

OCL SINGLE SHAFT MIXERS mod. MM

The mixer consists of a cylindrical tank with wear-resistant and interchangeable lining plates made of Carbon Steel thickness **15 mm**.

Mixing is carried out **by two large helical blades** with opposite inclination, fixed rigidly to the central shaft, the lining tiles are made of Carbon Steel thickness **20 mm**.

During the rotation the blades cover the entire surface of the tank ensuring a **perfect homogeneity of the concrete in just 30 seconds**.

The **planetary gear box** is fit directly to the mixing shaft. The power transmission from motor to gearbox is made by means of V-belts.

The opening of the unloading gate is controlled by a **hydraulic power unit** (4 kW) with an hydraulic cylinder. The discharge time is less than 10 seconds. This unit is complete with emergency manual control.

The mixer is supplied with **automatic greasing pump** that takes care of keeping greased the bearings, the supports of the discharge gate and seals ensuring that the grout does not pass in the seals.

The inspection doors are equipped with **safety switch with key**.



Transport easiness

Thanks to the compact design that characterizes the whole range of single shaft mixers, all these machines **do not require special transports**.



OPEN TOP: mixers from mod. MM1180/500 to mod. MM7600/3650 are transportable in Open Top containers.



FLAT RACK: mixers from mod. MM8700/4200 to mod. MM10200/5000 are transportable on Flat Rack.



The special mixing action which is realized in the **single shaft system**, thanks to the two opposing ribbons, determines an optimal distribution of the cement paste on each particle of sand and aggregates, the homogeneous distribution of the cement throughout the mix allows a **substantial reduction of the cement required and an increase of the concrete resistance**.

The use of single-axis mixers may result in **SIGNIFICANT BENEFITS** in terms of product quality, productivity and profitability of the installations:

- 1) **Perfectly homogeneous** mix even in the case of concrete with lightweight aggregate;
- 2) **Short mixing time** (30 sec.) and unloading time (10 sec.) entail a high hourly productivity, this mixer is faster than the batching plant;
- 3) **Energy saving** due to the lower electrical power needed compared to other mixers and to the shorter mixing time;
- 4) **Reduced** service and maintenance **costs**, quick and easy cleaning;
- 5) Thanks to the particular action of the mixing, the **wear** of the lining plates is **less** than that which occurs in other mixers, for this reason the lifetime of the plates is higher;
- 6) Perfect operation of the **sealing** system on the shaft;
- 7) The conformation of the mixing ribbons allows to produce **any type of concrete**, dry or with very high slump, lightened or with sizes up to 200 mm without percentage limits;

The extremely compact design permits standard **transport** of any mixer fully assembled, without the need of disassemble some components or resorting to exceptional transport.

Optional

- **SPECIAL WEAR-RESISTANT LINING** tiles made of hardened alloy of **Cast Iron with Chromium-Nickel-Molybdenum**, tank thickness 15 mm, helices ribbon thickness 20 mm.
- High pressure **AUTOMATIC WASHING SYSTEM** for mixer consisting of a bar with adjustable nozzles, water tank, pump flow rate 100 l/min at 60 bar, motor 11 kW.
- **AIRBAG OR FILTER** for venting during loading phase.
- Ladders with landing for mixer washing.
- **CONE TO DISCHARGE** into the truck mixer with anti-clogging system.
- **HUMIDITY PROBE** installed in the bottom of the tank, for the production of high quality concrete that require precise control of humidity of the mix.
- Loading **SKIP** complete with runways.
- Mixer supporting frame for discharge into the truck mixer complete with access stair and landing.
- **CEMENT BATCHING UNIT** by weight with load cells.
- Aggregates **WAITING HOPPER** coated with Hardox thickness 5 mm.
- **WATER BATCHING UNIT** by volume and / or weight with load cells.

