



**AQUARIUS ENGINEERS PVT. LTD.**

**STATIONARY & MOBILE CONCRETE  
BATCHING PLANTS**



Batching Plants



Boom Pumps



Concrete Line Pumps



Truck Mounted Pumps

## About Us

Aquarius Engineers began operations in 1981. Aquarius has grown dramatically, since then, into a multifaceted, multi-venture, manufacturing conglomerate. With prestigious joint ventures and associations under wings, state-of-art manufacturing plants at Pune & Goa and offices spread out across the country, it has been truly a **Tryst with Technology** for Aquarius. In addition to the local market the company also exports to nearby countries.

### Concrete Pumps:

Line Pumps, Mobile Pumps, Boom Pumps

### Batching Plants:

Stationary, Mobile, Super Mobile Plants

### Pavers:

Slipform, Curb & Barrier Machines

## Products

With a consistent focus on delivering international quality products, Aquarius offers the latest in technology from its extensive equipment portfolio. From Stationary Pumps, Mobile Line Pumps, Truck Mounted Boom Pumps and Concrete Batching Plants to the state-of-art Slipform Pavers, Curb & Barrier Machines, Aquarius can claim to have it all!

## Customer Service

Aquarius operates on an all India canvas with regional offices at Delhi, Mumbai, Hyderabad, Bangalore, Kolkata, Ahmedabad, Indore, Chennai, Jaipur, Bhubaneshwar and Chandigarh. Aquarius strives to excel and continuously improve their after-sales services and spare part support. An efficient service and spare parts support network has been set-up within the country. Additionally, well-equipped Service Vans have been introduced in major cities to provide quick, on-site service to customers. Clients have come to look upon Aquarius as their long-term partner in successful project implementations. NHAI, NTPC, NPC, NHPC, AAI, DMRC...Aquarius have left an imprint on many of their prestigious projects.



## Manufacturing

The manufacturing plants in Pune and Goa produce Concrete Pumps, Concrete Batching Plants and Accessories that are able to meet stringent international quality standards. Aquarius has invested heavily in flexible manufacturing set-ups and engineering, to adopt, upgrade and deliver products in line with the latest technology relevant to local conditions. Spread over 14,000 sq. m. of land, the Goa factory has become an object of pride for the company. With the annual production crossing the planned capacities, activities are already on at the factory to double the present manufacturing capacity. The new factory near Pune over 40,000 sq.m. of land, further augments the batching plant manufacturing capacity.

Goa Plant



Pune Plant



## Super Mobile Batching Plant



AQUARIUS SMP 30 plant comprises of a 0.75 cubic meter capacity Planetary Mixer that gives a compacted output of 0.5 cubic meter per batch. The plant requires absolutely no foundations but only PCC work. Thus it can be dismantled and shifted to a new location quite speedily. SMP 30 is provided with four Aggregate Bins with a total storage capacity of 20 cubic meters. With high precision load cells for electronic weighing of cement, aggregates & water and a digital display, SMP 30 is one of the most compact batching plant from AQUARIUS range of products.

A unique feature of SMP 30 is its fold-type design, which reduces the transport costs, crane cost & shifting time drastically. Another feature is the Skip Hoist arrangement for mixer loading and a modular PLC based control system, RT-MATIC. Moreover, the concrete discharge is directly into the pump hopper, eliminating the need of transit mixers.

An Admixture Dosing Unit and a standard Cement Screw Conveyor are also a part of the standard offering.

A very low operation & maintenance cost and a possible continuous production cycle as low as 72 seconds makes SMP 30 the most preferred plant in the Contractor segment.

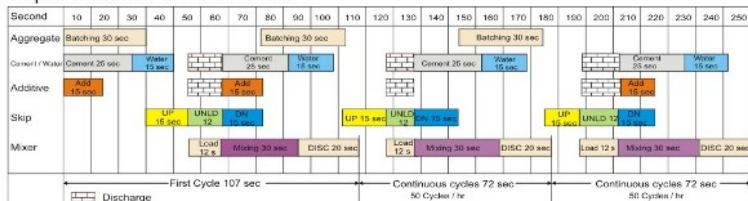
### Technical Specifications:

Plant Model	SMP 30
Type of Mixer	Planetary
Capacity of Mixer	750 Ltrs
Compacted output per batch	500 Ltrs
No of Aggregates	max. 4 nos.
Storage Capacity of Aggregates	20 m <sup>3</sup>
No. of Cement / Fly Ash	max. 2 nos.
No. of Water	max. 1 no.
No. of Additives	max. 1 no.
Aggregate loading in Mixer	skip hoist
Connected Load*	50 kW

### Highlights:

- No foundation work required for the plant. Minimum of PCC work sufficient for plant installation
- A First-Of-A-Kind plant design, which allows the plant to be completely folded and transported in the minimum of space requirement. Patent applied
- Compact plant design with novel skip movement to ensure accurate weighing and reduced maintenance costs
- Branded Laptop provided along with plant. Complete plant operation through Lap top mouse is possible. Cycle data stored can be viewed or printed as per customer convenience

### Super Mobile Plant: SMP 30



\*Note: Based on 3 aggregates (max. 2000 kg/m<sup>3</sup>), 1 Cement (max. 300 kg/m<sup>3</sup>), 1 Water (max. 160 kg/m<sup>3</sup>) & 1 Admixture (max. 4 kg/m<sup>3</sup>), 30 sec mixing time, 20 sec discharge time, normal slump 70 - 130 mm.

## Mobile Batching Plants



AQUARIUS Mobile Plants directly discharge the concrete into a Transit Mixer. The plants are mounted on re-usable precast foundations, which can be shifted to another location easily. Available with 0.5 cubic meter Planetary Mixer as well as 1.0 cubic meter Twin Shaft Mixer, the plants deliver consistent quality concrete and are most preferred in the RMC industry.

The Mobile Plants are provided with four Aggregate Bins with a total storage capacity of 30/50 cubic meters. With high precision load cells for electronic weighing of cement, aggregates & water and a digital display, the MP series plants are the most mobile batching plants available in the market in their class.

Another feature is the Skip Hoist arrangement for mixer loading and a modular, two-level PLC based control system with real-time SCADA for control and data management, RT-MATIC PLUS / RT - SMART. Plants have a compact design that boosts the production capacity and fit in smaller plot sizes.

An Admixture Dosing Unit and a standard Cement Screw Conveyor are also a part of the standard offering. A highly minimized operation & maintenance cost and a possible continuous production cycle as low as 63/72 seconds make the MP Series Plants the most preferred mobile plants in the Contractor & RMC segment.

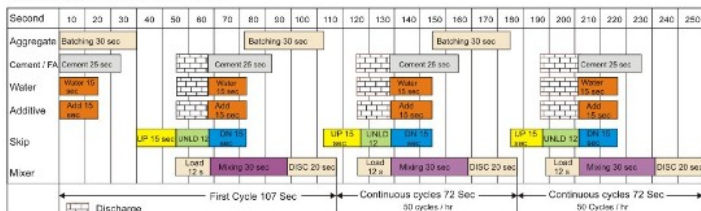
### Technical Specifications:

Plant Model	MP 30	MP 60
Type of Mixer	Planetary	Twin Shaft
Capacity of Mixer	750 Ltrs	1500Ltrs
Compacted output per batch	500 Ltrs	1000 Ltrs
No of Aggregates	max. 4 nos.	max. 4 nos.
Storage Capacity of Aggregates	30 m <sup>3</sup>	50 m <sup>3</sup>
No. of Cement / Fly Ash	max. 3 nos.	max. 3 nos.
No. of Water	max. 2 nos.	max. 2 nos.
No. of Additives	max. 2 nos.	max. 2 nos.
Aggregate loading in Mixer	skip hoist	skip hoist
Connected Load*	50 kW	80 kW

### Highlights:

- Mounted on re-usable pre-cast foundations that can be easily shifted to other sites
- Plants directly discharge the concrete into a Transit Mixer. Compact design allows installation in smaller areas

### Mobile Plant: MP 60



\*Note: Based on 3 aggregates (max. 2000kg/m<sup>3</sup>), 1 Cement (max. 300kg/m<sup>3</sup>), 1 Water (max. 160 kg/m<sup>3</sup>) & 1 Admixture (max. 4 kg/m<sup>3</sup>), 30 sec mixing time, 20 sec discharge time, normal slump 70 - 130 mm.

## Stationary Batching Plants

AQUARIUS Stationary Plants are designed for ready-mix producers, contractors, precast manufacturers and special applications. Standard plants are furnished with Twin Shaft mixers from 1.0 cubic meter to 3.0 cubic meter capacity. Customized higher capacity plants are also produced to suit varied customer requirements. The Stationary Plants are available in various capacities



ranging from 25 cubic meter to 240 cubic meter per hour of compacted concrete output. The Plants are provided with four, five and six nos. in-line Aggregate Bins option with a total storage capacity from 20 to 250 cubic meters, based on plant size.

With high precision load cells for electronic weighing of cement, aggregates & water and a digital display, the SP series plants are the most integrated stationary batching plants from AQUARIUS range of products. Another feature is the Skip Hoist or Belt arrangement option for mixer loading and a modular PLC based control system with real-time SCADA for control and data management, RT-SMART. Special plant designs are available for dam construction and precast manufacturers. The design can adopt Ice dosing, Microsilica dosing and some special additives very easily. Ultimate modular design provides flexibility to adapt to site conditions and add on features as per project requirements. Specially casted wear resistant parts are provided to keep maintenance time and cost at a very low level. Special Plants are equipped with advanced control system "Beton System".

### Technical Specifications

Plant Model	SP 60	SP 70	SP 90	SP 100	SP 120
Type of Mixer	Twin Shaft	Twin Shaft	Twin Shaft	Twin Shaft	Twin Shaft
Capacity of Mixer	1500 Ltrs	1800Ltrs	3000Ltrs	3380Ltrs	4500Ltrs
Compacted output per batch	1000 Ltrs	1250 Ltrs	2000 Ltrs	2250 Ltrs	3000 Ltrs
No of Aggregates	max. 4 nos.	max. 4/6 nos.	max. 6 nos.	max. 6 nos.	max. 6 nos.
Storage Capacity of Aggregates	40	40/70/100/160/250	70/100/160/250	70/100/160/250	70/100/160/250
No. of Cement / Fly Ash	max. 4 nos.	max. 4 nos.	max. 4 nos.	max. 4 nos.	max. 4 nos.
No. of Water	max. 2 nos.	max. 2 nos.	max. 2 nos.	max. 2 nos.	max. 2 nos.
No. of Additives	max. 4 nos.	max. 4 nos.	max. 4 nos.	max. 4 nos.	max. 4 nos.
Aggregate loading in Mixer	Skip Hoist / Belt	Skip Hoist / Belt	Conveyor Belt	Conveyor Belt	Conveyor Belt
Connected Load*	80 kW	90 kW	145 kW	160 kW	195 kW

An Admixture Dosing Unit and a standard Cement Screw Conveyor are also a part of the standard offering. A highly minimized operation & maintenance cost and a possible continuous production cycle as low as 70 seconds make SP Series Plants the most preferred plants in the RMC & Infra Structure Projects segment.

### Stationary Plant: SP (Skip Type)

Second	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	
Aggregate	Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec									
Cement / FA	Cement 40 sec				Cement 140 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec									
Water	Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec									
Additive	Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec									
Skip	Load 15 sec		Up 20 sec		UNLD 15 sec		Down 20 sec		Load 15 sec		Up 20 sec		UNLD 15 sec		Down 20 sec		Load 15 sec		Up 20 sec		UNLD 15 sec		Down 20 sec		Load 15 sec	
Mixer	Load 15 sec				Mixing 30 sec				DISC 20 sec				Load 15 sec				Mixing 30 sec				DISC 20 sec					
	First Cycle 140 sec														Continuous cycles 70 sec						Cont. cycles in 70 sec					
	Discharge														Production 51 cycles/hour											

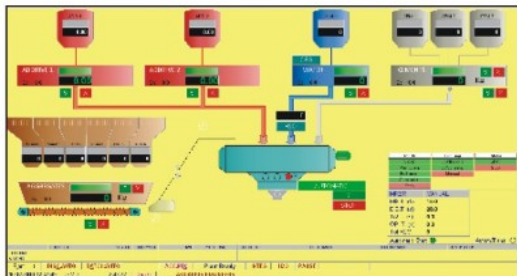
\*Note: Based on 1 m<sup>3</sup> cycles of Std. concrete with 4 aggregates (max. 2000 kg/m<sup>3</sup>), 1 Cement (max. 300 kg/m<sup>3</sup>), 1 Water (max. 160 kg/m<sup>3</sup>) & 1 Admixture (max. 4kg/m<sup>3</sup>), 30 sec mixing time, 20 sec discharge time, normal slump 70 - 130 mm.

## Concrete Wash

Concrete recycling system is designed to reclaim slurry water and aggregates, to be re-used in concrete production. An eco friendly equipment to wash the concrete wash-out from transit mixers. Slurry water can be used in concrete batching plant that enhances pumping ability. An Ideal solution to your waste disposal and washing problems. Don't call it concrete re-claimed, call it wealth re-claimed for you and health re-claimed for the society.



## Control System

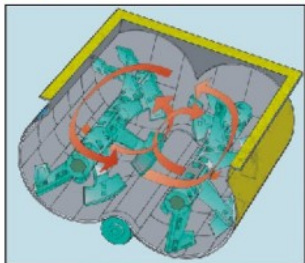


RT - SMART Screenshots

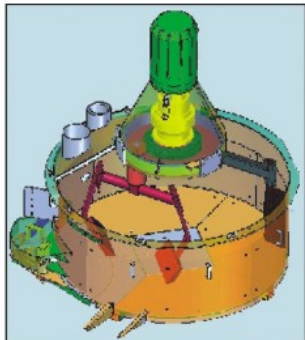
All of the Aquarius plants are furnished with state-of-art control systems, customized to the requirements of various segments. Four level control systems are available, furnished with sophisticated PLC and Gen-next program logics. Features like auto-in-flight, stock maintenance, on screen diagnosis, production data handling, automatic delivery challan and cycle data printing to name a few. Real time on screen simulation in computerized control system provides you single point view of the complete plant operation.

The systems are designed based on all the feed backs and requirements from various operation levels. An easy up-gradation from project to project is a key feature of the system.

## Mixers



Twin Shaft Mixer



Planetary Mixer

Performance of equipment is based on standard working conditions. Design / Specifications can be changed without prior notice.



### AQUARIUS ENGINEERS PVT. LTD.

**Concrete Pumps, Batching Plants, Slipform Pavers**

'Aquarius House', Sheelavihar Colony,  
Off Karve Road, Pune 411 038, INDIA  
Tel.: +91 20 2544 5227 Fax: +91 20 2544 5228  
E-mail: enquiries@aquariusengineers.biz  
Web: www.aquariusengineers.biz

Local Contact :