CONCRETE PLANT

STATIONARY PLANT VARIANTS:

ASCB 30 (30 m3/hr.), ASCB 45 (45 m3/hr.), ASCB 60 (60 m3/hr.), ASCB 75 (75 m3/hr.), ASCB 90 (90 m3/hr.), ASCB 120 (120 m3/hr.), ASCB 150 (150 m3/hr.), ASCB 200 (200 m3/hr.). Capacities above 200 m3/hr. are tailor made.

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ATLAS INDUSTRIES

ATLAS is one of INDIA'S leading manufacturers of road and civil construction machinery. We specialize in delivering professional-grade solutions for customers.
ATLAS INDUSTRIES is an ISO 9001 : 2008 company engaged in design, development, manufacturing, marketing and servicing a complete line of Asphalt Drum Mix Plants, Wet Mix Macadam Plants, Concrete Batch Mix Plants, Bitumen Pressure Distributors and Mechanical Brooms.

WHEN YOU WORK WITH US, YOU CAN EXPECT:
PROFESSIONALISM: We're dedicated to providing exceptional service to our clients by being responsive, effective, and reliable.
PERSISTENCE: We do things the right way, even when it's the hard way. We'll always seek to do what's best for you and your company.
PRECISION: We're proud of every job we do.
EXPERIENCE: With 30+ years of experience in manufacturing road construction equipments we know exactly what we're doing.
QUALITY: The best quality products in the business.

AGGREGATE FEEDER

Four bin aggregate feeder comes built on a rugged structure. The open close mechanism of all the bin gates is by pneumatic cylinders. Each bin is provided with one/two open-close gates and vibratory motor(s) for quick and efficient materials discharge. Air compressor is provided with the feeder to power the pneumatics. Junction box holds all the controls of the feeder.

JUNCTION BOX

PNEUMATIC CYLINDER

VIBRATORY MOTOR

FEEDER OPEN-CLOSE GATE TYPE 1 AND 2

AIR COMPRESSOR

VIBRATORY MOTOR

GATHERING SUSPENDED ON LOAD CELLS

GATHERING CONVEYOR

A gathering conveyor is suspended on four load cells of suitable capacity. The task of the gathering conveyor is to weigh and transfer aggregates collectively to the slinger conveyor belt.

Gathering conveyor is equipped with vibrating motor. below sand bin to allow easy flow of materials.

SLINGER CONVEYOR

Slinger conveyor is “chevron type” to minimize the plant installation area.
Slinger conveyor is provided with idler rollers and return rollers.

WEIGHING SYSTEM

Cement weighing hopper is mounted on 3 load cells. A pneumatic operated butterfly valve is fitted for discharge. The cement weighing hopper is provided with pneumatic vibrator and two inlets for two screw conveyors. Water tank is supported on single load cell with pneumatic operated butterfly valve and its gate is with rubber gasket at the bottom. Admixture flask of standard capacity is fitted with feeding pump. Cement is fed from SILO to the cement weighing hopper.

BUTTERFLY VALVE

LOAD CELL

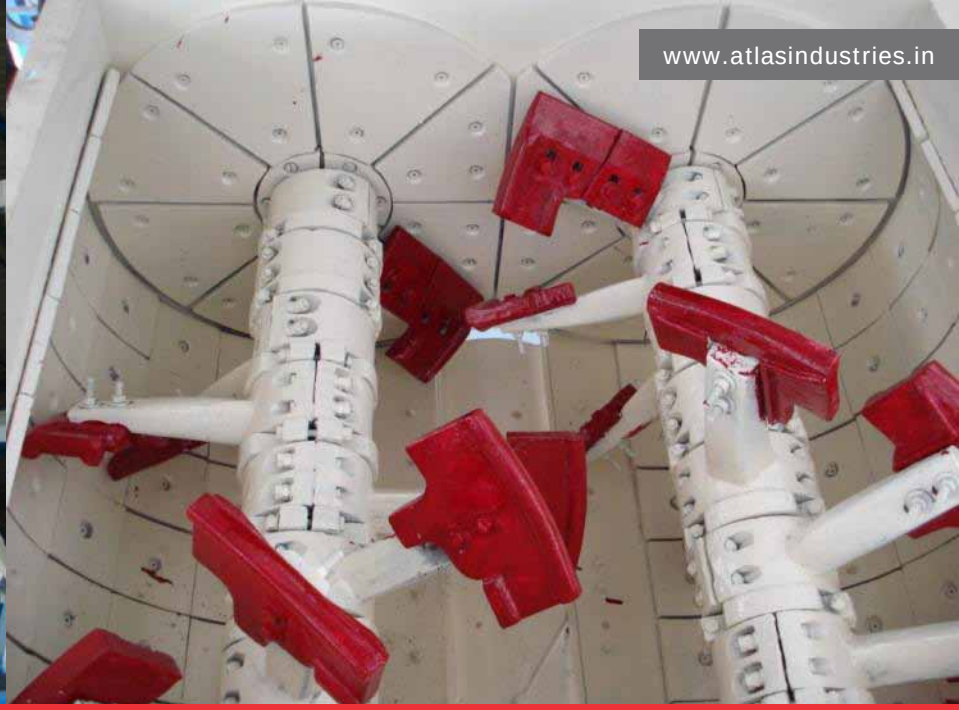
RUBBER GASKET

ADDITIVE TANK

PNEUMATIC VIBRATOR

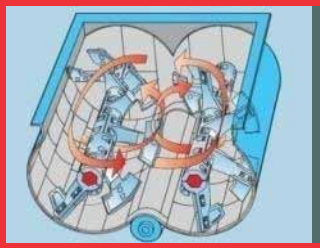
Long term
low cost
production

Rapid homogenous
mixing



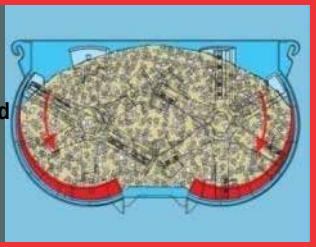
TWIN SHAFT MIXER

SPIRAL MIXING SHAFTS
Our mixers are equipped with a high-quality hexagonal shaft with optimal torsional and flexural strength. The hexagonal shaft makes it possible to arrange the mixing arms in a spiral shape, thus achieving excellent mixing results.

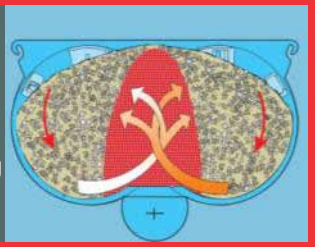


INTENSIVE MIXING MOTION
The arrangement of the mixing arms on a hexagonal mixing shaft forms an interrupted spiral. The superposition of axial and radial movements produces a three-dimensional circulating path. This design results in very short mixing time with energy savings.

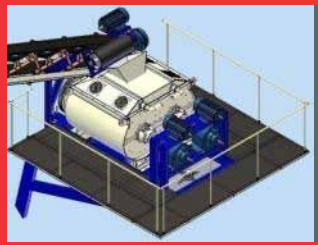
FEW WEAR ZONES
Only about 30 % of one mixing tool rotation is exposed to wear on the mixer trough. High mixing efficiency is achieved at low speed of the mixing tools. This has a beneficial effect on the service life. As a result of its design, wear in this type of mixer is considerably reduced.



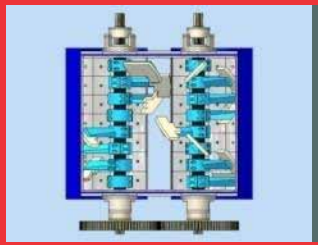
TURBULENT MIXING ZONE
The specific motion of the mixer, allows a crossover of two mixing circles and a high degree of turbulence is created. Thus, the energy introduced is efficiently converted into highly turbulent relative motion resulting in rapid homogeneity. This also ensures most effective break down of cement particles.



TWIN SHAFT MIXER

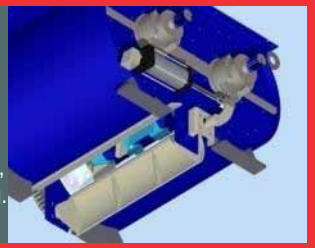


COMPACT DESIGN
The compact design has the advantage that the Twin-Shaft Mixer takes up only a small amount of floor space in your plant. This reduces capital expenditures and is also helpful when retrofitting existing concrete batching plants.



SHAFT BEARINGS
The shaft bearings are intentionally separated from the shaft sealing. The slurry coming out of the shaft sealing will not damage the shaft bearings. Also the bearings and sealing will be easily accessible to maintain.

DISCHARGE DOOR
The opening and closing of discharge door is operated by one/two/four pneumatic cylinders depending on the size of the mixer. The discharge door is through the entire length of the mixer, thus when the door opens, concrete discharge is fast and without clogging.



LINERS
Our twin shaft mixers are fitted with Ni liners. These liners are designed for special concrete mixing application or for any other application. They help in reducing wear and tear. Thus reducing the overall maintenance cost.

MIXING ARMS
The mixing arms of twin shaft mixers are made up of steel casting in a streamlined design. The arm profile will promote horizontal transport of the mixture.

PLANETARY GEAR REDUCERS
The two heavy-duty planetary gear reducers are custom designed for twin shaft mixer. They have an excellent efficiency.
Even shocks from sudden feeding or full-load restart can be easily absorbed.

GREASING POINTS
Our mixers are supplied with greasing points at different points. Thus applying grease and maintaining the moving parts is easy by use of a hand grease gun.

HIGH PRESSURE CLEANING
A water pipe with nozzle is supplied to clean the mixer at the end of day.

WATER SPRAY
Water pipe is designed in such a way that water is distributed uniformly during mixing thus reducing the cement dust in the mixer.

MIXER COVER
Mixer cover with maintenance doors is Provided. Thus easing the cleaning and maintenance part.

CEMENT
STORAGE & TRANSFER

We have two options for cement storage and transfer:

- Cement silo's
- 30 bag cement hopper.

CEMENT STORAGE SILO – 50 T, 100 T, 150 T

30 BAG CAPACITY CEMENT HOPPER WITH WAM (ITALY) MAKE SCREW CONVEYOR

CONTROL PANEL

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

Software which is very user friendly ensures top notch performance.

Proxy switches for each controls. 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 modes.

EASY TO USE PANEL

CONTROL CABIN

Cabin is fabricated with M. S. structured frame and insulated by wood.

Strategic location of seat ensures complete view of the plant.

CABIN ENSURES FULL VIEW OF PLANT

ASCB SERIES LAYOUT

WORLDWIDE KNOWN AND RELIABLE COMPONENTS ON ATLAS CONCRETE BATCHING PLANTS.

Ingersoll Rand
Inspiring Progress™

INDO-AIR
Compressors Pvt. Ltd.
UTILITY AIR SOLUTIONS

SIEMENS

ABB

Kirloskar

PREMIUM

WAMGROUP®

BONFIGLIOLI
Power & Control Solutions

PBL

DUNLOP

brevini
power
transmission

JANATICS
Pneumatic
The Industrial Automation People

SICOMA

BHS
SONTHOFEN

Schneider
Electric

ROTEX

MOBILE PLANTS

MOBILE CONCRETE BATCHING PLANT WITH IN-BUILT SILO

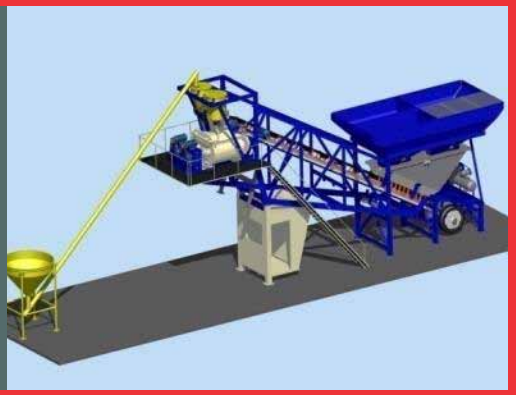
This design mobile plant is available in the capacities:
20 m3/hr. I 30 m3/hr. I 45 m3/hr. I 60 m3/hr.

This plant is ideal for contractors who get cement by bulkers as this plant comes with an inbuilt SILO of 18 Tons capacity.
In-built SILO will aid easy transportation and quick assembling and disassembling of the plant.
Plant comes with panel inside a foldable control cabin.
Only one conveyor belt reduces maintenance.
Latest mixing device – Twin shaft mixer

MOBILE CONCRETE BATCHING PLANT WITH SEPARATE SILO HOPPER

This design mobile plant is available in the capacities:
20 m3/hr. I 30 m3/hr. I 45 m3/hr. I 60 m3/hr.

This plant is ideal for contractors who get cement by bag as this plant comes with a separate SILO hopper of 30 bags (1500 kgs.) capacity.
Plant comes with panel inside a foldable control cabin.
Only one conveyor belt reduces maintenance.
Latest mixing device – Twin shaft mixer



MOBILE CONCRETE BATCHING PLANT WITH REVERSIBLE DRUM TYPE MIXER

This design mobile plant is available in the capacities:
10 m3/hr. I 15 m3/hr. I 20 m3/hr. I 25 m3/hr.

Ideal low-cost batching plant.
In-built control panel.

ATLAS INDUSTRIES

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