

TECHNICAL DOSSIER

MOBILE CONCRETE BATCHING PLANT

COMPACT II

THEORICAL PRODUCTION CAPACITY....120m³ PER HOUR

AGGREGATES CAPACITY.....4 HOPPERS IN PANEL X 20m³ (80m³)

MIXING CAPACITY PER BATCH.....3m³

TYPE OF MIXER.....TWIN SHAFT MIXER

CEMENT CAPACITY2 X 55 TN (110 TN)

TOTAL POWER.....192 KW

ABSORBED POWER.....170 KW

TECHNICAL DESCRIPTION

TE003515 1 UNIT. x AGGREGATTES FEEDING SYSTEM

Collecting hopper made of 4 mm steel plate with capacity of 4, 5 cub m. with free discharge system and electric vibrator.

Equipped by support with selector panel for aggregates.

Conveyor belt with chassis made of folded steel plate with a length of 22.060 mm and wide of 600 mm. with grooved belt. 12, 5 HP geared motor at 93.3 rpm.

Kit of 2 throughing idlers with separation between kits of 1.000 mm.

Vulcanized drive pulley of 325 mm.

Equipped by turning detection device and emergency stop switch by cable.

Plastic covering.

Electric turning distributor for 4 aggregates.

Turning transmission by 0,25 HP electric geared motor.

Actuated from selector panel placed at the collecting hopper of aggregates.

Light signals installation for the positioning of the distributor both of outside and inside the housing of the aggregates hoppers as well as acoustic alarm installation inside the housing.

Anti-wearing steel linings.

Equipped with maximum level system for aggregates hoppers.

Access footbridges for maintenance and inspection.

TE003516 1 UNIT. x AGGREGATTES HOPPERS

4 hoppers in panel with total capacity of 80 cubic m.

Made of steel plate thickness 4, 5 and 8 mm.

Support 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 sondes for humidity.

WEIGHTING & TRANSPORT SYSTEM FOR AGGREGATTES.

Weighing hopper with capacity of 7.000 kg per batch (3 cubic m. per batch).

Made of steel plate thickness 5 mm.

Weighing system by 6 load cells.

Weighing hopper equipped by two electric vibrators.

Conveyor belt for the transport of aggregates with 800 mm. grooved belt.
Structure of the conveyor belt made of folded steel plate thickness 6 mm.
Kits of three throughing idlers Ø89x250 mm.
Distance between kits 300 mm in the weighing area.
Ø400x850 mm drive pulley with rubber covering.
Tension pulley Ø275x850 mm.
Turning detection device installed in tension pulley.
Double 9.2 kW geared motor.

WEIGHING OF CEMENT

Cement scale for maximum capacity 1.500 kg.
Made of steel stainless plate thickness 3 mm.
Weighing system by 3 load cells.
Scale equipped with two pneumatic vibrators.
Discharge of cement by two Ø250 mm butterfly valves with pneumatically actuated.
Joint to mixer by flexible sleeves.

WEIGHING AND DOSAGE OF WATER.

Water scale for maximum capacity 750 l.
Made of steel stainless plate thickness 3 mm.
Weighing system by 3 load cells.
Discharge of water by 5" butterfly valve pneumatically actuated.
Additional water supply by dosing water meter, input of 1, 5" timed pulses, opening and closing by valves pneumatically actuated.
Water supply by 5, 5 kW pump and regulation system of pressure (control-press).
Water piping made of 3" galvanized pipes.

MIXING AREA

Useful capacity of concrete per batch 3.000 l. (3 cubic m).
Omega shaped tank covered by cast iron plates.
Discharging system placed at the centre of the bottom part.
Discharging gate equipped by watertight rubbers.
2 kW motor for the opening of the gate.
8 mixing arms and 2 scrappers per shaft.
Covering of the bottom of the tank made of NY-HARD plates.

Lateral coverings made of steel CR-321.
Mixing paddles of NY-HARD cast iron.
2 x 50 kW mixing motors.
Centralized lubricating equipment for all watertight components.
Auxiliary pump for emergency opening.
24 V. electro valve.
380 V. wiring with connection box.
Maintenance gate equipped with electric opening security system.

PRESSURE AIR INSTALLATION

7,5 kW installation, capacity 500 l.
Watertight panel for kit of pneumatic electro valves.
Full access for maintenance by footbridge.
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.
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.

DOSING CABINE

Prepared for the installation of the control and Management equipment of the plant.
Dimensions 1900 x 1750 x 250 mm.
Galvanized door for the access.
Aluminium window including protection grille.
Wiring for power points and lighting.
12000 BTU.'s air conditioning.

CONTROL AND POWER PANEL

Watertight panel placed into the dosing cabin.

Switch panel and operating chart placed on the doors of the power panel.

Automatic and manual operating.

Equipped with electric mechanisms Siemens and Tele-mechanic.

Electric pre-installation of the plant made at our premises.

INFORMATION SYSTEM KOBETON FOR AUTOMATION AND MANAGEMENT OF THE CONCRETE BATCHING PLANT.

Management of discharging with and without mixer.

Kobeton controller with 48 outputs/ 24 inputs.

4 analogy/digital channels.

64 kb memory.

Two cards of 48 relays 8A.

Automation and management information system Kobeton.

Functions:

Dynamic control of the discharging.

Automatic start-up of vibrators and fluidizers.

Automatic tare per batch.

Security control of scales.

Dynamic corrections per batch.

Register of manual operating.

Quick dosing of products by orders.

Modification of formulas and key codes.

Creation of orders and printing of delivery notes.

Stock control.

Hardware components:

19" LCD screen VGA DVI-D.

Pentium Dual core 2,5 GHz RAM 2 Gb.

Memory DDR Kingston 2 Gb 400 Mhz.

HD 250 Gb. Seagate Barracuda SATA 7200 rpm.

Integrated accelerator card NVIDIA 128 Mb.

DVD recorder.

Keyboard and optical mouse.

Printer Epson LX 300+II

UPS Salicru 700VA SLC-700 LINK
On-line operating.
EMI/RFI filter included.
Communication port RS-232/USB.
Puissance margin from 160 to 240 V.

TE003313 55 1 UNIT. x 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 centres 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.

TE003493 1 UNIT. x 55 TON DETACHABLE CEMENT SILO

Capacity: 55 Ton (45,8 m3).
Made in two different parts screwed-in to make easier the transport.
Part I diameter: 2.320 mm.
Part II diameter: 2.240 mm.
Total height of the silo (without banisters). 14.710 mm.
Distance between legs: 1.870 mm.
Height of discharge: 2.000 mm.
Detachable legs screwed-in for transport purposes.
Reinforce between legs made of LPN60x60

Made of 3 mm. steel plate.
Safety banister at the top.
Inspection gate for maintenance placed at the top.
Opening/blocking manual butterfly valve.
Centred unloading cone. 60° pitch.
Filling pipe ø 3,5".
Curve of filling pipe made of cast iron ø 4".

TE001393 2 UNIT. x SET OF 4 FLUIDIZERS WITH ELECTROVALVES

TE001397 2 UNIT. x SAFETY VALVE

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.

TE001379 1 UNIT. x CONNECTION PIPE BETWEEN SILOS.

TE002566 1 UNIT. x TOP SILOS COMUNICATION FOOTBRIDGE

Tread plate floor.
Safety banisters & skirting boards.

TE003517 2 UNIT. x SCREW CONVEYOR

Diameter: 275 mm.
Length: 13.300 mm.
Through and screw made of steel.
20 HP geared motor at 240 rpm. directly fixed to the shaft.
Including 2 intermediate hangers with friction bearings.
Production: 80 TN/h.