



Mobile Concrete Batch Plant



ConStar 1500



**Quality Engineered
Excellence Since 1911**

Mobile Concrete Batch Plant

With a production capacity of up to 50m³/h, the ConStar 1500 fully mobile concrete batching plant meets all the requirements for small to medium size projects where there is a need for ready-mix or pre-cast concrete produced to high quality standards.

Semi-trailer towing is easily achieved as the integral control cabin hinges upwards within the main structure for transport. The chassis mounted 35m³ cement silo can be supplemented with either vertical or mobile horizontal silos giving additional capacity and/or greater mix design.

Controls on the ConStar 1500 are easy to use, designed to ensure high levels of accuracy, batch repeatability and mix consistency which are vital for the production of high quality, high strength concrete.



Cement Weigh Hopper

Mounted above the pan mixer, the cement weigh hopper features two 350kg capacity hoppers mounted on three load cells for accurate weighing.

Water Weigh Hopper

The 250kg capacity water hopper suspended on load cells is supplied by a 2 stage water delivery system and mounted above the mixer to ensure higher accuracy.

Retractable Screws

Two external delivery screws feed into the cement weigh hopper and retract back on rollers for transport.

Access & Walkways

The extensive access & maintenance platforms are provided to mixer level and are easily removed for transportation.

Feed Hopper

The feed hopper has four compartments for different aggregate sizes, each compartment holding 11m³ of material with bolted hopper extensions which are removed for transport. Vibrators are mounted on two of the hoppers to prevent build up of fine material. Each hopper discharges via a pneumatically controlled discharge gate onto the aggregate weigh conveyor.



Pan Mixer

The high quality pan mixer features hard wearing abrasive resistant liner plates, paddle arms and tips. The arms are spring loaded and adjustable to compensate for wear and the paddle tips can be adjusted to increase or decrease the angle. The gearbox and motor are centrally located. Dry mix and twin shaft mixer options are available.

Control Cabin

The control cabin is pre-wired and fully tested prior to despatch and forms part of the main structure. The Constar PLC based control system gives fast, accurate measurement of mix ingredients, as well as monitoring dynamic aspects of the plant for continuous and safe operation.

Transfer Conveyor

Aggregates are transferred to the mixer via an 800mm wide chevron belt conveyor.

Cement Silo

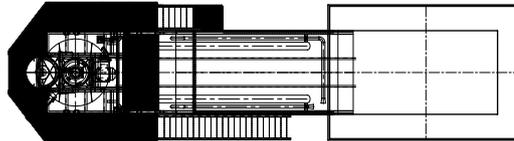
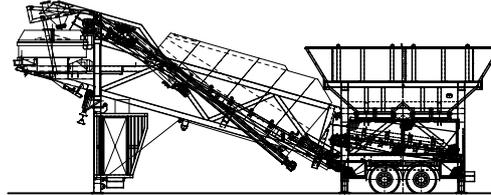
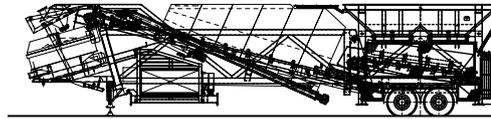
The integral, chassis mounted 35m³ capacity cement silo mounted above the transfer conveyor has two discharge troughs each with high and low level indicators. Cement is delivered to the weigh hoppers via two internally fitted screws.

Aggregate Weigh Conveyor

Suspended on load cells, the 800mm wide troughed weigh conveyor has a combined volumetric weighing capacity of 1.5m³ from all hoppers.

Technical Specifications

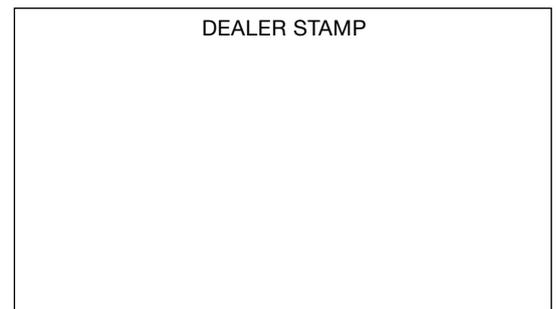
Specification			
	Units		
Capacity			
Output Capacity	m ³ / h		50
Mixer			
Dry Capacity	L		1,500
Compacted Concrete Capacity	L		1,000
Mixer Drive	kW		37
Aggregate Hopper			
Compartments			4
Compartment Capacity	m ³		4 x 11
Total Feed Capacity	m ³		44
Aggregate Weigh Conveyor			
Length	m		4.15
Belt Width	mm		800
Conveyor Drive	kW		11
Weighing Capacity	m ³		1.5
Transfer Conveyor			
Length	m		10.30
Belt Width	mm		800
Conveyor Drive	kW		11
Cement Silo			
Capacity	t		35
Discharge Screws	kW		2 x 11
Cement Feed Screws	kW		2 x 7.5
Cement Weigh Hoppers Capacity	kg		2 x 350
Water Weigh Hopper Capacity	kg		300
Additive Weigh Hopper Capacity	kg		20
Compressor			
Compressor Power	kW		5.5
Pressure	bar		6.5
Control Cabin			
Dimensions	m		1.5 x 2.4



Transport Dimensions			
	Units		
Length	mm		16,900
Width	mm		3,000
Height	mm		4,000
Total Weight	t		34
Axle Loading	t		18
King Pin	t		16

Benefits

- Fully mobile road towable unit.
- Installed and operational within 4 hours.
- Minimal site preparation required.
- Extensive access & maintenance platforms.
- Integral control cabin folds up for transport.
- Factory pre-wired and fully tested.
- Fully automatic control system.
- Multi recipe for all concrete specs.



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