



Controller Information Worksheet: *Batch System*

***Please Note:** The information contained on these pages is used by Simpson Technologies Corporation, to properly determine the size of water valves, moisture probe and thermocouple length and programming and proper sequencing of equipment associated with the new Hartley compactability controller. Please fill out one form for each mixer carefully and accurately as field changes resulting from insufficient or inaccurate information could result in delayed start-up or additional charges.

Company Information			
Company Name: _____	Purchase Order: _____		
Address: _____	City: _____		
State/Province: _____	Country: _____	Zip Code: _____	
E-mail address: _____	Fax No.: _____		
Contact Name/Title: _____	Phone No.: _____		

Mixer: Describe the muller/mixer that the controller will monitor.			
<i>*Skip this section if the Hartley Controller will be provided with a new Simpson or B&P Muller</i>			
1. Available Power:	Voltage: _____	Frequency: _____	
2. Manufacturer & Model: _____			
3. Number of Discharge Doors: _____			
4. Batch Size (lbs.): _____			
5. Motor HP: _____	Voltage: _____	Amps, Full Load: _____	No Load: _____
6. Total Cycle Time (sec): _____			
7. Discharge Time (sec): _____			
8. Are there any special modifications? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<i>If YES, describe:</i> _____			

9. Equipped with a Damper: <input type="checkbox"/> Yes <input type="checkbox"/> No			
<i>If YES, Location:</i> <input type="checkbox"/> Top, Vertical <input type="checkbox"/> Side, Angle			



Desired Method of Sand Charging (Please Select One of the Following):

**Skip this section if the Hartley Controller will be provided with a new Simpson or B&P muller.*

Volumetric:

- Batch Hopper: *Fill Time (sec):* _____
1. Hopper Volume (ft³): _____ Size: _____
2. How Supported: Mixer Dust Hood Overhead

By Weight:

- Weigh Hopper
1. Scale Manufacturer: _____
2. 4-20mA Output Capability (Analog) Dry Contact Output (Digital)

Other: _____

Desired Method of Filling the Batch/Weigh Hopper:

- Conveyor
 With Plow Terminate into Hopper
- Bucket Elevator
 With Surge Hopper Directly into Hopper
- Overhead Bin
 Vibrating Bottom Gate

Current Water Addition:

1. Gallons used per batch: **Max:** _____ **Min:** _____

Clear Water From Dust Collector

2. Water Supplied By: City Water Pump and Tank

3. Water Pressure at Mixer: _____

4. Water Pipe Size at Mixer: _____

5. Indicate any *existing* water problems: _____

Other:

Sand Temperature (Indicate °F or °C): **High:** _____ **Average:** _____ **Low:** _____

Sand Moisture (%): **High:** _____ **Average:** _____ **Low:** _____

Existing Limit Switches Indicating:

**Skip this section if the Hartley Controller will be provided with a new Simpson or B&P muller.*

Batch/Weigh Hopper Gate:	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> None
Muller Discharge Door:	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> None
Stack Damper:	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> N/A
Blower:	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> N/A
Bond Dumper:	<input type="checkbox"/> Open	<input type="checkbox"/> Closed	<input type="checkbox"/> N/A

Existing Solenoids:

**Skip this section if the Hartley Controller will be provided with a new Simpson or B&P muller.*

Solenoid Voltage: _____

Batch Hopper Gate, Energized to:	<input type="checkbox"/> Open	<input type="checkbox"/> Close
Muller Discharge Door, Energized to:	<input type="checkbox"/> Open	<input type="checkbox"/> Close
Stack Damper, Energized to:	<input type="checkbox"/> Open	<input type="checkbox"/> Close
Blower, Energized to:	<input type="checkbox"/> Open	<input type="checkbox"/> Close
Bond Dumper, Energized to:	<input type="checkbox"/> Open	<input type="checkbox"/> Close
Does Blower & Stack Damper use the <i>same</i> solenoid?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Existing Sand Demand Method:

Discharge Hopper, Capacity: _____

1. Type of Level Probe: Capacitive/Conductive Rotary Paddle Other
2. Does Discharge Conveyor run: Continuously On Demand
3. Will more than one mixer discharge on the same belt? Yes No
4. Is the mixer controlled by Hartley Compactability Controller? Yes No

No. of Molding Machine Hoppers: _____

1. Is there a Level Probe? Yes No
2. Distance of Mold Hoppers from Mixer: _____

Desired Bond Addition System:

1. Type: Premix Bentonite Seacoal Cereal
2. Amount per Batch: *High:* _____ *Avg.:* _____ *Low:* _____
3. How Added: Screw Conveyor Belt Conveyor Vane Feeder Plate Feeder
 Pneumatic Manual Other:
4. Where is Bond Added: Batch Hopper Bond Dumper Mixer
 Other, Explain: _____

Desired New Sand Addition System:

1. Amount Added per Batch: _____

Per T/Iron Poured:

2. How Added: Screw Conveyor Belt Conveyor Rotary Vane Feeder
 Plate Feeder Pneumatic Manual
 Other:
3. Where Added: At Shakeout Batch Hopper Mixer Belt Conveyor
 Other: _____

Existing Sand Characteristics:

1. Sand Type: Silica Olivine
2. Compactability: _____
3. Moisture: _____
4. Methylene Blue: _____
5. Sand to Metal Ratio: *High:* _____ *Low:* _____
6. Green Strength: _____
7. Available Clay: _____

Metals Poured:	<input type="checkbox"/> Iron	<input type="checkbox"/> Brass	<input type="checkbox"/> Aluminum	<input type="checkbox"/> Steel
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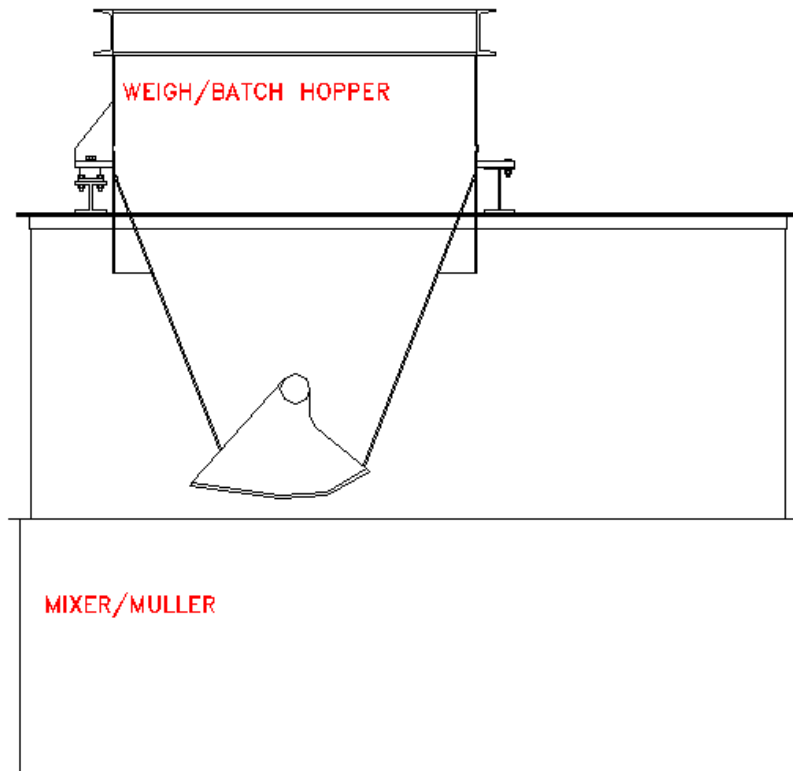
Special Requirements:

Please indicate any unique characteristics regarding your system that may not have been mentioned in the previous questions. (i.e. signal exchange with other equipment, bond/additives or new sand addition, bad batch handling):

Additional Information:

On the following page, please sketch the following devices where applicable in relation to the mixer/muller sketch provided:

- Batch/Weigh Hopper Feed Device (Conveyor, Elevator or Hopper)
- Discharge Devices (Conveyor(s), Hopper/Chutes/Probe)
- Bond/New Sand Addition Location
- Desired Location of Hartley Compactability Tester
- Water Addition Location
- Any Associated Limit Switches, Probes or Solenoids



By: _____ Date: _____

RETURN TO: Simpson Technologies Corporation
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