

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

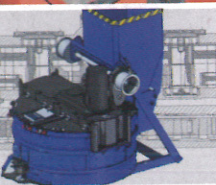
The steel fabrication of the mixer tank is machined with a CNC boring machine to guarantee the perfect alignment and parallelism of the mixing shafts.

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 ARMS

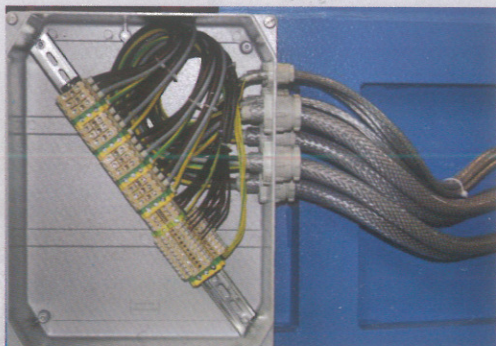
SICOMA's mixing action starts with the arms, which are responsible for most of the mixing, from top to bottom. Three cast iron arms per star, two stars starting from MP 1875/1250 and three stars for MP 4500/3000 and MP6000/4000. Together with two hardened steel scraping arms they are the best for toughness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

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.

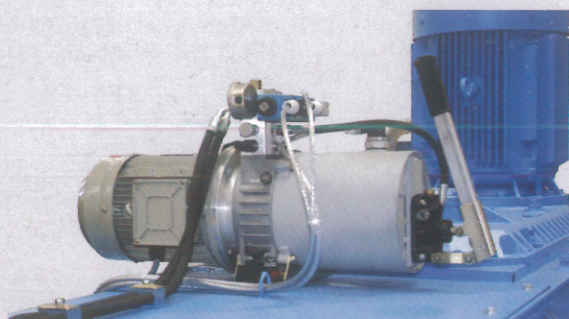
LINER PLATES

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.



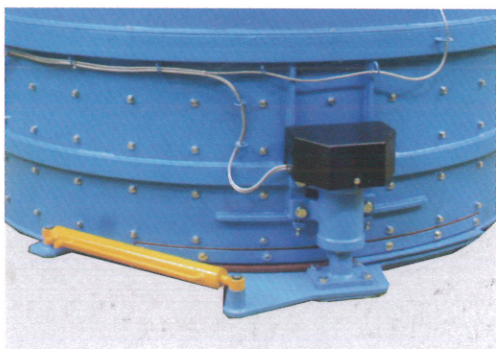
JUNCTION BOX

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 reducing lifetime cost. All models are hydraulically powered, but for



HALF-MOON COVER

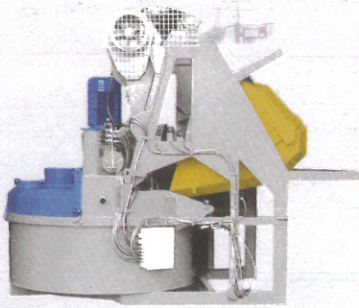
Widest opening of any, to give faster cleanup and adjustment of wear parts while making the process safer all round. One, two or three-part depending on mixer size. Simple design allows easy lift from inside mixer.

OPTIONS AVAILABLE



CONTROL PANEL

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



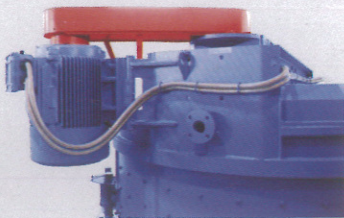
TIPPING SKIP

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



HYDRAULIC COUPLING

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



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.



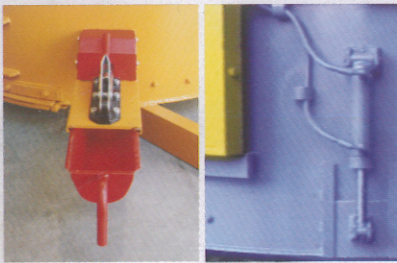
POWERED PULVERIZER

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.



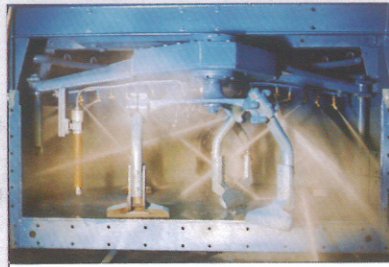
PROBE CLEANING BLADE

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.



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.



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.



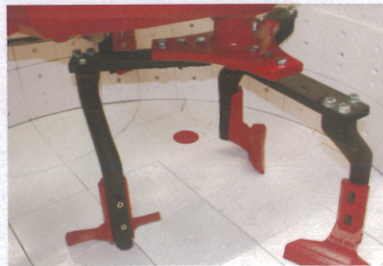
STAINLESS STEEL TANK AND MIXING TOOLS

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.



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



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



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.

