



TECHNICAL DATAS

	SPC II	SPC III	SPC IV
Combination of a moisture control system FRS	●	●	●
Used on a batch mixer with fixed pan		●	
Used on continuous mixer or batch mixer with rotating pan	●		●
METRIC USED SAND			
• Moisture measurement	●	●	●
• Temperature measurement	●	●	●
• Batch weight	●	●	●
• Density compensation (Sandmaster principle)	●	●	●
METRIC PREPARED SAND			
• Compactability	●	●	●
• Compression strength	●	●	●
• Shear strength	●	●	●
• Moisture measurement	●	●	●
• Temperature measurement	●	●	●
CORRECTION WATER METERING			
• Same batch		●	
• Next batch or in an adjustable time	●		●
CORRECTION ADDITIVES			
• Adjustable	●	●	●
EQUIPMENT HARDWARE	selection and quantity regarding equipment of the mixer group selection and quantity regarding equipment of the mixer group chooseable 5.7" or 10.4" or 15"		
• Capacitance moisture sensors	Ethernet, optional: Profibus, Profinet, RS 232		
• Temperature sensor	as option		
• Interface	as option		
• IPC with Touch-Screen	regarding mixer size between 1/2" and 2"		
• BUS			
• Printer			
• Remote diagnostics			
• Waterline			
EQUIPMENT SOFTWARE			
• Recipes	●	●	●
• Database with analyzing	●	●	●
• Evaporation curves	●	●	●
Cabinet	Dimensions 600 x 800 x 250 mm	Weights 33 kg	33 kg
IPC	600 x 800 x 250 mm	36 kg	36 kg
SPC depending execution approx	800 x 1800 x 1100 mm	95 kg	120 kg

TRUST IN INNOVATION



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INNOVATIVE PLANT CONCEPT DESIGNS

AUTOMATIC SAND TESTING SYSTEMS SPC



- Compactability
- Compression strength
- Shear strength
- Moisture measurement
- Temperature measurement

SPC II



SPC III



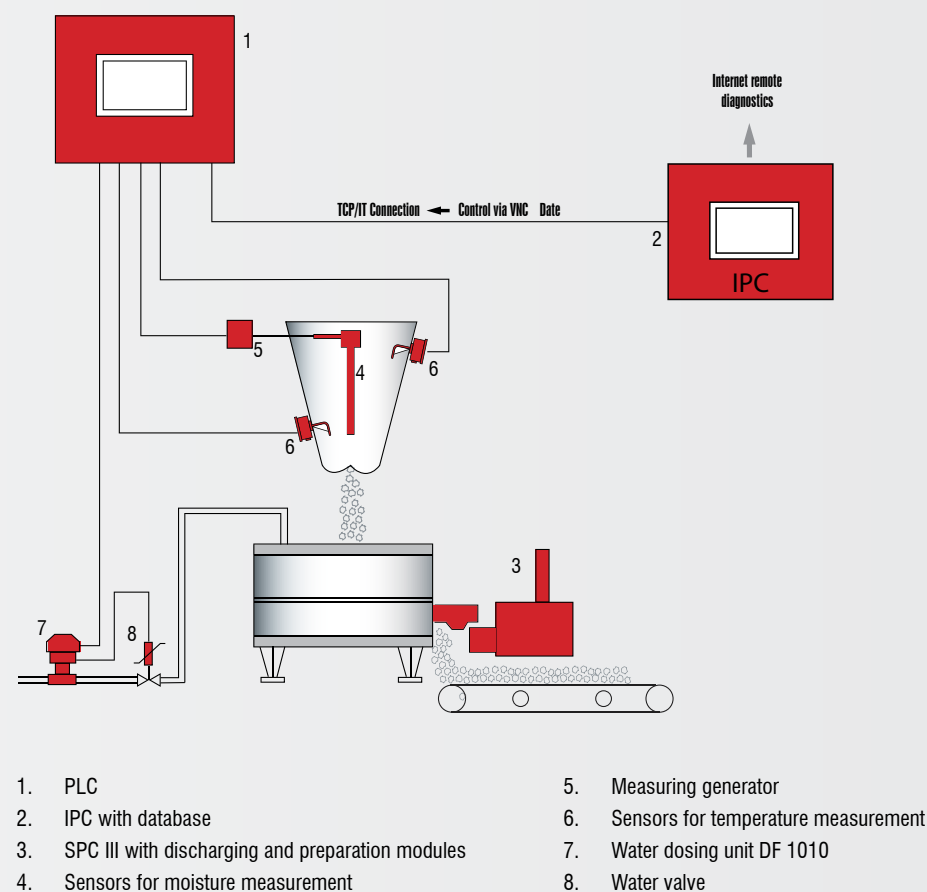
SPC IV



SAND TESTING SYSTEMS SPC

Our automatic sand testing systems SPC are designed for mounting in the sand plant to the mixer, or to the hopper above the molding line. Sampling directly from the mixer can influence the current batch. Sampling later will correct the next batch as necessary. Combination of our highly accurate and reliable moisture measurement system FRS with early water metering produces consistent quality and a high degree of molding sand conditioning.

All systems are characterized by robust industrial grade construction, easy operation and user friendly maintenance.



Example: Automatic sand testing system SPC

HARDWARE

A Siemens S7 is installed in the PLC.
In the standard version, a 5.2" TFT touch display serves as the HMI.



SOFTWARE

- Multi-touch menus
- Presentation of the process data
- Intuitive user interface
- Measuring watchdog function



DATA BASE

All process-relevant data 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:

- Compactability
- Compression strength
- Shear strength
- Moisture measurement
- Temperature measurement
- Batch weight *
- Density compensation *

Special customer-specific features can be integrated.

* only with FRS-M system included.



CROSS LINKING

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

