

## **ATLAS MOBILE CONCRETE BATCHING PLANT MODEL AMCB 45 (TWIN SHAFT MIXER) Capacity 45 m<sup>3</sup>/hr.**

### **FOUR BIN FEEDER:**

All the feeder bins have pneumatic operated gates.

All the four (2 x 2) bins combined have a storage capacity of 30 m<sup>3</sup>.

The gates are radial type for coarse/ fine discharge.

Sand bin is also provided with discharge.

### **GATHERING CUM DISCHARGE CONVEYOR:**

Aggregates are discharged into gathering cum discharge conveyor which is suspended on 4 load cells. As soon as the desired recipe accumulates, gathering conveyor discharges the mix on to the mixing unit. Aggregate scale is of capacity 2500 kgs.

Gathering cum discharge conveyor is provided with idler rollers and return rollers.

### **WEIGHING SYSTEMS:**

- Cement weighing hopper is mounted on 3 load cells with pneumatic operated butterfly valve for discharge. Cement weighing hopper capacity 300 kg is provided with pneumatic vibrator and two inlets for two screw conveyors (WAM-Italy). An optional 18 Tons inbuilt SILO is also available.
- Water tank of capacity 200 liters supported on two load cells with pneumatic operated butterfly valve and it has gate with rubber gasket at the bottom.
- Additives tank is supported on one load cell comprise of admixture flask of capacity 10 liters with feeding pump.

Cement is fed from SILO / Cement hopper to the cement weighing hopper.

### **TWIN SHAFT TYPE MIXTURE:**

Twin Shaft type concrete mixtures manufactured by ATLAS ensure proper mixing and maximum output.

Twin Shaft type mixing unit comes in capacity of 1250/750 liters and is fixed on the basic structure of the plant. Mixer having 12 (6+6) pedal arms and shell is reinforced with replaceable high wear resistance NI hard liners. The aggregates, cement, water and additives are discharged to the Twin Shaft Mixer.

Only after proper and homogenous mixing, the batch is ready to be discharged by the pneumatic system.

### **COMPUTERIZED PANEL WITH DIGITAL DISPLAY:**

Fully computerized cabin with SCADA (optional) / PLC based control panel are a standard on ATLAS plant.

Software which is very user friendly ensures top notch performance.

Proxy switches for each control panel.

Display of the entire process of control parameters.

Provision for printing entire data like-Mix Proportion, Batch Weigh, Total No. of Batches, Sub Total, Gross Total, etc.

Preset batch controls the number of batches for Transit Mixer.

Provision to store, edit production details, and mix proportions up to 99 recipes.

Auto and manual control.

### **CONTROL CABIN:**

Cabin is fabricated with M. S. Structured frame and insulated by wood. Strategic location of seat ensures complete view of the plant.

### Technical Specification

Plant Capacity	UNIT	AMCB 20	AMCB 30	AMCB 45	AMCB 60
Type		Mobile	Mobile	Mobile	Mobile
Compacted Concrete	m <sup>3</sup> /hr.	20	30	45	60
<b>Mixer Specification</b>					
Type of Mixer		Twin shaft	Twin shaft	Twin shaft	Twin shaft
Mixer Capacity	m <sup>3</sup>	0.35	0.5	0.75	1.0
Input / Output Capacity	Liter	500/350	750/500	1250/750	1500/1000
Motor Power	HP	25	30	40	60
<b>Aggregate Bin</b>					
No. of Compartments	No.	2 x 2	2 x 2	2 x 2	2 x 2
Capacity of Each Compartment	m <sup>3</sup>	2.5	4.5	7.5	10
Weighing System		Electronic digital	Electronic digital	Electronic digital	Electronic digital
Aggregate Scale	Kg	1000	1250	2500	3000
Cement Scale	Kg	200	250	300	450
Water Scale	Liter	150	200	200	300
Additive Scale	Kg	10	10	10	15
<b>Water Pump</b>					
Connected Power	HP	2	3	5	5
<b>Cement Screw Conveyor</b>					
Diameter	mm	219	219	219	219
Connected Power	HP	12.5	12.5	12.5	12.5
<b>Air Compressor</b>					
Connected Power	HP	3	3	5	7.5
Control Panel		PLC based with auto and manual option	PLC based with auto and manual option	PLC based with auto and manual option	PLC based with auto and manual option
Total Connected Load	HP	55	67	78.5	110

Due to continuous product improvement, specifications are subject to change without notice.

*With Atlas's policy of constant upgradation of products, specifications are subject to change without prior notice.*

*Accessories shown are optional and not a part of standard supply.*