



QUALITY SYSTEM:

The Manufacturing Procedures used for all SICOMA Mixers have been compliant with the Quality Requirements of ISO 9001 since 1995 and have been updated and approved by CERMET since 2009 as compliant to ISO 9001:2008.





3-D MODELLING

Since 1999 all Mixers are designed and constantly improved with the use of three-dimensional modeling softwares.



CNC MACHINE CENTER

The steel fabrication of the mixer tank is machined with a CNC boring machine to guarantee the perfect alignment and parallelism of the mixing shafts.



ASSEMBLY LINE

The Mixers are line assembled giving very short lead times due to the high level of standardisation.

PATENTS

The mixing elements as well as other particular features are protected by International Patents.



MIXING BLADES

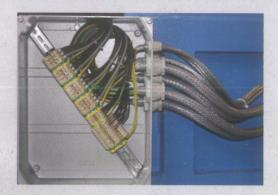
Complete the mixing action and give fast discharge. Cast from Ni-hard iron, 550 HB minimum, for extreme wear resistance. Outer edges are thickened to equalize wear and the angle of attack is optimized to push, not slice, to maximize both mixing and blade life.

MIXING ARMS

SICOMA's mixing action starts with the arms, which are responsible for most of the mixing, from top to bottom. Three cast iron arms per star, two stars starting from MP 1875/1250 and three stars for MP 4500/3000 and MP6000/4000. Together with two hardened steel scraping arms they are the best for toughness plus abrasion resistance. Adjustment slots allow easy blade adjustment to compensate for wear.

LINER PLATES

15 mm Ni-hard cast iron tiles give many times the life of abrasion resistant steel liner plates, reducing lifetime cost. Bolted assembly makes replacement a simple task; in addition, the wall plates are reversible to increase life even further. Additionally, tight fabrication tolerances mean that blades can be adjusted close to walls and floor for perfect cleanout between batches, ensuring the best performance on coloured products.



JUNCTION BOX

All connections, including motor 3-phase power as well as solenoid valves and switches, are available in one easy access junction box.



HYDRAULIC POWER PACK

It has plenty of capacity to operate doors reliably in even the largest mixer. Manual lever allows the door dual use, to be opened during power loss and to be closed right after.



DISCHARGE

Up to four swing-out sector doors running in rubber seals are completely watertight, non-jamming and low in maintenance, further



HALF-MOON COVER

Widest opening of any, to give faster cleanup and adjustment of wear parts while making the process safer all round. One, two or three-part depending

OPTIONS AVAILABLE



CONTROL PANEL

Mounts on the mixer, allowing major mixer functions to be controlled locally to make cleanout, testing and maintenance easier.



BELT TRANSMISSION

In case the mixer must be installed in a plant with a reduced height dimension, it is possible to install the mixer motor at the side of the pan and to use a belt transmission between the motor and the gearbox.



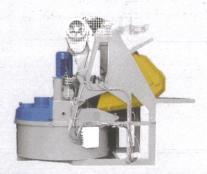
SAMPLING BOX

All Planetary mixers can be equipped with a sampling box to take some samples of material before the discharge, usually used to prepare concrete test cubes. The operator can collect the sample very easily and safely without opening the top cover of the mixer, which would require the main switch of the plant to be turned off.



ROTATING PROBE

SICOMA -OMG Planetary Mixers can be equipped with a probe which is fixed to the scraping arm connection and rotates immersed in the mix for a faster and better measurement. A unique feature of our planetary mixers is



TIPPING SKIP

Rails can be installed vertically to allow installation in the smallest floor area.



POWERED PULVERIZER

The unique hollow central shaft allows electrical connection to the motorised blades which improve mixing of clay products by breaking up balls of unmixed material.



HIGH PRESSURE WASHING SYSTEM

SICOMA's unique hollow central shaft allows washout jets to be mounted under the rotating arms. Together with the powerful high pressure pump unit, a tornado of water cleans the mixer better than anything before. Your final cleanup time is reduced by 80% or more.



STAINLESS STEEL TANK AND MIXING TOOLS

Whenever the material to be mixed must be contamination free or when the ingredients are chemically aggressive, it is recommended to use special materials (such as Stainless Steel) for the lining of the pan and for the mixing tools.



FLOOR MOUNTED MOISTURE PROBE

The production of high quality concrete usually requires a moisture measurement in the mixer, in order to control the water content in the mix. Upon request, all Planetary Mixers can be equipped with moisture probes installed at



HYDRAULIC COUPLING

Gives long service life by reducing the high mechanical stress in conditions such as repeated startup with a full



PROBE CLEANING BLADE

In case a floor mounted probe is installed, we recommend using a rubber cleaning blade which cleans the surface of the sensor at every rotation of the planetary gearbox, improving the quality of the measurement.



DUST COLLECTOR AIRBAG

During the discharge of the aggregates into the mixer, either from a skip or from a holding hopper, the Dust Collector Bag must absorb the air shock generated by the fast inrush of the material.

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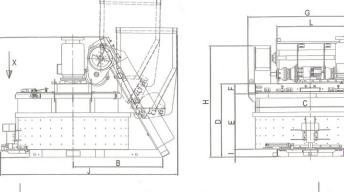
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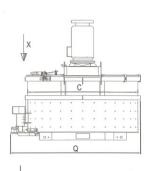
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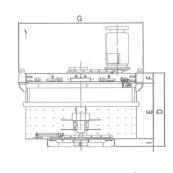


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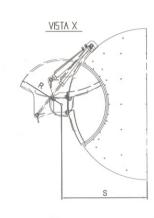




MP WITH SKIP

MP WITHOUT SKIP

MODELLO TYPE	Α	В	С	D	E	F	G	Н		J	K	L	Q	R	S
MP 150/100	1730	1105	1010	750	505	160	1085	1500	80	1800	1610	750	1320	380	615
MP 375/250	1790	1260	1270	910	460	355	1530	1500	100	2300	1630	900	1575	380	755
MP 565/375	2140	1335	1590	1110	555	430	1870	1610	120	2620	1760	1000	1900	480	910
MP 750/500	2491	1505	1835	1200	500	550	2100	1795	140	2955	1990	1100	2155	560	1050
MP 1125/750	2900	1630	2015	1340	670	520	2270	2050	140	3320	2190	1220	2380	610	1140
MP 1500/1000	3045	1740	2215	1455	750	540	2470	2180	160	3450	2320	1350	2560	640	1225
MP 1875/1250	3045	1740	2400	1455	750	540	2470	2180	160	3500	2320	1350	2800	658	1325
MP 2250/1500	3200	2050	2612	1600	750	670	2740	2330	180	4370	2340	1500	2975	700	1428
MP 3000/2000	4200	2540	3470	1735	1230	685	3710	2450	200	5450	3190	1730	3792	700	1845
MP 3750/2500	4200	2540	3470	1735	1230	685	3710	2450	200	5450	3190	1730	3792	700	1845
MP 4500/3000	-	-	4000	1756	1025	550	-	-	200	-	-	1730	4600	1200	2200
MP 6000/4000		-	4000	1756	1025	550	-		200	-	-	1730	4600	1200	2200



TECHNICAL CHARACTERISTICS														
TYPE		MP 75/50	MP 150/100	MP 375/250	MP 565/375	MP 750/500	MP 1125/750	MP 1500/1000	MP 1875/1250	MP 2250/1500	MP 3000/2000	MP 3750/2500	MP 4500/3000	MP 6000/4000
DRY FILLING CAPACITY (*)	cu.yd	0.1 75	0.2 150	0.5 375	0.7 565	1 750	1.5 1125	2 1500	2.5 1875	3 2250	4 3000	5 3750	6 4500	8 6000
CONCRETE OUTPUT PER CYCLE (COMPACTED) (*)	cu.yd	0.07 50	0.13 100	0.3 250	0.5 375	0.7 500	1.0 750	1.3 1000	1.7 1250	2.0 1500	2.6 2000	3.3 2500	4 3000	5,33 4000
MAXUMUM LOAD CAPACITY	lb kg	265 120	530 240	1320 600	1990 900	2650 1200	3970 1800	5290 2400	6610 3000	7940 3600	10580 4800	13230 6000	15870 7200	21160 9600
SKIP VOLUMETRIC CAPACITY	cu.yd	0.1 85	0.2 165	0.5 412	0.8 616	1.1 825	1.6 1237	2.2 1650	2.7 2060	3.3 2475	4.4 3300	5.5 4125	5.8 4390	8 6000
MAXIMUM SKIP LOAD CAPACITY	lb kg	220 100	440 200	1100 500	1650 750	2200 1000	3300 1500	4400 2000	5500 2500	6600 3000	8800 4000	11000 5000	13300 6000	17700 8000
INNER PAN DIAMETER	inch mm	28 700	39 1000	50 1260	62 1580	72 1820	79 2000	87 2200	94 2400	102 2600	135 3420	135 3420	157 4000	157 4000
MIXING MOTOR(S)	kW HP	1.5 2	4 5.5	7.5 10	11 15	18.5 25	30 40	55 60	55 60	2 x 30 2 x 40	2 x 45 2 x 60	2 x 45 2 x 60	3 x 45 3 x 60	3 x 55 3 x 75
HYDRAULIC POWER PACK MOTOR	kW HP	0.75	0.75 1.5	1.5	1.5	1.5 2	2.2	4 5.5	5.5	5.5	5.5 7.5	5.5 7.5	7.5 10	7.5 10
SPEED OF PLANETARY GEARBOX	rpm	20	20	20	20	20	20	20	15	15	15	15	10	10
SPEED OF MIXING STAR(S)	rpm	50	35	40	40	45	40	45	40+40	30+30	30+30	30+30	30+30+30	30+30+30
MIXING ARMS	N.	3	3	3	3	3	3	3	6	6	6	6	9	9
SCRAPING ARM(S)	N.	1	1	1	1	1	1	1	1	1	2	2	3	3
WEIGHT OF MIXER WITHOUT SKIP	lb kg	441 200	1102 500	1984 900	3087 1400	4409 2000	5953 2700	8157 3700	10362 4700	13890 6300	18740 8500	18740 8500	35274 16000	35274 16000
WEIGHT OF MIXER WITH SKIP	lb kg	882 400	1984 900	3080 1400	4409 2000	5953 2700	8157 3700	10803 4900	13008 5900	18520 8400	26457 12000	26457 12000	45300 20530	48500 22000
WEIGHT OF MIXER WITH HOLDING HOPPER	lb kg	705 320	1797 815	2866 1300	4189 1900	5699 2585	7606 3450	10142 4600	11464 5200	117748 8050	25134 11400	25134 11400	41890 19000	44100 20000

(*) In order to identify the productivity of the mixer, two parameters must be taken into consideration: