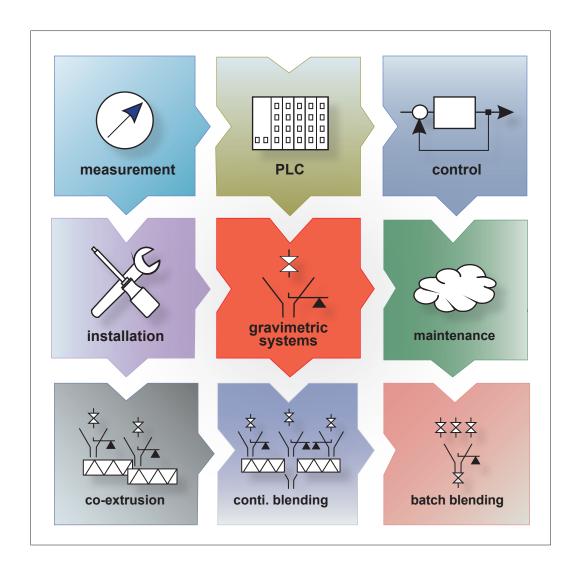
Automation for extrusion



weigh hopper series BTW

☑ loss-in-weight measurement for free-flowing material

☑ range: 0,1 ... 2000 kg/h ☑ hopper volume: 2 ... 100 l







continuous gravimetric blending

☑ 1 ... 8 screw feeder controlled by a guide value

☑ 1 ... 8 screw feeders, side component, free-flowing main component extruder throughput control





material feeding

✓ vacuum conveyor✓ control system



gravimetric vibrating feeder

application area

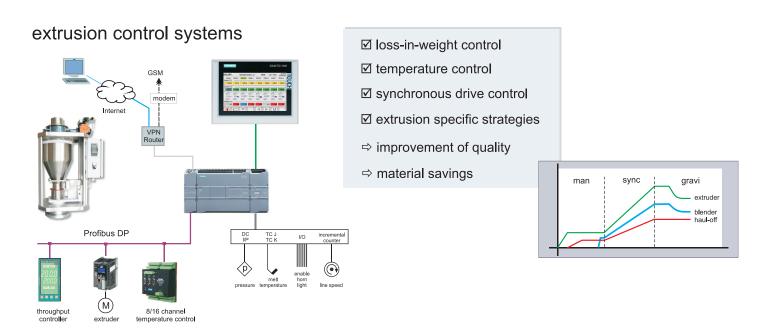
☑ shear-sensitive material

☑ short glass fibers



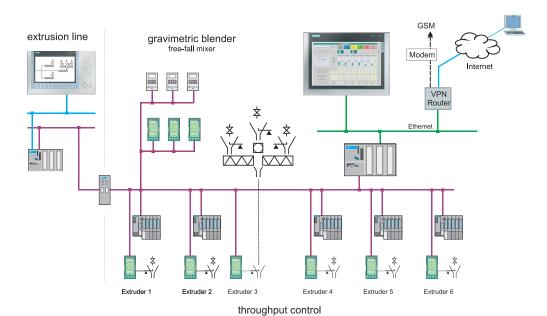
stand-alone control units g/m - controller extruder throughput controller ONOFF

gravimetric blender



enhanced machine control systems

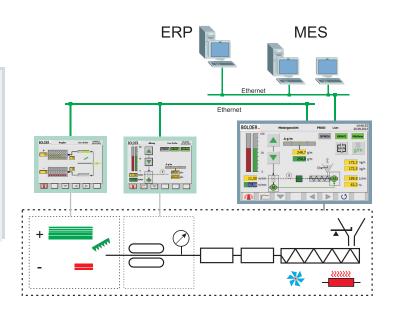
- ☑ co-extrusion control layer-thickness control
- ☑ gravimetric blending
- ☑ material feeding
- ☑ process supervision



production

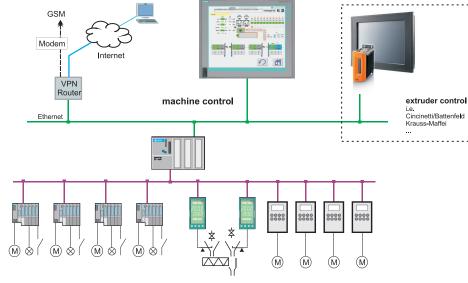
requirements

- ☑ to meet the schedule
- ☑ to assure quality
- ☑ to avoide wastage
- ⇒ information acquisition, visualisation, processing PLC, MES, ERP
- ⇒ continuous process improvement



system integration

- ☑ integration of PLCs, drives, gauges etc.
- ☑ networking
- ☑ visualisation



communication

- ☑ line supervisor
- ☑ diagnostics
- ☑ remote control

