Octagon Process Technology

Throughput measuring unit WLS

Solutions ...

The WLS weighing system is used as measuring element for the control of throughput, lineal weight and average thickness. Highly sophisticated in design it assures safe functioning and reliability. The system is suitable for all free-flowing granulated resins.

... for extrusion lines and ...

The WLS unit is equipped with its own process computer. Via a field bus interface it connects to a central computer where the target and actual data are displayed. Several display modules are available for the user.

... applications.

Measurement of resin consumption on mono and coextrusion lines for blown film, profiles, pipes and sheet for

- Throughput control
- Lineal weight control
- Layer gauge control

A patented weighing system with special features:

- Hermetically sealed load cell
- Weighing bin protected by external hopper
- Weighing bin freely suspended and not supported by any rubber joint that may influence accuracy
- Central material flow
- Weighing hopper operating independent of time and weight factors
- System uses smaller and hence more precise load cells
- Faster determination of accurate throughput value
- Simple calibration with reference weights
- All hoppers of stainless steel
- Various sizes for throughputs up to 800 kg/h
- Direct connection to remote fault diagnostics
- All connections via plug-ins

WLS throughput measurement unit with process controller MAC-WLS

Fully-met requirements

- Highest measuring accuracy
- Frequent measurements
- High degree of linearity over entire measuring range
- Safe in functioning
- Perfectly adaptable by modular design

Why use gravimetrics?

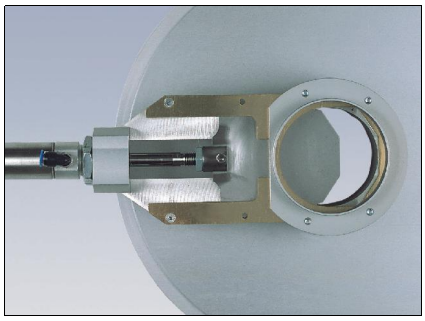
- Cost reduction with less waste during start-up and job changes
- Homogeneous throughput and/or lineal weight
- Reduced tolerances
- Low in maintenance and user-friendly

Optimal integration

- Mechanical and electrical installation fast and simple
- Communication via fieldbus interface (e.g.profibus)
- Easily integrated by simply connecting BUS cable, compressed air and power supply

Octagon measuring modules:
Technology especially developed for extrusion control

Details:



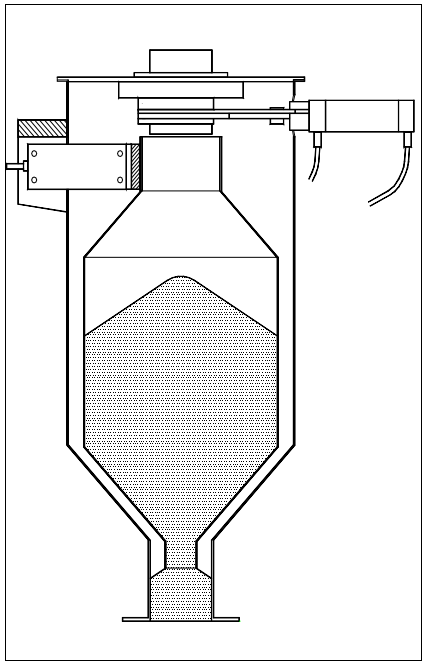
Slide-valve free from maintenance

The pneumatic slide-valve has been especially developed for granulated resins. Its special mechanical features ensure a most reliable control of the material flow required for accurate measurement.

Protected weighing hopper

All load cells used are high-grade and hermetically sealed ensuring reliability and accuracy with the measurement of throughput. An external hopper protects the weighing hopper, so the measuring values can not be influenced by an accidental contact of the weighing system during production.

Details:



Central material flow

Due to the special Octagon design the weighing hopper is suspended centrally. Neither counter weights nor rubber joints are used therefore eliminating any false measuring values.

Optional mounting frame

An optional mounting frame is provided for fitting the supply hopper or a hopper loader.

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