

QUESTIONNAIRE

Technical specifications for the instrumentation of a molding sand preparation by Humidity control system at the Batch Mixer

Company name:

ZIP, City:

Phone:

Fax No:

Contact person (direct dial):

1. FIRST SAND SPECIFICATIONS

synthetic sand Yes No

natural sand Yes No

Dosage per batch kg

AGGREGATES IN KG

bentonite kg

carbon kg

new sand kg

additional surcharges kg

Used sand residual moisture of to % H2O

Used sand temperature of to ° C

Finish sand of to % H2O

2. MIXER SITUATION (if possible drawing of sand preparation enclosed)

Type / model / the mixer / s

manufacturer

batch size

Mixing cycle in seconds

DOSAGE USED SAND

A. volumetrically via conveyor belt Yes No

belt speed m/sec sand height in cm

B. volumetrically with hopper Yes No

C. gravimetrically by hopper scale Yes No

D. gravimetrically with belt scale Yes No

IF REQUIRED, WE CAN OFFER YOU AN APPROPRIATE SCALE.

Sensor control

3. MOISTURE MEASUREMENT

Moisture measurement on the conveyor belt Yes No

Moisture measurement in the container or in the hopper scale Yes No

Dimensions of hopper:

Height of the conical heap with the highest occurring sand moisture (eg robbery sand) at usual batch weight
 Height of the weighing container

4. TEMPERATURE MEASUREMENT

- Bands, 1 temperature sensor, only when tape does not run empty
- Tank installation, 2 temperature sensors, compared to vertically offset,

5. WATER METERING

water pressure bar
Previous average, metered amount of water in liters per batch liter

If a spirit level to be installed to meter water and dirt can ? Yes No

Connection to an existing weighing system?

6. RECIPE MANAGEMENT

How many recipes are to be managed? recipes

7. If an automatic sand testing system to be integrated? Yes No

Possible variants:

- A. SPC II = mounting and sampling on a belt transfer station (recommended execution)
- B. SPC III = mounting and sampling on the mixer
- C. SPC IV = mounting and sampling on a belt conveyor

Possible measurements:

Compactibility

Options:

Compression strength Yes No

Shear strength Yes No

Moisture Yes No

Temperature Yes No

(if moisture measurement is also selected, temperature measurement must be selected.)

8. IPC with Data Analysis (Data Management, Archiving, Analysis)

Data Collection and Archiving

Yes No

Presentation and Appraisal

Yes No

9. Other customer requirements for the system

10. WHAT IMPROVEMENTS OVER THE CURRENT SITUATION, ONE SHOULD USE THE HUMIDITY CONTROL SYSTEM WILL BE SCORED?

- Furthermore, we also provide humidity control systems for continuous mixers, refrigeration units
- Please give us technical specifications / drawings for a quotation.
- Also level detector for your silos and bins are part of our range of services. Fill in your specification.
- We also modernize your mixer control system based on Siemens S 7/Serie. Please give us your specifications for a quote.