

## **ATLAS STATIONARY CONCRETE BATCHING PLANT MODEL ASCB-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 bins combined have a storage capacity of 45 m<sup>3</sup>.

The gates are radial type for coarse/ fine discharge.

Sand bin is also provided with discharge.

### **WEIGHING CONVEYOR:**

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

Weighing conveyor is provided with idler rollers and return rollers.

### **DISCHARGE CONVEYOR:**

Discharge conveyor is “chevron” type to minimize the plant installation area.

Discharge conveyor is provided with idler rollers and return rollers.

### **WEIGHING SYSTEM:**

Weighing hopper is mounted on 3 load cells with pneumatic operated butterfly valve for discharge. Cement weighing hopper of capacity 600 kg is provided with pneumatic vibrator and two inlets for screw conveyors (WAM-Italy).

Water weighing hopper is mounted on 2 load cells with pneumatic operated butterfly valve for discharge. Water weighing hopper of capacity 300 liters is provided.

Additives comprise of admixture flask of capacity 10 liters with feeding pump.

Cement is fed from SILO 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

Model	UNIT	ASCB 30	ASCB 45	ASCB 60	ASCB 75	ASCB 90
Type		Stationary	Stationary	Stationary	Stationary	Stationary
Compacted Concrete	m <sup>3</sup> /hr.	30	45	60	75	90
<b>Mixer Specification</b>						
Type of Mixer		Twin shaft	Twin shaft	Twin shaft	Twin shaft	Twin shaft
Mixer Capacity	m <sup>3</sup>	0.5	0.75	1.0	1.5	2
Input / Output Capacity	Liter	750/500	1250/750	1500/1000	2250/1500	3000/2000
Motor Power	HP	30/25	40/40	60/60	80/80	100/100
<b>Aggregate Bin</b>						
No. of Compartments	No.	4	4	4		4
Capacity of Each Compartment	m <sup>3</sup>	10	10	15	15	20
Weighing System		Electronic digital	Electronic digital	Electronic digital	Electronic digital	Electronic digital
Aggregate Scale	Kg	1250	2500	3000	3750	5000
Cement Scale	Kg	300	600	900	1250	1500
Water Scale	Liter	150	300	450	600	800
Additive Scale	Kg	10	10	20	20	20
<b>Water Pump</b>						
Connected Power	HP	3	3	5	5	7.5
<b>Cement Screw Conveyor</b>						
Diameter	mm	219	219	219	219	273
Conneted Power	HP	12.5	12.5	12.5	12.5	20
<b>Air Compressor</b>						
Connected Power	HP	3	5	7.5	7.5	10
Control Panel		PLC based with auto & manual option	PLC based with auto & manual option	PLC based with auto & manual option	PLC based with auto & manual option	PLC based with auto & manual option
Total Connected Load	HP	74	96	130	161	193

Plants above 90 m<sup>3</sup>/hr. are tailor made.

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.*