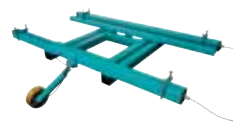




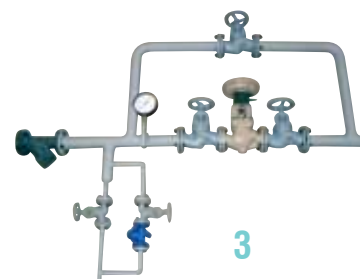
EXTERNAL SENSORS AND ASSEMBLY GROUPS



1



2



3



4

1 ELECTRONIC PLASTOMETERS

Plastometers for detection of pressure value optional either with temperature sensor PT 100 and display station or with variously designed displays.

2 QUANTITY DETECTION

Belt-weighers can be integrated for the determination of material throughput. Existing weighing frames can also be integrated into the Novatronic C3 system. When the installation of a belt-weigher is impossible for technical reasons we can provide level switches for determination of throughput via belt speed and material height.

3 DOSING UNITS FOR STEAM

From DN 25 to DN 65 with electro-pneumatic proportional control valves for additions of 625 kg/h to 3750 kg/h at 8 bar.

- Supplied ready for installation

4 DOSING UNITS FOR WATER

- With impulse valves
- Throughput performance with piston stroke 1 mm at 1.0 bar 0 ... 500 l/h at 3.0 bar 0 ... 1000 l/h
- Throughput performance with piston stroke 2 mm at 1.5 bar 0 ... 1250 l/h at 3.0 bar 0 ... 2500 l/h

In case of problematic water supply and/ or large throughput volume electro-pneumatic proportional control valves are employed.

- Design size DN 15 - DN 50
- Throughput performance at 3 bar from 1800 l/h up to 15.500 l/h
- Supplied ready for installation

ADDITIONAL SENSORS AND ASSEMBLY GROUPS

- Measuring transducers for direct and alternating current
- Water meters
- Level measurement for monitoring material level in hoppers and containers
- Screen recorders
- Frequency converters
- Assembly groups / sensors to customer request

TRUST IN INNOVATION



Sensor control

Gesellschaft für Sensorik und Automation mbH

PLASTICITY AND MOISTURE CONTROL SYSTEM

NOVATRONIC C3

For preparation and moulding lines for

- Brick and clinker works
- Roof tile works
- Production of hand-made bricks
- Technical ceramics
- Plant/garden ceramics
- Refractory ceramics
- Expanded clay

Modern PLC technology for the equipment of individual machines and lines with up to 5 control circuits

- Pan mills or sieve kneaders
- Single and double-shaft mixers
- Circular screen feeders
- Vacuum units

Your benefits

- Quality improvement
- Performance optimisation of the moulding process
- Energy saving at the dryer
- Reduction of working hours
- User-friendly (intuitive operating interface)
- Internal data exchange by interlinking
- High degree of availability by means of remote maintenance / diagnostic





NOVATRONIC C3



CONTROL OF UP TO 5 PROCESSING MACHINES

The following parameters can be employed for controlling the plasticity by addition of cold/hot water and/or steam, as well as dry matter, also combined:

- Power consumption
- Flow pressure in pressing head
- Material moisture
- Material temperature
- Material throughput



HARDWARE

The **NOVATRONIC C3** system can be supplied in a wall housing as well as in 19" execution for installation in existing control cabinets. A Siemens S7 PLC is used. In the standard version a 12" TFT touch display is used as a HMI.



SOFTWARE

- Multi-touch live image menues
- Presentation of the process data
- Intuitive user interface
- Measuring watchdog function



DATA BASE

The data obtained from the production process are filed in a data base and presented graphically for evaluation. In addition to the control parameters the following data can be stored in the data base:

- Water consumption [L]
- Water temperature [°C]
- Water throughput [Lh-1]
- Material consumption [kg]
- Effective power [Ws]
- Load profile [W]



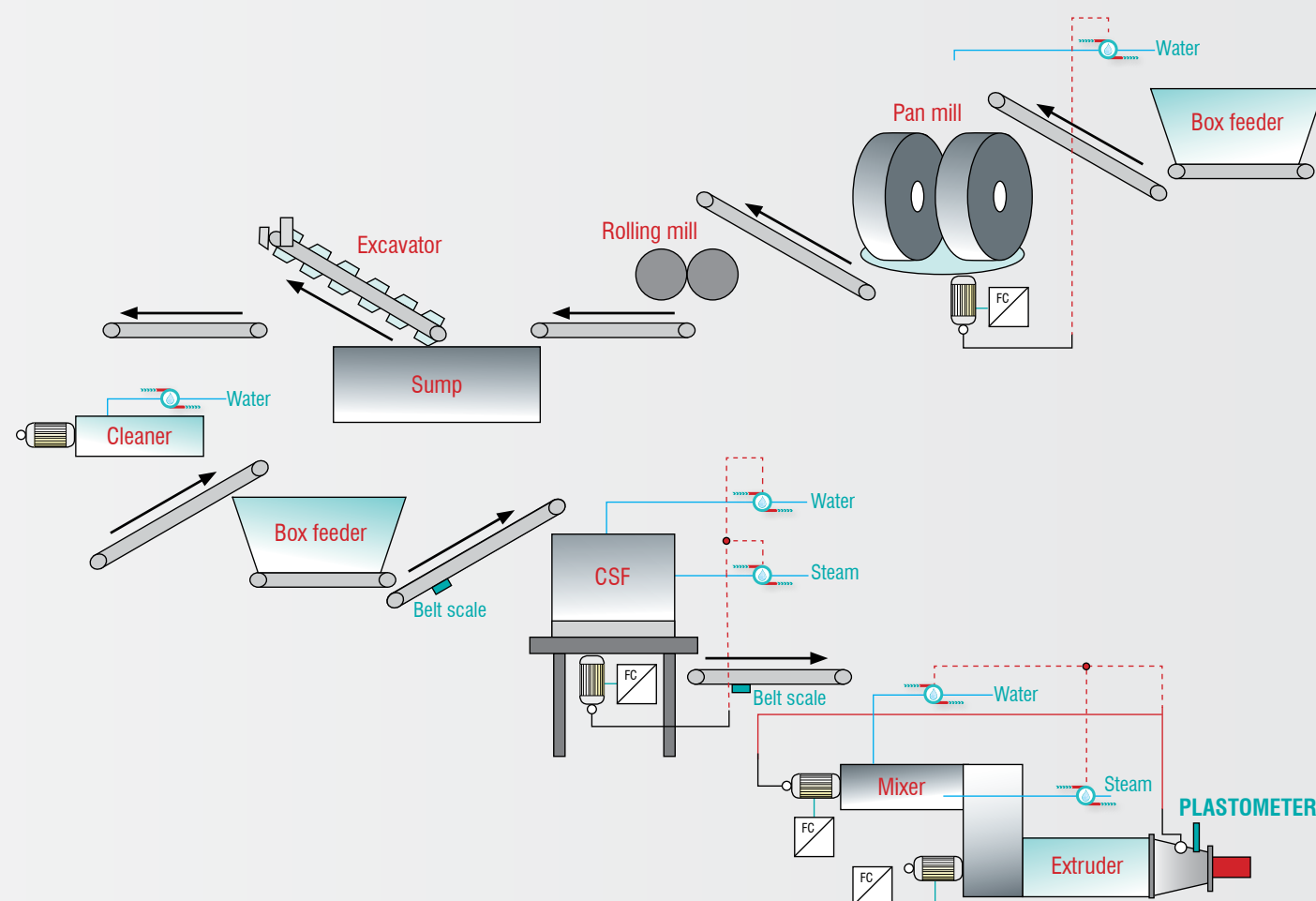
Special customer-specific features can be integrated.



CROSS LINKING

The **NOVATRONIC C3** can import all measured data into your company network.

- Data security
- Mobile HMIs / User interfaces
- Remote maintenance / diagnostic



Example: Typical preparation/moulding line