

PENTA

**ALLEN BUILDWELL
PRIVATE LIMITED**

Serving India since 1995



SALIENT FEATURES

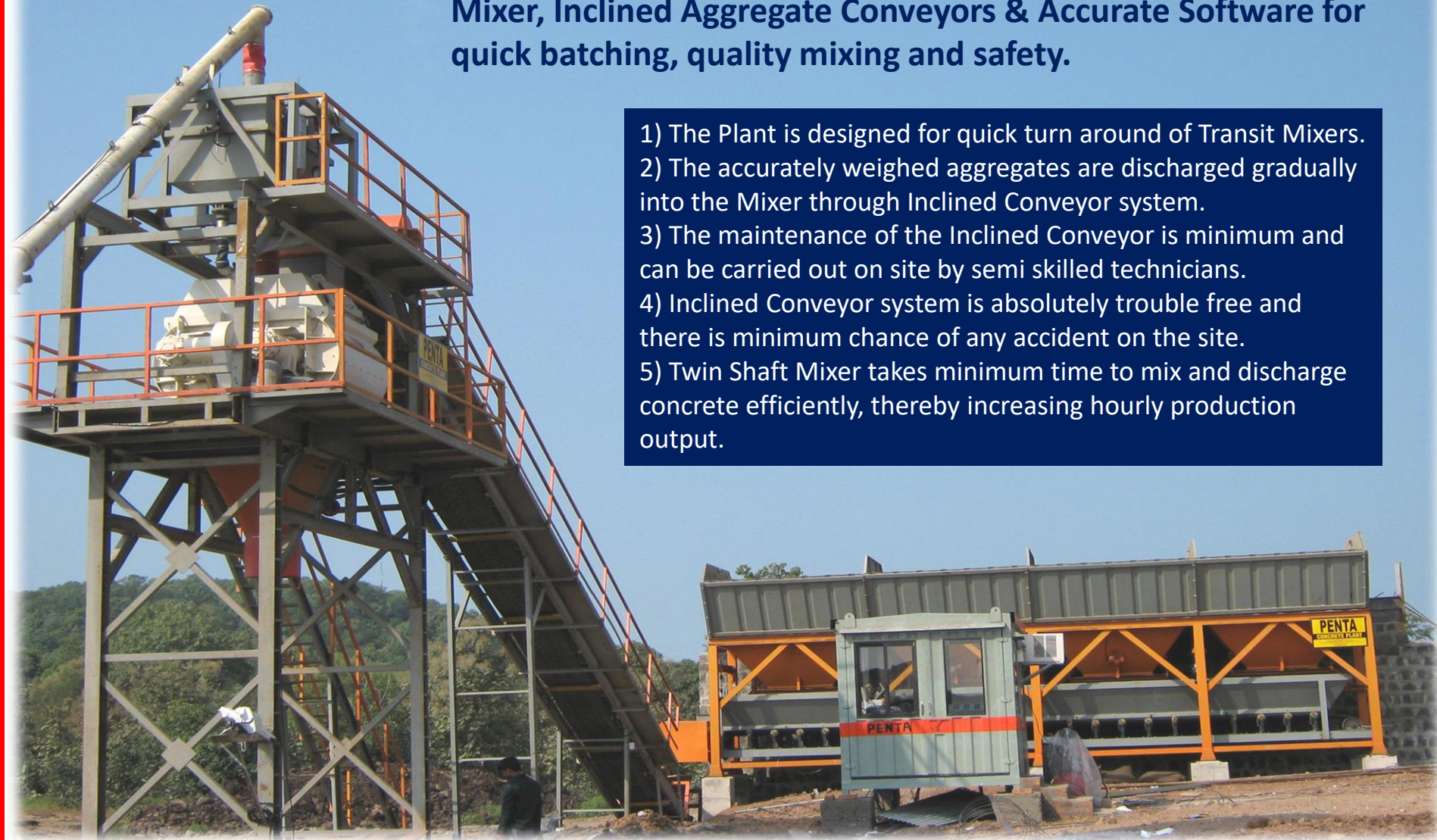
Concrete
Batching &
Mixing Plants

CAPACITIES :
Ranging from 30
cum/hr to 240
cum/hr.

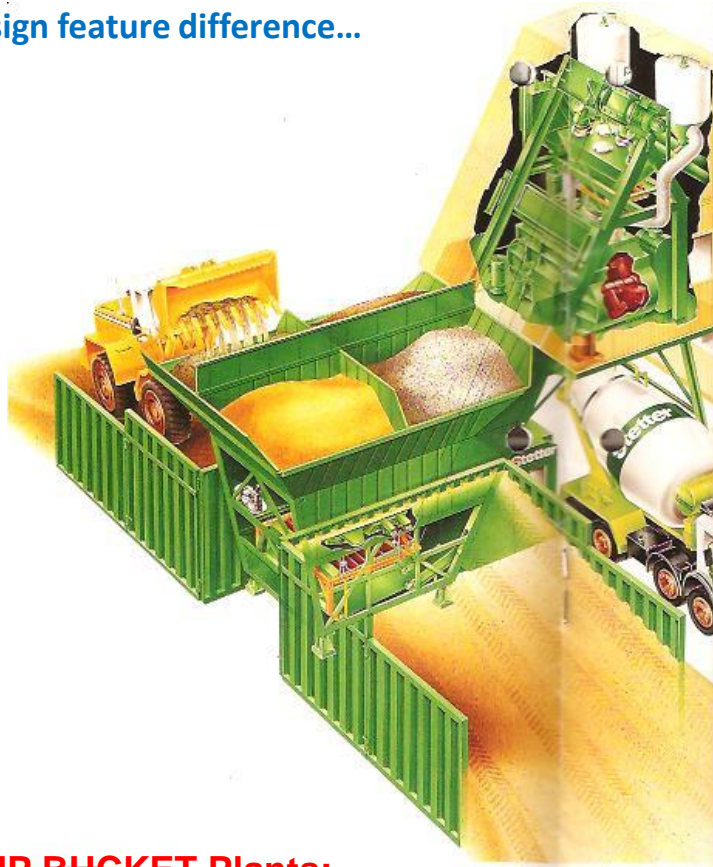
PENTA concrete plants

Salient Features: Plants are provided with Large Bins, Twin Shaft Compulsory Mixer, Inclined Aggregate Conveyors & Accurate Software for quick batching, quality mixing and safety.

- 1) The Plant is designed for quick turn around of Transit Mixers.
- 2) The accurately weighed aggregates are discharged gradually into the Mixer through Inclined Conveyor system.
- 3) The maintenance of the Inclined Conveyor is minimum and can be carried out on site by semi skilled technicians.
- 4) Inclined Conveyor system is absolutely trouble free and there is minimum chance of any accident on the site.
- 5) Twin Shaft Mixer takes minimum time to mix and discharge concrete efficiently, thereby increasing hourly production output.



Design feature difference...



SKIP BUCKET Plants:

Most plants are provided with Skip on rope and brake motors to deliver the weighed aggregate into the Mixer.

Wear Parts such as:

Wire rope, pulleys, rollers, brake motor, Limit switches etc. are always a source head ache on sites and need frequent checking and replacement.

Emergency repair during breakdown, need long down time and expert electrician.

PENTA concrete plants



Why Inclined Aggregate Discharge Belt Conveyors?

PENTA Plants:

Provided with Inclined Rubber belt Conveyors for transporting weighed aggregates into the Mixer. Belt conveyors are rugged to use and need very less Maintenance compared to Skip. Needs less maintenance and wear parts.

Plant easily repaired by semi skilled mechanic in case of any misalignment.

Reduces down time when compared to SKIP Plant.



PENTA PLANT STRUCTURE Fabrication

PENTA PLANTS ARE DESIGNED FOR LONG LIFE WE USE ONLY BEST H BEAMS (JINDAL) AND BOX SECTION (ZENITH) FOR CONVEYORS.



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ZINC OXIDE PRIMER AND 2 COATS OF SYNTHETIC ENAMEL PAINT IS APPLIED TO ALL COMPONENTS.

PENTA PLANT STRUCTURE Fabrication

(International Fabrication standard)



BIN HOPPERS fabricated from wear resistant steel plates (SAIL/TATA) are corrugated for extra strength. Box stiffeners are also welded to prevent the plates from bulging during pressure loading with big buckets or directly from Dump Trucks.

PENTA PLANT STRUCTURE Fabrication



Weighing hopper & conveyor

Weighing Conveyor provided with one single Fabricated Weigh Hopper properly stiffened, provided with skirting to prevent any buckling or deviation during loading of materials for weighing. The Load cells give accurate weighing when the weigh hopper & weigh conveyor are fabricated & designed for extra rigidity

PENTA

Maintenance Platform



Competition Plant Design

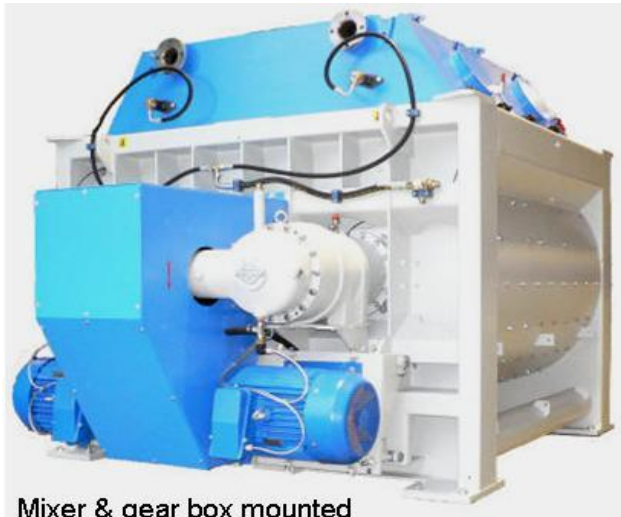


PENTA Custom Built Plants. Conveyors covered, Access Platforms and Safety ladders are provided to reach all the maintenance & calibration points.



Standard components

- 1) Double Deck access platform & Ladders.
- 2) All Conveyors are covered.
- 3) Safety Rails provided for safety.
- 4) Control Cabin with Air Conditioner.
- 5) Water Pumps
- 6) High Pressure Washing Pump with hose & Wand.



Mixer & gear box mounted
On the mixer frame

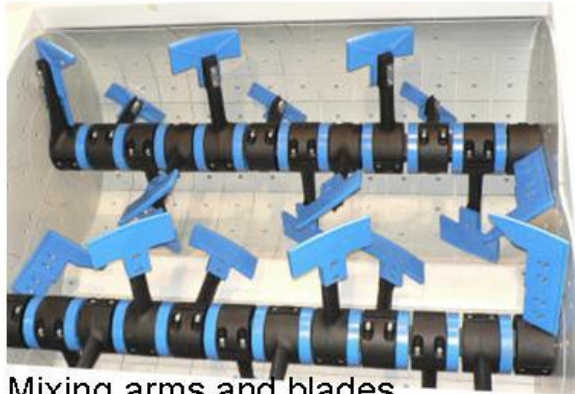
SICOMA Twin Shaft Mixers,
Come complete fitted with the
Top cover, inspection doors,
Dual gear box driven by self mounted Motors.
Everything is compact and one single unit.
The Bottom discharge gate is controlled by Hydraulic system and is in in 3 stages.



Platform for inspecting the mixing
Inside the mixer.



Emergency hydraulic door opening.



Mixing arms and blades



Automatic greasing system

PENTA components

Advantages of Twin Shaft Compulsory Mixer over Under Driven Pan Mixers

Twin Shaft Mixer: Only 20% of concrete comes in contact with the liners, so the life of the Liner is almost 60% more than the life of the liner in Pan Mixer. If any big object like rocks comes between the 2 rotating Shafts, the belt driving the gear box slips and acts like fuse Protecting the Mixer shafts and gear box from damage. Mixing is done by force, agitating and gravity

Under Driven Pan Mixer: The Liners wear out faster because 65%Of the concrete comes in contact with Liners. The Pan shafts and gear boxes are prone to breakage in case of any big object gets stuck between the blades. Mixing is done by forced action only.

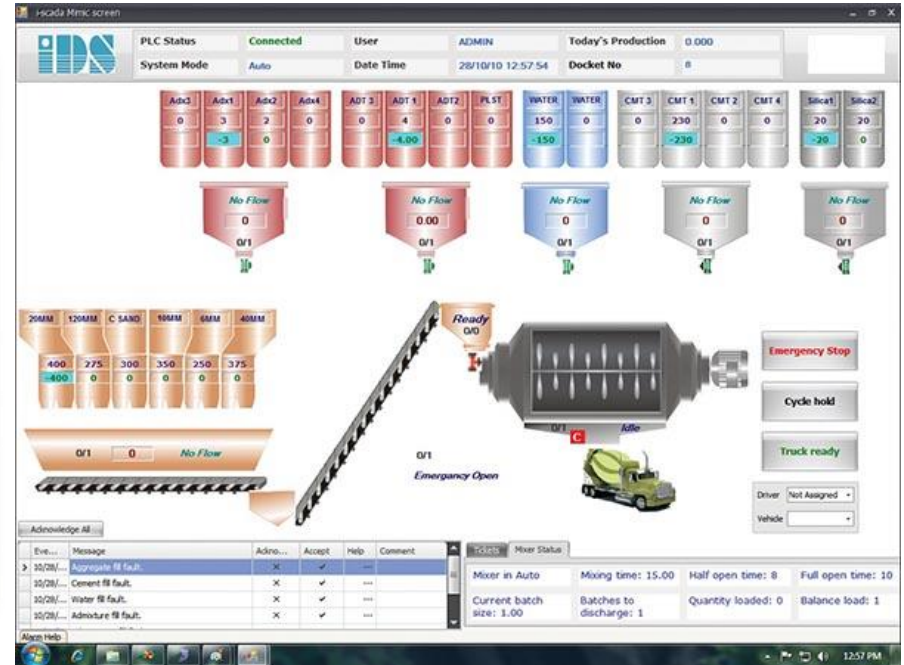
Long down time to repair breakdown in Pan Mixer compared to Twin Shaft Mixer.

IDS Technologies India Pvt. Ltd.

THE "NO 1" INDIAN BUILT SOFTWARE FOR RMC PLANTS. More than 4500 installations



PENTA components



The Lasting Bond

Clients: End users



PENTA PLANTS WERE THE FIRST TO USE THE IDS SYSTEM IN THE YEAR 1995.



Most competition Plants have a very compact Control Cabin which is located near the mixer hopper. The operator has absolutely no view of the Plant. The Cabin is very small and cramped. Reduces cost of the cables but reduces operators view.

PENTA PLANTS ARE SUPPLIED WITH PROFESSIONALLY FABRICATED CLIMATE CONTROL CABIN with Air Conditioner. The Cabin is generally located at a safe distance from where the operator can view the entire plant. The cabling cost increases but we provide the internal extended cables. The Operators all round view is most important from SAFETY point of view,

PENTA components

PENTA provide : 13metre long Cement Screw Feeders, reduces the height of the RCC foundation of the Silo to max: 750mm.

Most competition supply 9metre Length which increases the Silo RCC Foundation height to 2 metres. Cost, Time and after project the demolition of such a foundation is expensive.



PENTA concrete plants



Bins can be designed to be placed on steel or RCC Skids.

We also custom design Plants.



**RAMP Loading of Aggregates:
Loader or Direct Dumper Unloading.**



For detailed techno-commercial information
Please contact:



ALLEN BUILDWELL PRIVATE LIMITED

Mumbai Sales Office: B 206, Arjun Centre, Govandi
Station Road, Govandi East, Mumbai-400 088.
India.

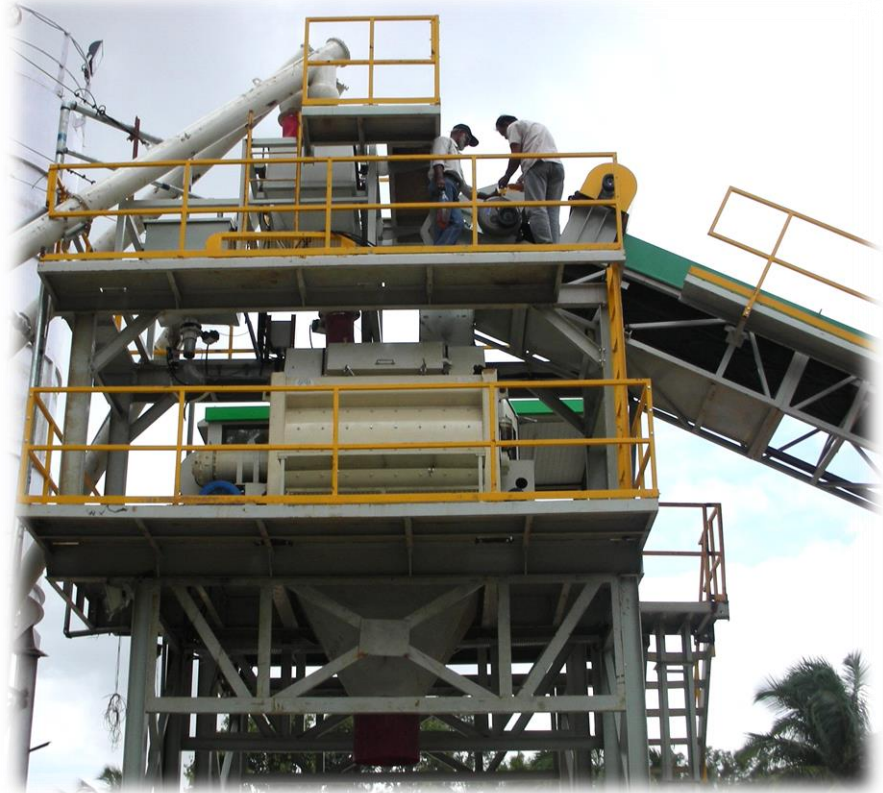
Land Line: 022-25569044, 25513030,

Mobile: +91 8522-892959

E-mail: info@allenbuildwell.com;

bo@allenbuildwell.com

Website: www.allenbuildwell.com



**STRONG
SIMPLE
DESIGN**