



AQUARIUS ENGINEERS PVT. LTD.

Concrete Pumps, Batching Plants, Boom Pumps

MP 60



MOBILE CONCRETE BATCHING PLANTS - MP SERIES

MP 30



▶ Mobile Batching Plants:

- ▶ Drive through design for increased productivity
- ▶ Mounted on re-usable precast foundations, which can be shifted to other locations easily
- ▶ Available with 0.35 cubic meter and above batch size Planetary Mixers and with 1 cubic meter and above Twin Shaft Mixers
- ▶ Deliver consistent quality concrete and are most preferred in the RMC industry
- ▶ Four Aggregate Bins with a total storage capacity of 30/50/70 cubic meter
- ▶ High precision load cells for independent electronic weighing of cement, aggregates & water with digital display
- ▶ Two-level PLC based control system with real-time SCADA for control and data management, RT - MATIC PLUS / RT - SMART
- ▶ Compact design that fits in confined spaces
- ▶ Low operation & maintenance cost
- ▶ Minimum aggregate loading height
- ▶ Robust structure with corrugated bins
- ▶ Large mixer platform for ease of maintenance
- ▶ Added safety with double wire rope for skip
- ▶ Control cabin included in standard scope

MP 21



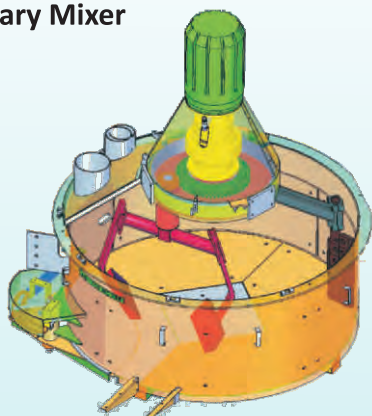


Technical Specifications:

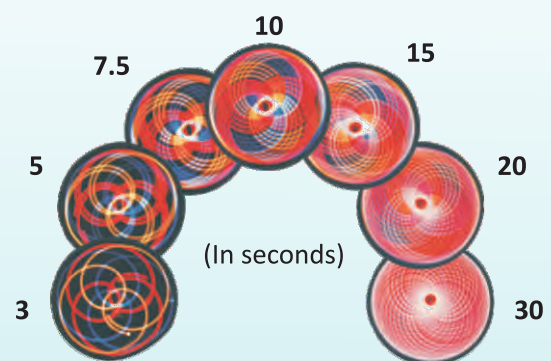
Model Specifications	Unit	MP 21	MP 30	MP 60	MP 70	MP 90
Type of Mixer	-	Planetary	Planetary	Twin Shaft	Twin Shaft	Twin Shaft
Dry Fill Capacity of Mixer	l	525	750	1500	1800	3000
Compacted Output per Batch	l	350	500	1000	1250	2000
Max. No. of Aggregates	no.	4	4	4	4	4
Storage Capacity of Aggregate	m ³	18	30	50	50	70
Max. No. of Cement / Fly Ash	no.	2	3	4	4	4
Max. No. of Water	no.	1	1	2	2	2
Max. No. of Additives	no.	1	2	3	3	3
Aggregate Loading in Mixer	-	Skip	Skip	Skip	Skip	Skip
Connected Load#	kW	32	50	80	90	146
Aggregate Loading Height	m	3.6	3.7	5.1	5.3	5.4
D.G. Set Required	kVA	50	62.5	125	150	250

Standard Configuration

Planetary Mixer



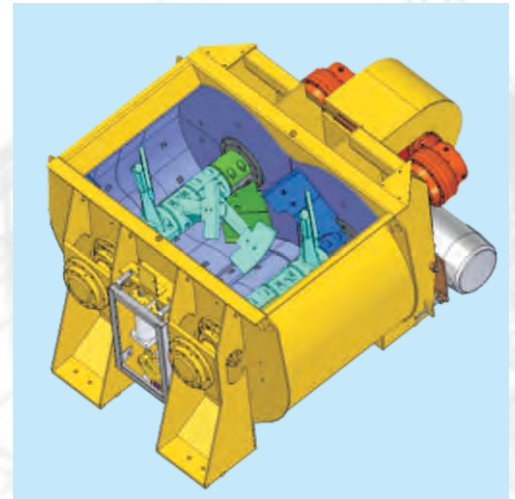
Planetary Mixing Action



Control System:

- ▶ SCADA based control systems, customized to the requirements of various segments
- ▶ Features like auto-in-flight, stock maintenance, on screen diagnosis, production data handling, automatic delivery challan and cycle data printing, etc.
- ▶ The systems are designed based on all feedbacks and requirements from various operation levels
- ▶ Computer provided as a part of standard scope

Twin Shaft Mixer



Cycle Time Charts:

Mobile Plant : MP 30

Second	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	
Aggregate balance	Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec							
Cement / F A balance	Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec				Cement 30 sec							
Water balance	Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec							
Admixture balance	Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec							
Aggregate Skip	Load 18 sec				UP 18 sec				Disc 9 sec				Down 18 sec				Load 15 sec				UP 18 sec				Disc 9 sec				Down 18 sec				Load 15 sec				UP 18 sec			
Mixer	Load 15 sec				Mixing 30 sec				Load 15 sec				Load 15 sec				Mixing 30 sec				Load 15 sec				Mixing 30 sec				Load 15 sec				Mixing 30 sec				Load 15 sec			
Discharge	First Cycle In 131 Sec																			Continuous Cycle in 60 Sec Production 60 Cycle /hr.																				

NOTE: Production capacity based on 0.5 m³ cycles of standard concrete with 4 aggregates, 1 cement, 1 water, 1 admixture; slump 7-13 cms.

Mobile Plant : MP 60

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	260	270	280														
Aggregate balance	Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec				Batching 40 sec													
Cement / F A balance	Cement 40 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec				Cement 40 sec													
Water balance	Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec				Water 20 sec													
Admixture balance	Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec				Add 15 sec													
Aggregate 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													
Mixer	Load 15 sec				Mixing 30 sec				Down 20 sec				Load 15 sec				Mixing 30 sec				Down 20 sec				Load 15 sec				Mixing 30 sec													
Discharge	First Cycle 140 sec														First Cycle 70 sec Production 51 cycles/hr.														Cont. cycle in 70 Sec													

NOTE: Production Capacity based on 1 m³ cycles of standard concrete with 4 aggregates (Max. 2000 kg/m³), 1 Cement (Max. 300 kg/m³), 1 water (Max. 160 kg/m³) & 1 admixture (Max. 4 kg/m³), 30 sec mixing time, 20 sec discharge time normal slump 70 - 130 mm.

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



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