

What is an OM transit Mixer CUM Mobile Batching Plant:

“OM” is a novel transit mixer which can weigh all the ingredients on positive weight basis and forcefully mix them in a forceful compulsory mixer in order to produce high quality concrete. This mobile mixer is also capable of transporting the mixed concrete and discharge like a normal transit mixer. Further these mixers can be mounted on normal commercial trucks like normal conventional transit mixers. Presently we have developed these mixers in two capacities. The OM 2000 has a dry input capacity of 3 cubic meter and output capacity of 2 cubic meter (5 Tons) of wet compacted concrete per batch. It can also transport two cubic meter of wet concrete and is suitable for mounting on a 11 Ton commercial truck. The other model OM 4000 has a dry input capacity of 4 cubic meter and has a wet compacted concrete output of 3 cubic meter per batch. It can transport 3 cubic meter of wet compacted concrete and is suitable for mounting on a 16 Ton commercial truck. A few advantages & Features of the “OM” transit mixers.

Why OM transit Mixers?

1. OM Transit Mixer can replace the conventional transit mixers eliminating the batching plants as a OM Mixer is a combination of a mobile batching plant & a transit mixer and it can produce as well as transport concrete.
2. No dedicated land required for erection.
3. No foundations.
- 4.No erection & commissioning required.
5. No D.G. OR external power required.
6. Less dependency on skilled manpower.
7. Frequent shifting possible which is impossible with stationary batching plants.
8. Low Maintenance & running cost as it has only one moving part.
9. Can be directly loaded with a front end loader and no time is lost

in batching, conveying, mixing & discharging when provided with an Inbuilt batching system including a batch-sheet printer.

10. Only one moving part unlike a no. of moving parts in the batching plant.

11.No pneumatic system required.

12.No belt conveyors or skip buckets required.

13. User friendly operation unlike complicated control system of batch mix plants.

14. In case breakdown other equipment do not remain idle however if a batching plant is under breakdown, a no. of equipment like transit mixers/ concrete pumps etc remain idle as production completely stops.

How it works?

a. **Stand-alone operation:** one single OM 4000 machine with a tractor-loader Or JCB can do more than 100 cubic meter per day if operated at one location without transportation in continuous loading. For stand-alone operation, it is provided with an Inbuilt batching system with digital weight Indicators on both sides having a PLC control system with a in built batch-sheet printer. The self batching system has the mixer drum fixed on electronic load-cells which display exact weight of each ingredient on the digital weight indicators on both sides as well as on the control panel. The control panel can be programmed with the actual recipe. Also the larger batch ensures perfect homogeneous mixing with a very high consistency.

b. Feeding of Multiple OM mixers with a separate fully automatic four bin batching unit:

For mass concreting, we supply a portable four bin fully automatic weigh batcher with printer facility having hourly output of 45 & 90 cubic meter. These fully automatic portable batching units have different bins for four type of aggregates & different compartment

for cement. The time taken to load one OM machine is less than 50% when compared to a 30 cubic meter per hour plant feeding a six cubic meter transit mixer. The fully automatic batching units are available in Diesel as well as electric versions.

Advantages of OM Transit Mixers over normal Transit Mixers:

1. OM Transit Mixer Can produce as well as transport concrete unlike normal transit mixers which can only transport concrete but cannot produce concrete.
2. OM Transit Mixer can be directly fed with a normally available front end loader like JCB or a tractor loader unlike a transit mixer which needs a conventional concrete batching & mixing plant.
3. OM Transit Mixer Is provided with an electronic weighing system with a batch-sheet printer.
4. A single OM Transit Mixer can enable a user to start concrete business unlike a transit mixer.
5. A single OM Transit Mixer without generator or external power can be used as a mobile batching plant unlike a transit mixer.
6. A high output can be extracted when fed continuously at one location and can feed a concrete pump directly.

Advantages of OM Transit Mixers over Self loading transit Mixers:

1. OM Transit Mixer can be mounted on any commercial truck unlike a self loading transit mixer which has its own custom made truck on which it is mounted.
2. Saving in the capital & operation cost even after considering loader & truck.
3. OM Transit Mixer can be even mounted on a used truck reducing the capital cost which is not possible with a self loading transit mixer.
4. OM Transit Mixer can be directly loaded by a front end loader while the equipment is at one place unlike the self loading transit

mixer which has to move from one material to another in order to feed itself.

5. OM Transit Mixer has a Very High output compared to self loading transit mixer (more than double) in spite of low capital cost.

6. OM Transit Mixer has a Forceful mixing in a compulsory mixer unlike the gravitational mixing in the self loading transit mixer.

7. OM Transit Mixer has a very low maintenance cost due to simple construction and only one moving part unlike the self loading transit mixer.

8. OM Transit Mixer can replace the conventional combination of normal transit mixers and stationary plants unlike the self loading transit mixers.

9. OM Transit Mixer has a very high accuracy due to larger batch sizes compared to approximations in a self loading transit mixer.

10. OM Transit Mixer has short loading & mixing cycle independent of the distance to be travelled unlike the self loading transit mixer where the mixing depends upon the distance travelled or longer duration mixing required at one location.

11. OM mixer Spare parts are low cost & easily available (100% indigenous) unlike the self loading transit mixers which have huge import content made to custom designs creating monopoly.

12. Only one loader is sufficient for more than one OM transit mixers.