BOLDER GmbH
AUTOMATION

Automation for extrusion

- gravimetric blending
- extruder control
- system integration

Throughput control and gravimetric blending

Continuous gravimetric systems using the loss-in-weight principle ensure:

- High blending stability
- Equal layer distribution in co-extrusion
- Constant extruder feeding
- Material savings

MOTAN SPECTROCOLOR G

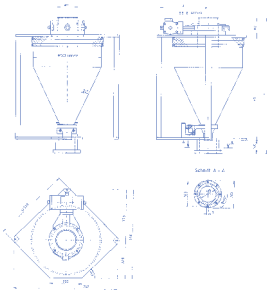
Weigh hoppers

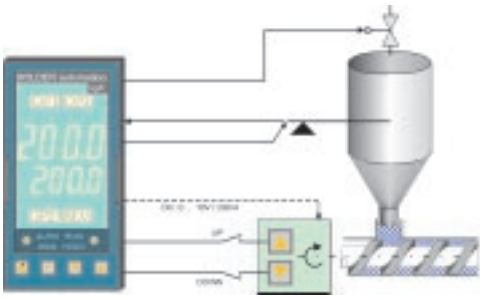
KTW:	pellets, regrind, powder
Spectrocolor G	pellets, regrind

each for free-flowing material

Blending stations

Type	Main-/ side- component blending Blending, starved extruder feeding Blending, level controlled	
GCB	1 ... 8 components,	0.1 ... 1500kg/h
Spectrocolor G200	1 ... 4(6) components,	0.1 ... 200kg/h
Spectrocolor G1200	1 ... 4(6) components,	0.1 ... 1200kg/h





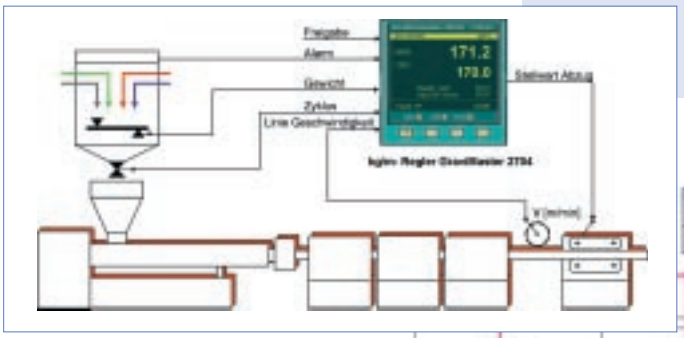
Elektronics

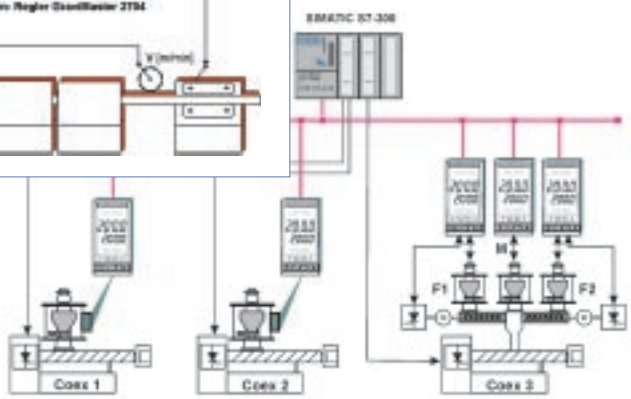
Discrete controllers

Throughput controller	GraviMaster 2408ex
kg/m- controller	GraviMaster 2704
Blend controller	GraviProfi 2408

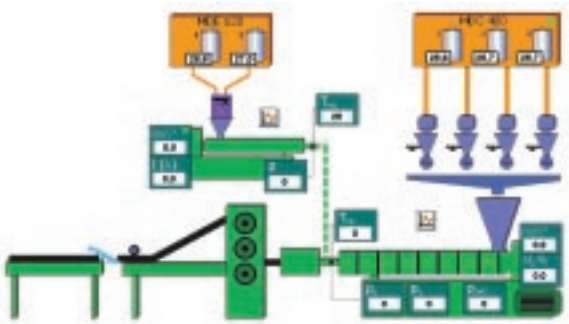
Distributed Fieldbus instruments

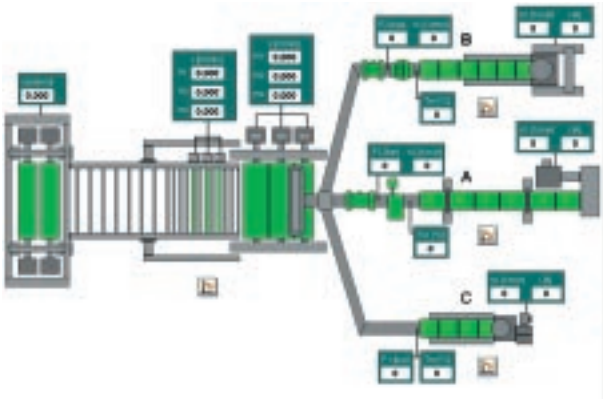
Co- extrusion controller	GraviProfi 2408dp
Blend controller	GraviProfi 2408dp
PLC interface	Profibus-DP, Modbus, DeviceNet CAN

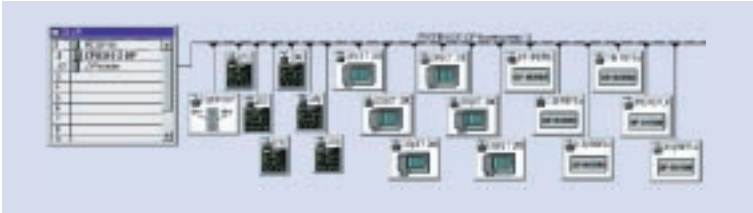




Automation of extrusion lines





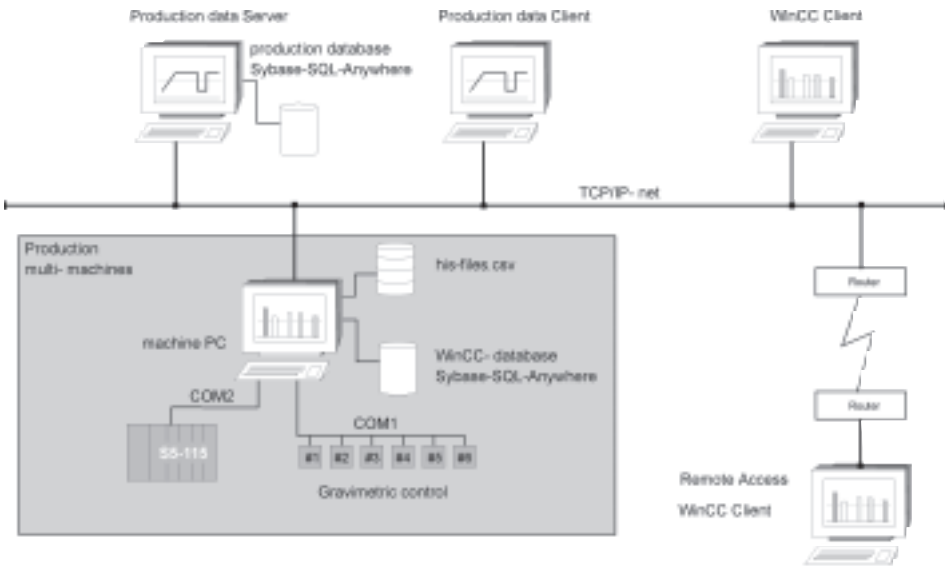


SCADA based on Siemens WinCC

- **General features**
  easy operation
  alarm handling
  recipes
  data logging

- **Specials**
  reports
  export of data
  choices of language
  alarm clock function
  networking
  remote diagnostics

System integration



- **Logging of production, quality and process data**
  → good overview of production cost
- **Local/remote diagnostics with fast problem fixing**
  → reduced running cost
- **distributed databases**
  → minimized administration cost

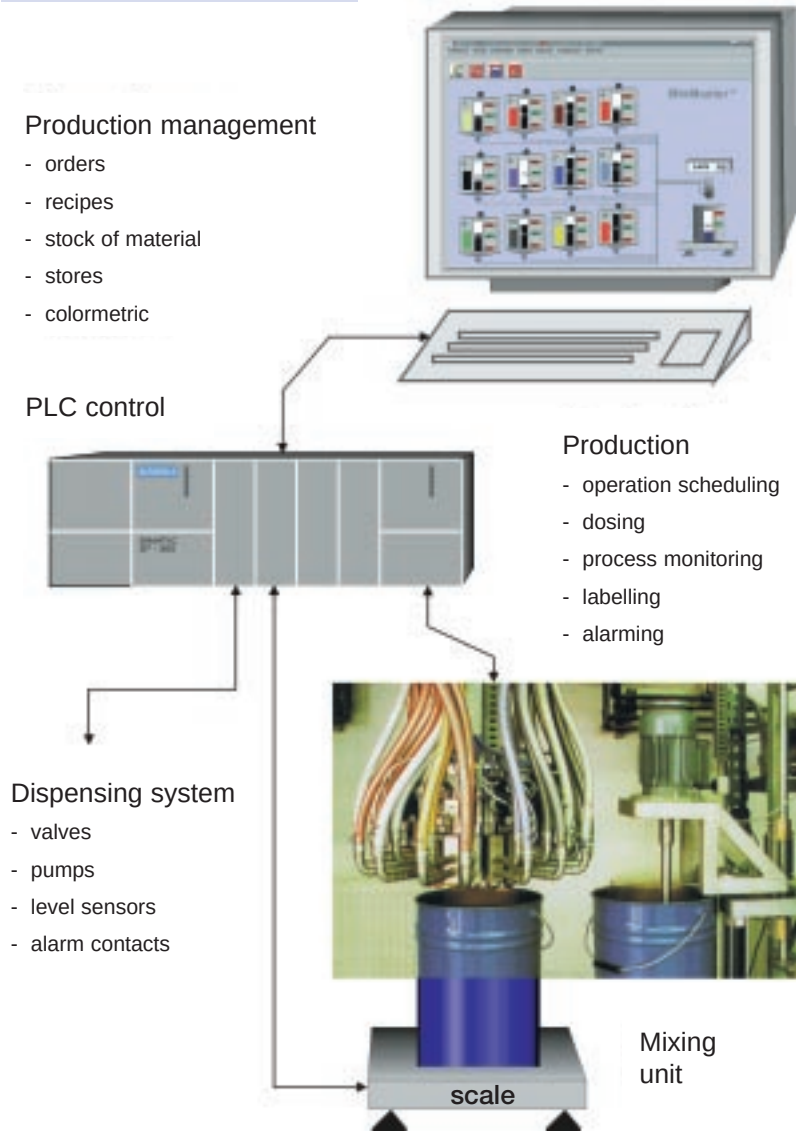
Batch blending

The mini MixMaster

The specialized solution for dosing:

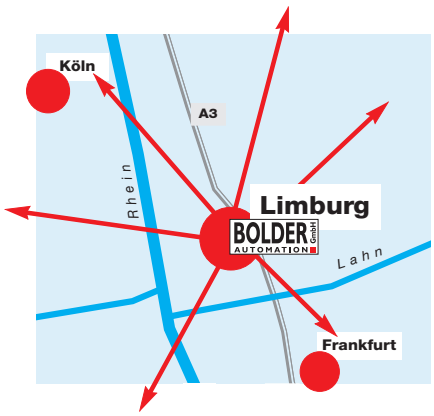
- 20 recipes / 16 components
- simple to operate
- interface for uploading and downloading of recipes and monitoring of quality.

The universal MixMaster



The universal solution for dosing:

- >1000 recipes and up to 64 components
- simple to operate in different languages
- database of all data as recipes and process logs
- multi operator access via the network
- adaptable for various tasks



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