

Gravimetric dosing and lineal weight control ScenEx D

Solutions for blown film lines

Combining advanced technology with market demands, the system ScenEx D offers a highly accurate and reliable gravimetric dosing system and extrusion control.

Gains are immediate in terms of raw material savings and reduction of start-up and production time for each order.

Three dosing concepts:

- Gravimetric control as per actual extruder throughput
- Gravimetric control as per set throughput for each component

The consumption of each material is accurately measured by a patented throughput measurement system with simultaneous control of lineal weight via the haul-off and/or extruder screw speed.

- Dosing of additives may also be without gravimetric measurement in proportion to main material

Special features of ScenEx D

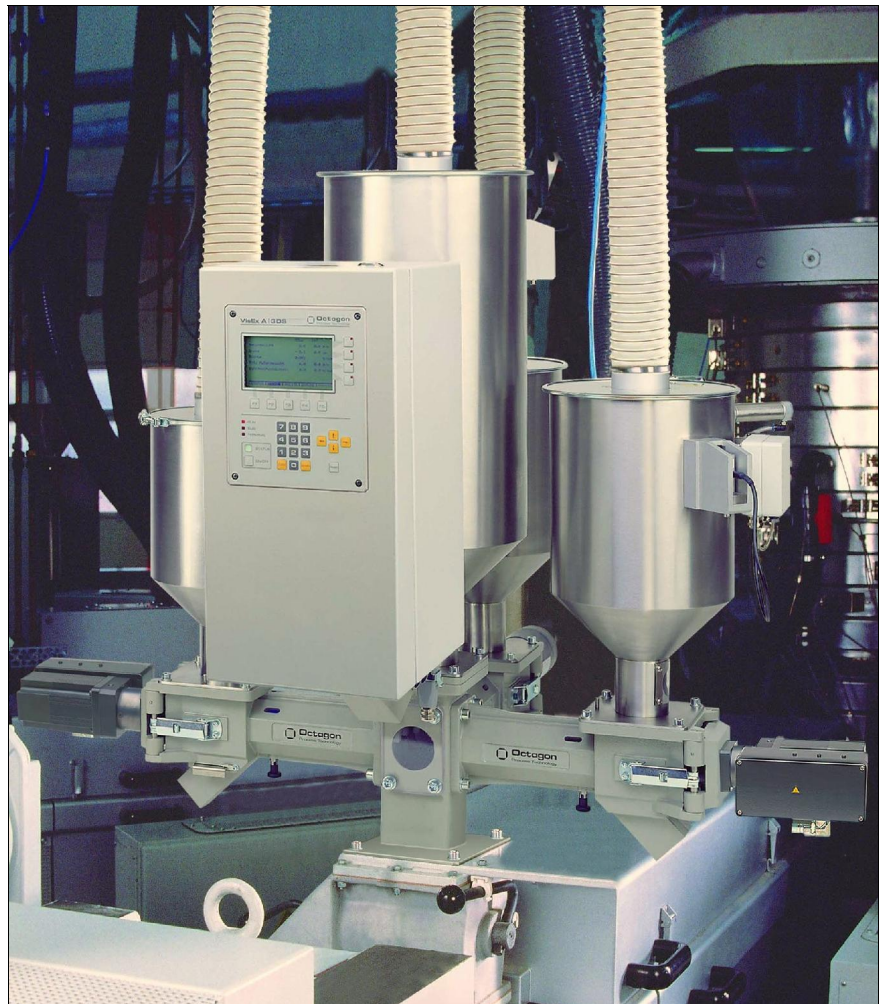
- Weighing bin protected by external hopper thus preventing any false measurements
- Memory for 100 formulas (option)
- Control options for
 - set lineal weight
 - or
 - set average thickness
- Remote fault diagnostics (optional)

Function description

Main material and additives are each measured by loss of weight, a process assuring most accurate dosing and constant weight percentages. The different materials enter into the extruder at the correct proportion, any demixing due to different densities cannot happen.

Simultaneously, the system automatically controls the lineal weight of the film by controlling haul-off and/or extruder screw speed.

Best reproducibility and mixing proportions are the order of the day, resulting in excellent colour uniformity and product characteristics on mono and coex lines.



Quality

- Consistent quality for entire production order
- Assured reproducibility for repeated production order
- Evenly distributed colouring
- Accurate proportions of all component materials

Advantages

- Savings on additives possible up to 10 %
- Savings on manpower
- Time savings during start-up and job changes

Automation

- No demixing of components as dosing units are fitted at material intake of extruder
- No additional mixer required
- Extruder control and gravimetric dosing in one system
- Plug and Run system

Octagon control systems: Quality control, optimised products, raw material savings

Standard-extent of delivery:

For each material component:

- Throughput measuring unit
- Mounting frame (option)

For each additive:

- Dosing unit

For each extruder:

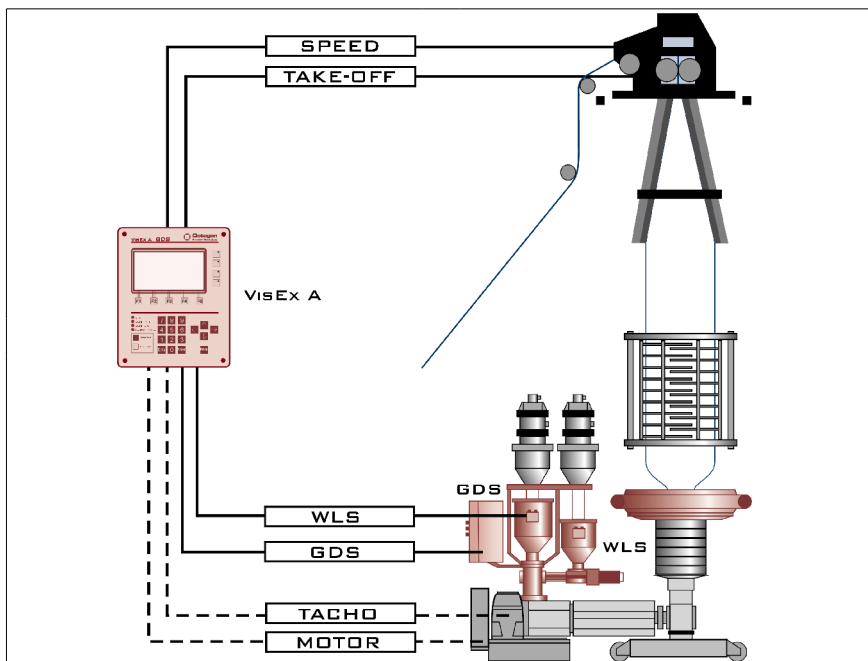
- Dosing controller GDS
- Taco U/F converter (option)
- Motorised potentiometer (option)

For each line:

- Web speed probe
- Motorised potentiometer haul-off

Extension:

- Width measurement and control



ScenEx D system integrated in extrusion line

Process computer VisEx A

Illuminated LCD display:

- Target/act. lineal weight g/m
- Target/act. thickness μm
- Target/act. throughput kg/h
- Target/act. percentage of additive %
- Web speed m/min
- Density of each component
- Alarms
- No. of formula (option)
- Target/act. width (option)



Process computer VisEx A

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