

## 160 M<sup>3</sup>/H Capacity Stationary Wet Batching Plant

### SBS-160

#### TECHNICAL DESCRIPTION

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**KAWE reserve the right to make technical modifications without prior notice**

## 1.AGGREGATE BUNKER

### 1.1.- Bunker : 1 Unit

- Number of compartments : 5
- Capacity of each unit : 5X26 m<sup>3</sup>
- Total Capacity : 130 m<sup>3</sup>
- Loading Width : 3500 mm. x 3500 mm.
- Material Thickness : St 37.2, 5 – 6 mm.
- Vibro Motor : 2x0,5 kW
- Aggregate bunker is designed and manufactured to operate under heavy working conditions for long time.
- Warning system when material runs out or accidental interruption, Acoustics type.

### 1.2.- Weighing Belt Conveyor : 1 Unit

- Rubber Dimensions : min. 13x 1200 mm (4-layer cord fabric)
- Installed Power : 37 kW
- Belt Speed : 1.9 m/sec
- Diameter of Tension Drum : 300 mm.
- Load cell : 5000 kg 4 Unit
- Diameter of Driving Drum : 320 mm., covered with 10 mm rubber
- Bearings : SNA series with lubrication greaser
- Weighing bunker vibrators : 2 Units 300/3, MVE
- Slider : With weighed and "V" shape
- Belt of switch : 4 units
- Safety switch for belt : 2 units
- Sensor for break off of belt : 1 unit
- Emergency Stop button : 1 unit
- Maintenance-free closed type bearing group for rolls
- Carrying rollers, 89 x 400 mm. Group of 3 Each.

## 2. MIXING TOWER

### 2.1.- Mixer Feeding Belt Conveyor: : 1 Unit

Dimensions	: 1000 mm x22,5m.
1. Bearings	: SNA series with lubrication greaser
2. Drums	: Driving drum covered with 10 mm rubber
Motor-reduction	: 55 kW,
Belt off switch	: 4 units
Safety switch for belt	: 2 units
Sensor for break off of belt	: 1 unit

Covered with galvanized plates and one side having traveling platform.

### 2.2.- Aggregate collecting bunker : 1 Unit

Capacity	: 5 m <sup>3</sup>
Valve	: Sliding valve with pneumatic operated
Vibro Motor	: MVE200/3 0,3 kW

### 2.3.- Cement Weighing Hopper : 1 Unit

Weighing Capacity	: 2000 kg
Load Cell	: 3X1000 kg
Pneumatic Valve	: WAM V1-FS300S
Diameter	: 300 mm
Driver	: CP 101
Vibrator	: 1 unit , MVE60/3 0,25 kW

### 2.4.- Water Weighing Hopper : 1 Unit

Weighing Capacity	: 1000 kg
Load Cell	: 3 X 1000 kg
Pneumatic Valve	: 250 mm
Driver	: CP 101

### 2.5.- Additive System : 2 Units

Capacity	: 45 kg
Load Cell	: 100kg
Pneumatic Valve	: 1"

**2.6.- Water Equipment : 1 Set**

- Piping installation on the plant
- Pneumatic valve : 3 "
- Pneumatic valve : 1"
- High pressure water pump.

**2.7.- Twinshaft Mixer : 1 Set**

- Loading Capacity : 6000 lt.
- Fresh Concrete Capacity : 5000 lt
- Compacted Concrete Capacity : 4000 lt
- Motor-Gear Box Power : 2 x 75 kW
- Linings : HB500 - 20 mm
- Water distributor
- Manuel emergency pump for emergency discharge
- Hydraulic discharge cover
- Automatic central lubrication system
- Safety switch of the maintenance door

**2.8. – Air Compressor : 1 Unit**

- Capacity : 1100 lt/m
- Installed Power : min. 7,5 kW
- Capacity of depot : 350 lt
- Operating Pressure : 8 Bar
- Pipe and fittings equipments

**2.9.- Control Cabinet : 1 Unit**

Dimension : 2,4 x 3 x 2,5 m.

Air conditioner is included.

Outer wall of the cabin is made from 0,5 mm painted galvanized material and inner wall is made from 12 mm laminated chipboard. Isolated side walls are made from 50 mm polyester hard blister and ceiling is made from 80 mm glass wool. Windows are PVC and ISICAM (heat isolated double glass). Electrical installation is imbedded.

Fittings, socket and switches are exist in the cabin.

## 2.10.- Command And Control (SCADA) System

- Command and control operations are done by PLC. At the maximum capacity high weighing and dosage sensitivity can be achieved by advanced PLC programs and error control algorithms.
- MCC and command panel is manufactured up to heavy operating conditions and has all kinds of electrical protection.
- All kinds of parameter setup, receipt and calibration operations can be done on operator's panel screen; process, production and failure information can be taken.
- Manuel and automatic operation can be done on illuminated mimic diagram. Voltage and current values can be followed by digital indicators on the panel.
- All command and control operations, all kind of reporting, failure indications and etc are done by PC Monitor and animation support with PC, printer, UPS and SCADA software.
- Desired amount of receipt can be prepared, customer information can be entered and production information of at least past-one year can be shown.

### **OPTION:**

## 3. - CEMENT UNIT

### 3.1.- Cement Silo : 2 Units

Capacity :100 t/unit  
 Plate thickness :4-6 mm  
 Filling pipe :4 inches  
 Ladder , manhole, platform and parapets are included

### 3.2.- Equipments of Cement Silo : 2 Sets

Silo pressure valve : WAM  
 Level indicators : WAM ILTC 220 (top and bottom)  
 Fluidisation nozzle : 6 Units/Silo U025 WAM  
 Mechanical valve : WAM-V2FS300S  
 FR Filter regulator, ½" 220 volt, solenoid valve, Pneumatic pipe installation

### 3.3.- Cement Screw Conveyor : 2 Sets

Dimension :ø 323 x 11500 mm  
 Motor power : 18,5 kW  
 Capacity : 90 ton/hour  
 Mark : WAM  
 Universal input

### 3.4.- Silo-Top Filter : 2 Units

Filter : 24 m2