

## 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  % H<sub>2</sub>O

Used sand temperature  of  to  ° C

Finish sand  of  to  % H<sub>2</sub>O

### 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:

<input type="text"/>	Height of the conical heap with the highest occurring sand moisture (eg robbery sand) at usual batch weight
<input type="text"/>	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	<input type="radio"/> Yes	<input type="radio"/> No
	Shear strength	<input type="radio"/> Yes	<input type="radio"/> No
	Moisture	<input type="radio"/> Yes	<input type="radio"/> No
	Temperature	<input type="radio"/> Yes	<input type="radio"/> 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

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

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- 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.