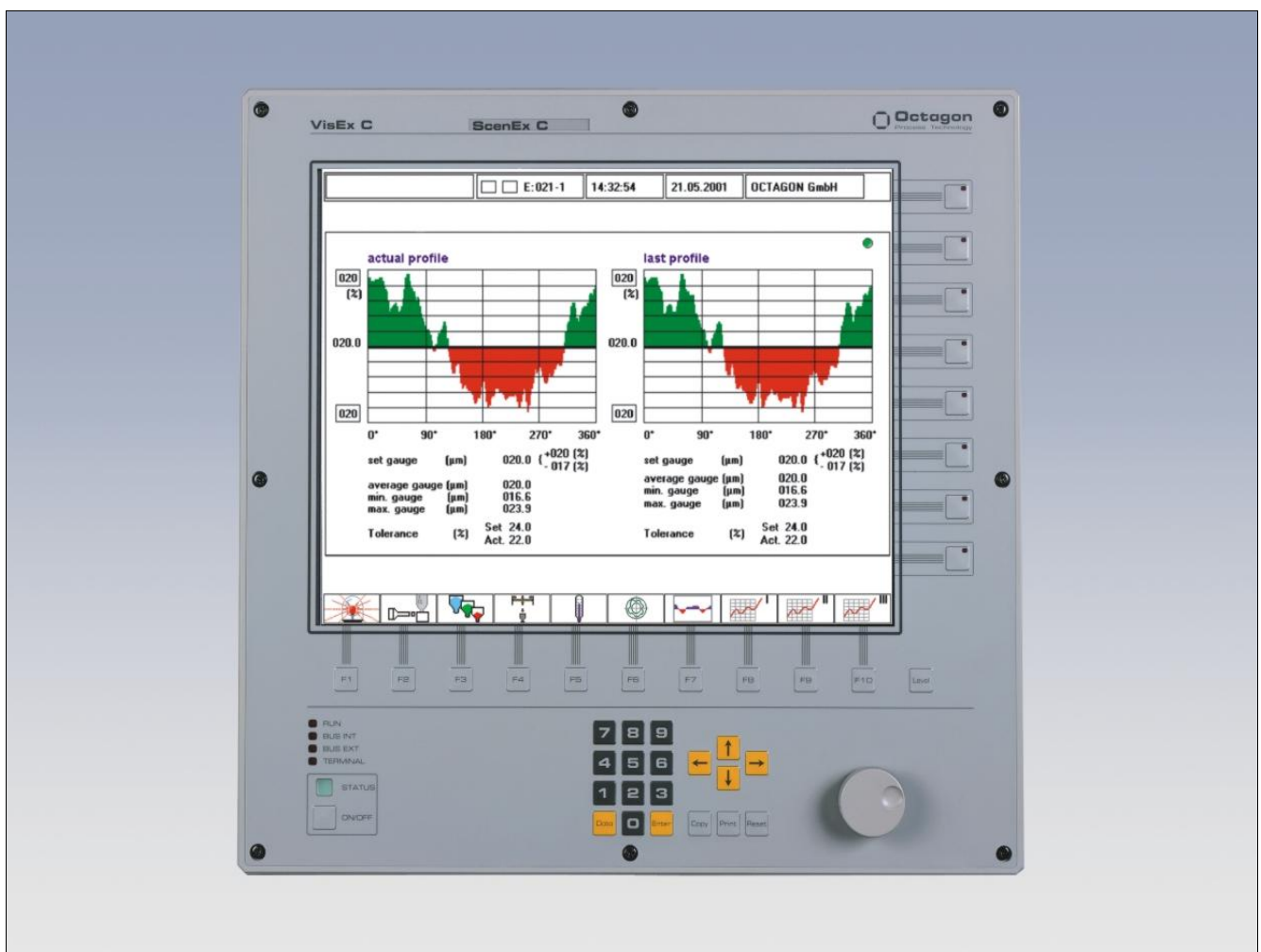
The extent of automatic control depends on the ScenEx measure and control modules connected.

... modular and ...

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

... simple to operate.

To operate the system, ScenEx M is supplied as an integral unit with the VisEx C online visualisation. Their optimally designed operating panel make 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 GDS

- Gravimetric dosing of up to 6 additives

Module WLS

- Lineal weight control
- Throughput control

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

- Capacitive thickness profile measurement

Modules LMS, GMS, Scan

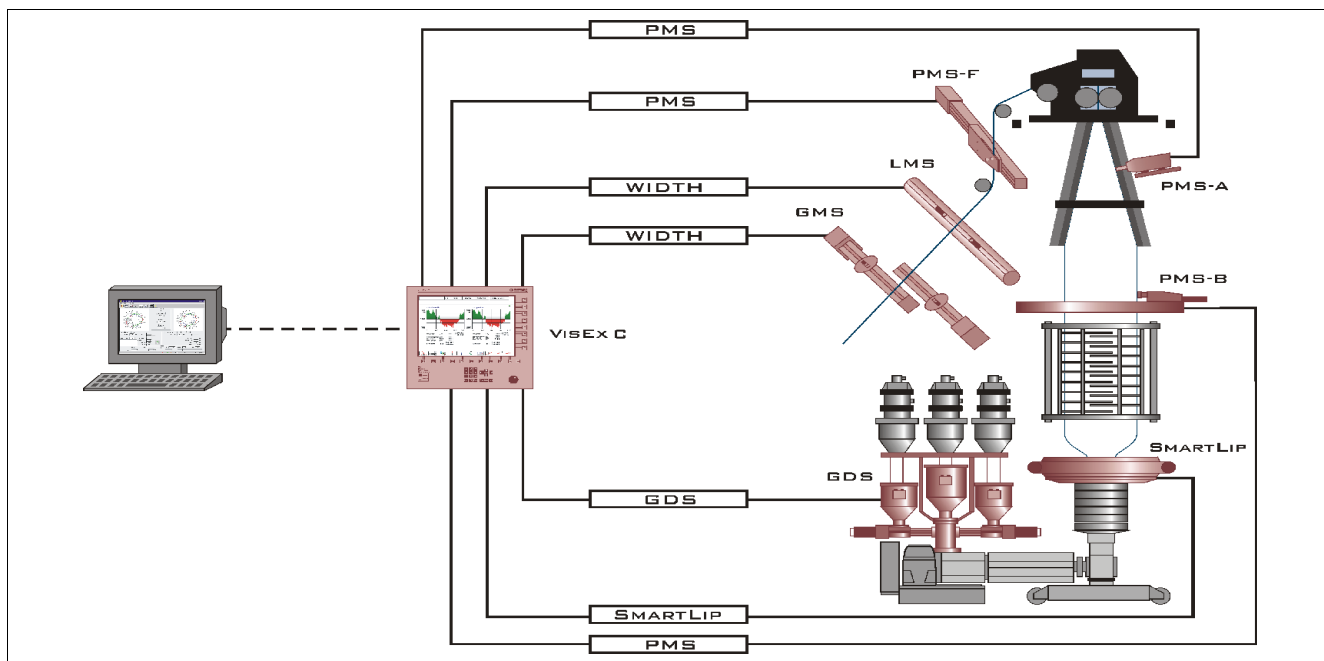
- Width measurement and control
- Automatic thickness profile control

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 M

Gravimetric dosing

The throughput of all components is accurately measured by the WLS modules. Using this information, the ScenEx M and the GDS modul calculate and automatically control the dosing screw speeds required for each component and additionally the web speed to maintain total film thickness.

Tasks

- Throughput measurement and control of all components
- Dosing screw speed control for up to 6 additives
- 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
- Film is **never too thin**, therefore no customer complaints
- Ensures consistency in quality

Input of set data:

- Target total throughput
- Target thickness
- Target percentages of all additives
- Density for all components
- Lay-flat width

System supplied for dosing:

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

For each additive:

- Throughput unit WLS
- Dosing unit

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