

TECHNICAL DOSSIER

MOBILE CONCRETE BATCHING PLANT

ECA-MIX 1000

THEORICAL PRODUCTION CAPACITY....50m³ PER HOUR

AGGREGATES CAPACITY.....4 HOPPERS IN PANEL X 5m³ (20m³)

MIXING CAPACITY PER BATCH.....1m³

TYPE OF MIXER.....A AXE VERTICAL

CEMENT CAPACITY.....1 X 55 TN

TOTAL POWER.....77 kW

ABSORBED POWER.....65 kW

TECHNICAL DESCRIPTION

TE003514 1 UNIT x MOBILE BATCHING PLANT ECA-MIX 1000 AGGREGATES HOPPERS.

4 hoppers in panel with total capacity of 12 cubic meters.

Made of steel plate thickness 4,5 and 8 mm. structure made of cold rolled steel sections.

Discharge by 4 unloading gates actuated by pneumatic cylinders with adjustable opening mechanically.

Equipped by two electric vibrators for sand hoppers.

Ready to install system of control for humidity.

WEIGHTING & TRANSPORT SYSTEM FOR AGGREGATES

Weighting hopper with capacity of 2.300 kg per batch (1 cubic m per batch).

Made of steel plate thickness 5 mm.

Weighting system by 6 load cells.

Weighting hopper equipped by an electric vibrator.

Conveyor belt for the transport of aggregates with 600 mm grooved belt.

Structure for the conveyor belt made of folded steel plate thickness 6 mm.

Kits of three throughing idlers Ø89x200 mm (V shape).

Distance between kits 300 mm in the weighting area.

Ø325x650 mm drive pulley with rubber covering

Tension pulley Ø275x650 mm.

Turning detection device installed in tension pulley.

9,2 kW geared motor.

WEIGHTING OF CEMENT

Cement scale for maximum capacity 500 kg.

Made of steel stainless plate thickness 3 mm.

Weighting system by 3 load cells equipped with pneumatic vibrator.

Discharge of cement by a Ø219 mm steel screw conveyor.

Geared motor 4 kW.

Joint to mixer by flexible sleeves.

DOSAGE OF WATER

Water supply by dosing water meter, input of 1,5" timed pulses, opening and closing by valves pneumatically actuated.

Water supply by 4 kW pump and regulation system of pressure (control-press).

Water piping made of 2" galvanized pipes.

MIXING AREA

Vertical axle mixer TRH-1500.

Useful capacity of concrete per batch 1.500 l

Tank covered with alloy steel , of high wearing and abrasion HB400.

Mixing axle: equipped by 6 mixing arms with shock absorbers by spring and two scrappers.

Discharge by a hydraulic opening system.

Maintenance gate equipped with electric opening security system.

Dismantled protection coverings.

37 kW geared motor.

PRESSURE AIR INSTALLATION

4 kW installation, capacity 300l.

Watertight panel for kit of pneumatic electro valves.

Full access for maintenance from the main structure.

Pneumatic system equipped by filtering and lubricating equipment.

MAIN STRUCTURE FOR TRANSPORT AND INSTALLATION

Compact equipment for transport.

Made of structural profiles and cold-rolled steel sections.

Telescopic kit to erect the plant.

Access stair from ground floor to dosing and mixing area, equipped by steps and intermediate landing.

Lateral folded footbridges for access to areas which require maintenance.

Structure mounted on a twin wheel axle equipped with ABS brakes system.

Landing gear with compensating foot.

Anchoring structure "without foundations" by an adjustable base for a dense land.

CONTROL AND POWER PANNEL

Watertight closet by the compact central set accessible for maintenance.

Automatic and manual operating.

Software ready to be installed, to control de plant management.

Siemens and Tele-mechanic electric mechanisms.

Electric pre-installation.

CONTROL SYSTEM

Watertight closet by the compact central set accessible from the ground level to manoeuvre.

Synoptic LED including stop, go and breakdown signals.

Cantabria microprocessor CA2300 for three weightier.

Dosser LEDs for aggregates cement and water.

Dosser printer.

CPU metallic protection closet.

TE003313 1 UNIT x 55 CEMENT STORAGE SILO 55 Tn. (DETACHABLE).

Capacity: 55 Tn. (45,8 m3).

Made in two dismantled parts one inside other to make easier the transport.

Diameter part I: 2.320 mm.

Diameter part II: 2.240 mm.

Total height of the silo (without banisters): 14.710 mm.

Distance between centre of the legs on floor: 1.870 mm.

Total height from the floor to discharge mouth: 2.000 mm.

Detachable legs screwed on for transport purposes.

Reinforcements between legs of the silos made of LPN60x60.

Cylinder and cone made of 3 mm. plate.

Vertical access ladder, in two parts with intermediate landing and security banister.

Security banister at the top.

Inspection gate placed at the top of the silo.

Open/lock manual butterfly system.

Centred discharge cone. 60° inclination.

ø 3,5" filling pipe.

ø4" filling pipe curve made of cast iron and dismantled breather by screw-in flanges.

TE001397 1 UNIT x SAFETY VALVE

TE001393 1 UNIT x SET OF 4 FLUIDIZERS WITH ELECTROVALVES

TE001385 1 UNIT x CARTRIDGE FILTER FOR DUSTY MATERIALS.

Cartridge filter made of aluminium and polystyrol with grooved cartridges made of synthetic material to obtain the highest filtering surface with the smallest dimensions.

Including pneumatic cleaning system by air timed pulses of compressed air.

Filtering surface: 24.5 sq m.

Electronic control board.

Power: 220/380 V.

Working pressure: 6-7 bar.

TE003513 1 UNIT x SCREW CONVEYOR.

Diameter: 219 mm.

Length: 8,75 m.

Through and screw made of steel.

12,5 hp geared motor, at 229 r. p. m., directly fixed to the shaft.

Capacity: 60 Tn /h.