

# M25 CONCRETE BATCHING PLANT

## Cost Effective Mobile Batching Plant

M25 mobile concrete mixing plant is a new type of trailerable mobile concrete mixing plant. It is your best choice for mobile operations in various constructions such as highway, railway, architecture, municipal engineering, bridge, port and hydropower station.



**Productivity:**  
**25 CBM/Hour**

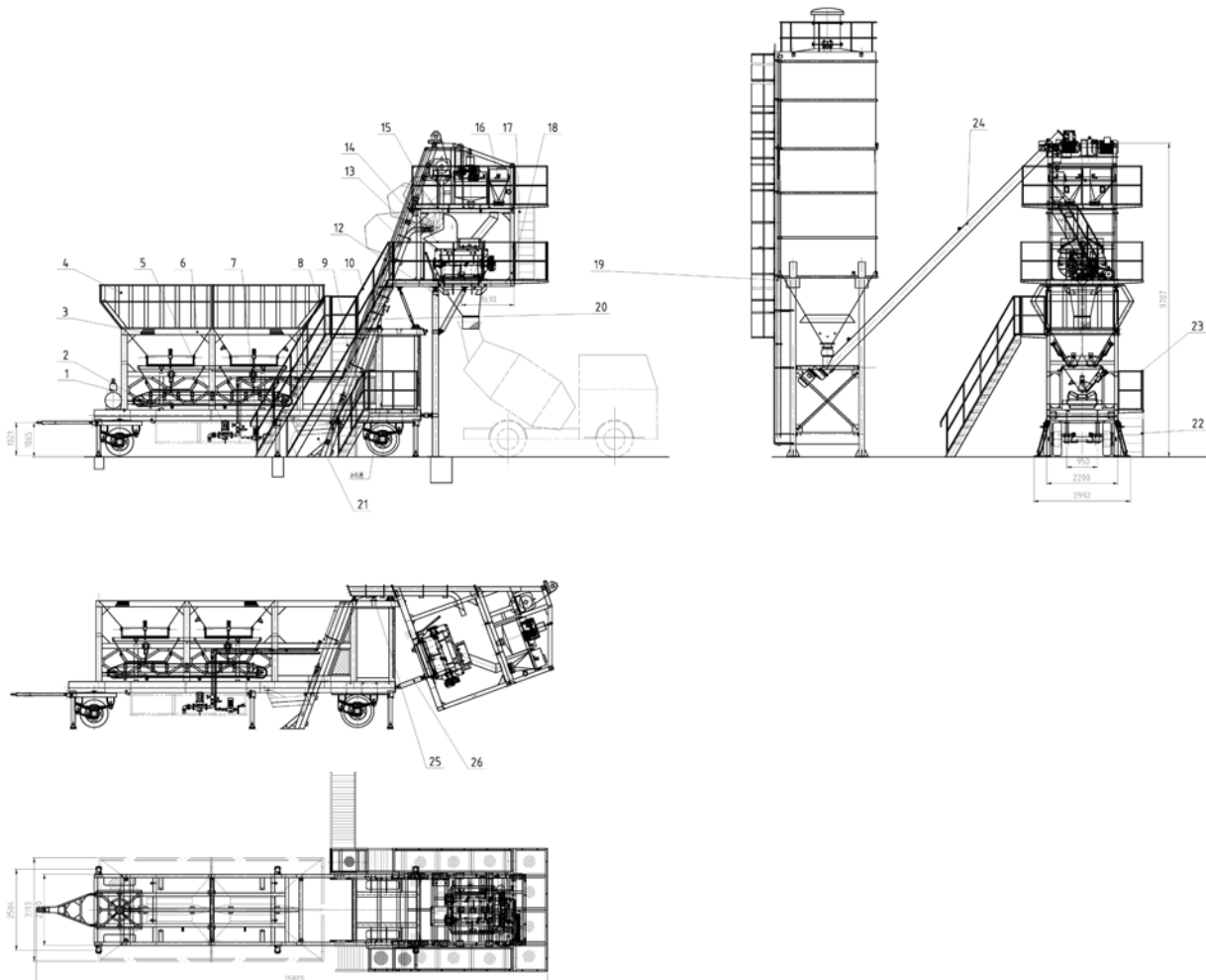
Its structure is unique with novelty to combine various functions of collecting, weighing, mixing and conveying into a trailer unit for excellent mobility. We have absorbed the worldwide advanced technologies on its design to ensure accurate and reliable weighing, even and effective mixing, and fast conveying. It is highly reliable with easy operation and transportation. It is capable of mixing dry hardness, half dry hardness, plastic concrete. Besides, it is simple in operation, mobile in site-transfer and excellent in reliability. May be moved anywhere on hauling, may be ready for using on settling down.



## Parameter Table

No.	Item	Value
1	Productivity	25m <sup>3</sup> /h
2	Control Method	Automatic & Manual
3	Mixer	JS500
4	Discharging Height	3800mm
5	Aggregate weighing accuracy	± 2
7	Powder weighing accuracy	± 1
9	Water weighing accuracy	± 1
11	Additive weighing accuracy	± 1
12	Power	45KW
13	Voltage	380V/50HZ
14	Total Weight	38 Ton

## Layout



## Mixing System

Model: JS500

Type: twin-shaft forced

Charging Capacity: 800L

Discharging Capacity: 500L

Discharging Height: 3800mm

Maximum diameter of aggregate: 60mm

Motor power: 18.5KW

Planet Gear Reducer: ZQ650-20.49-II



## Aggregate Batching and Weighing System

The aggregate batching and weighing system is composed of aggregate bins, the frame, weighing hopper, the aggregate conveyor, sensors and so on.

### **Aggregate Hopper**

Volume: 5m<sup>3</sup>×4

Discharging gate: 4 units

Cylinder: SCF-80×200-CA-Y, 2 units

Cylinder: SCF-80×250-CA-Y, 2 units

### **Weighing Hopper**

Volume: 1800L

Measuring Method: Accumulating measuring

Sensors: 2000Kg x 3

Measuring Accuracy: ±2%

### **Belt Conveyor**

Belt Dimension: 650mm

Belt Speed: 2m/s

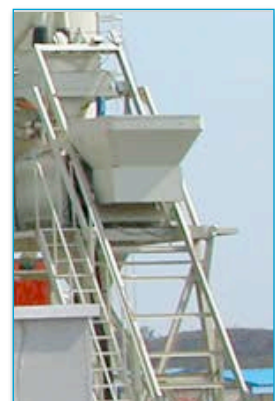
### **Electric Drum: 5.5KW**



## Hoisting System

Elevating bucket volume: 1600L

The power of the electric driving drum: 11Kw (BWY33-23-18.5)



### Cement Weighing System

The cement or weighing system is composed of fly ash weighing hopper, pneumatic butterfly valve and sensors.

#### **Cement Weighing Hopper**

Volume: 450L

Weighing range: 0~450 kg

Weighing accuracy:  $\pm 1\%$

**Sensors: 450 kg  $\times$  3**

**Pneumatic butterfly valve: BV1FS250**



### Water Weighing System

The water weighing system is composed of self-built pool, water pump, water weighing hopper and electromagnetic valve and so on.

Water Pump: QY40-16-3, motor Power: 3 kW

Water feeding ball valve: 671X-10 DN32

Weighing scale volume: 250L

Sensors: LC-E-V-300kg $\times$ 3

Weighing accuracy:  $\pm 1\%$



### Additive Weighing System

The additive weighing system is composed of additive box, additive scale, water pump, sensors and so on.

Mixing additive pump: GISG25-125: Power: 0.75 kW

Three way pneumatic ball valve: Q615F-16P-DN25

Additive scale volume: 25L

The additive box volume: 2m<sup>3</sup>

Weighing accuracy:  $\pm 1\%$

Sensor: LC-C-0.1T

Pneumatic butterfly valve: DN50



### Pneumatic Discharging System

The pneumatic discharging system is composed of air compressor, cylinder, electromagnetic valve and pneumatic components.

Air compressor: V-0.67/7, 4kW

Electromagnetic valve

Cylinder

The gas source processing components





## **Electric Control System**

The electric control system is composed of host computer, display, printer, weighing instrument, telecommunication cable and etc.

- \* The operation is integrated with management which is easy and convenient to operate.
- \* The batching system is controlled by the computer.
- \* The operating data of the mixing plant can be saved for more than ten years for the convenience of setting management.
- \* The mixing formula which has dozens of kinds is displayed in digital figures. It is easy to choose.
- \* It has the function of error analyzing and automatic testing functions. Under the condition of departing from the automatic control, the manual operating system can finish the control of the mixing plant such as batching, mixing and discharging.
- \* The strong current is integrated with the weak current, which simplify the installation and make the maintenance much more convenient.

