Concrete Batch Plants

Besser concrete batch plants are innovative to meet the needs of today’s changing marketplace and built rugged, like all Besser machinery, to stand the test of time.

Quality

Quality is the hallmark of Besser machinery. Besser uses its expertise and resources to design customized plants to customer specific requirements. Highly skilled staff follow the stringent Besser Quality System during the design, manufacture, assembly and testing of the plants. All Besser equipment is manufactured with precision machinery, insuring consistent quality every time. This attention to detail translates into plants that produce consistent concrete, batch after batch.

Durability

Durability is an equally important reason for the outstanding productivity of Besser batch plants. Batch plants have earned the reputation as “Heavyweight Performers” in the concrete industries.

Flexibility

Modular Design Weigh Belt System, Low Profile Batch System, Modular Design Volumetric System or Stack-Up Gravity Feed System, whatever your preference, Besser will design a batch plant to meet your needs. Besser has built custom-made aggregate bins with capacities up to 1000 tons (900 tonnes) that incorporate ten compartments and silos of 375 tons (328 tonnes) capacity with four compartment configurations with diameters up to 24 feet (7.2 meters).
Concrete Batch Plants

Modular Design Weigh Belt System

Model: W-1200 to W-2800

Features:

- Quick and simple erection
- The ability for future expansion: start with four bins and easily expand to seven bins in a row
- Aggregate bin capacities begin at 30 tons (27 tonnes) per compartment and can be expanded up to 140 tons (126 tonnes) per compartment
- Completely smooth interior walls insure complete discharge of all material from the bins
- Utilization of two bolted gates per bin compartment facilitates simple, effective maintenance and cost-effective operation
- An optional moisture separator package and an oil-free ambient dryer system prolong the life and efficiency of solenoid valves

<table>
<thead>
<tr>
<th>Bin Size</th>
<th>Bin Height (Dimension “C”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 / 54</td>
<td>24’ 7” / 7493 mm</td>
</tr>
<tr>
<td>100 / 90</td>
<td>30’ 7” / 9233 mm</td>
</tr>
<tr>
<td>140 / 126</td>
<td>36’ 7” / 11,151 mm</td>
</tr>
</tbody>
</table>

Note: Volume calculations are water-level. Tonnage based upon 100 pounds/cubic foot (90 tonnes) of material

Low Profile Batch System

Model: LA - 45 to LA - 289

Features:

- Solid design
- Maintenance free operation
- Modular construction of the aggregate bin allows 90-degree rotation to the batch conveyor when needed
- Aggregate bin is available with three to six compartments utilizing either a turn-head feed system or a radial stacker system, depending on your needs and site requirements
- Easy extension of the aggregate bins for additional storage capacity
- Pre-assembled and wired at the factory for quick and easy erection

Besser batch mixer with aggregate holding hopper, cement batcher and radial metering conveyor
Concrete Batch Plants

Modular Design Volumetric System

Model: V-1200 to V-2800

Features:
- Modular bin system for ease of erection and future expansion
- Volumetric feeder belts under each aggregate bin compartment feed onto a collecting conveyor that gathers and transfers material to the mixer
- Silos have capacities from 60 - 165 tons (54 - 149 tonnes) per compartment
  - air pads
  - clean-out inspection ports at the silo cone discharge
  - emergency pressure relief valves
  - double wall partitions in two-compartment silos
  - dust collection

<table>
<thead>
<tr>
<th>Model of Silo</th>
<th>1300-1</th>
<th>1575-1</th>
<th>1800-1</th>
<th>2400-1</th>
<th>3000-1</th>
<th>3570-1</th>
<th>3000-2</th>
<th>3570-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silo Total Cubic Feet / Cubic Meters</td>
<td>1300 / 39</td>
<td>1575 / 47</td>
<td>1800 / 54</td>
<td>2400 / 72</td>
<td>3000 / 90</td>
<td>3570 / 107</td>
<td>3000 / 90</td>
<td>3570 / 107</td>
</tr>
<tr>
<td>Cubic Feet per CMPT</td>
<td>1300 / 39</td>
<td>1575 / 47</td>
<td>1800 / 54</td>
<td>2400 / 72</td>
<td>3000 / 90</td>
<td>3570 / 107</td>
<td>1500 / 45</td>
<td>1785 / 54</td>
</tr>
<tr>
<td>Tons Cement @ 94 # (PCF) / Tonnes</td>
<td>61 / 55</td>
<td>74 / 67</td>
<td>85 / 77</td>
<td>112 / 101</td>
<td>141 / 127</td>
<td>167 / 150</td>
<td>70 / 63 x CMPT</td>
<td>84 / 76 x CMPT</td>
</tr>
<tr>
<td>Shell Length / mm</td>
<td>12’ / 3658</td>
<td>15’ / 4572</td>
<td>17’ 6” / 5334</td>
<td>24’ / 7315</td>
<td>31’ / 9449</td>
<td>36’ / 10,973</td>
<td>31’ / 9449</td>
<td>36’ / 10,973</td>
</tr>
</tbody>
</table>

Note: Volume calculations are water-level. Tonnage based upon 100 pounds/cubic foot (90 tonnes) of material.
**Concrete Batch Plants**

**Stack-Up Gravity Feed System**

**Model:** SB Series

**Features:**

- Versatile modular design for ease of erection
- State-of-the-art aggregate and cement batchers directly over the mixer for direct feeding
- Large overhead storage of materials in the aggregate and the cement bins
- Pre-assembled and wired at the factory for quick and easy erection
- Turn-head feed assembly from three or four aggregate bin compartments and up to two cement silo compartments

<table>
<thead>
<tr>
<th>Cement Capacities</th>
<th>Aggregate Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td><strong>Cubic Feet / Cubic Meters</strong></td>
</tr>
<tr>
<td>SB</td>
<td>2661 / 80</td>
</tr>
<tr>
<td>SBL</td>
<td>2800 / 84</td>
</tr>
<tr>
<td>SBLL</td>
<td>3514 / 105</td>
</tr>
</tbody>
</table>

**Plant Elevation**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Mixer @ Grade / mm</strong></th>
<th><strong>Mixer @ 10’ 6” (3200 mm)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SB</td>
<td>48’ 7” / 14,808</td>
<td>59’ 1” / 18,009</td>
</tr>
<tr>
<td>SBL</td>
<td>49’ 9” / 15,164</td>
<td>60’ 4” / 18,313</td>
</tr>
<tr>
<td>SBLL</td>
<td>55’ 9” / 16,993</td>
<td>66’ 3” / 20,193</td>
</tr>
</tbody>
</table>

Note: Volume calculations are water-level. Tonnage based upon 100 pounds/cubic foot (90 tonnes) of material

**Unicast**

**Model:** UC-25-2

**Features:**

- Wet and dry cast capabilities
- Unitized, two-piece construction for fast erection
- Pre-assembled and wired at the factory for quick and easy erection
- Besser batching controls includes one cement, two aggregates, four admixes, up to 50 mix designs
- 2” Badger Turbo water meter
- 25 ton, 2 compartment aggregate bin, features decumulative weighing, load cell system, 1/4” plate construction
- 18” wide transfer conveyor, rated at 220 tons per hour at 300 feet per minute
- 44 ton cement silo equipped with high bin signal, A36 plate construction, DCS-260 rooftop dust collector, 1.2 cubic yard batcher and 6” screw conveyor
- Quick mixing using either a twin shaft or planetary mixer equipped with a DCS-260 dust collector that includes a collecting pod and 5 hp blower package
- Radial stacker bin feed conveyor optional

For better viewing, all guards, safety devices and signs are not necessarily shown. Some of the equipment shown or described throughout this brochure is available at extra cost. Since the time of printing, some of the information in this brochure may have been updated; ask your Besser sales representative for details.

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