MÜHENDİSLİK

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Crushing & Screening | Concrete Batching | Asphalt Mixing Plants & Machinery Technologies

FIXED CONCRETE PLANT
TTC-B-160S

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EQUIPMENT LIST

No	EQUİPMENTS	DESCRIPTION	Qty
1.	Aggregate Hopper	4x40 = 160m³	1
2.	Aggregate Weighing Hopper	6m³	1
3.	Aggregate Weighing Conveyor	1200x14600 mm	1
4.	Aggregate Transfer Conveyor	1200x30000 mm	1
5.	Mixing Unit Equipment		1
5.1.	Aggregate Bunker	6m³	
5.2.	Cement Weighing Hopper	2500 kg	
5.3.	Water Weighing Hopper	1300 lt	
5.4.	Additive Weighing Hopper	50 kg	
5.5.	Compressor	500lt 7,5Kw	
5.6.	Pneumatic system		
6.	Twinshaft Mixer Hardox Side walls armor , Ni-Hard Paddle armor	6000 litres / 4000 litres	1
7.	Automation System - Air Conditioned Cabin		1

Technicial Specifications

1. Aggregate Hopper

Machine Name	:	Aggregate Hopper
Number of Bunker Hopper	:	4
Chamber Volume	:	40m³
Total Volume	:	160m³ (4*40m³)
Bunker Kapakları	:	5mm thick, ST37-A1 Quality, It is produced with Sheet Metal in Twisted Trapeze Form. Bunker Covers are bolted to each other and wedged to the chassis. It is hinged on the chassis so that it goes on the
Number of Discharge Shots	:	There are 2 Outlet Chutes for each chamber. The funnel part is 6mm thick. Discharge chute is produced from 8mm thick ST37 A1 Quality Sheet Metal.
Discharge Cover	:	It is supported by a joint bearing. It is produced from 10mm thick ST37 A1 Quality Sheet.
vibromotor	:	2 x 0,37 kW 1500 rpm Vibro Motor
Pneumatic System	:	1 Pneumatic Piston is used for each outlet cover. Top class products such as Expflex brand pistons and valves are preferred.
Platform	:	There is a maintenance platform and a guard system around the bunker.

2.Aggregate Weighing Hopper

Machine Name	:	Aggregate Weighing Conveyor
Volumetric Capacity	:	6m³
Weighing Capacity	:	10000 kg
Body	:	It is produced with 6mm thick, ST37-A1 Quality Sheet Metal by welded manufacturing method.
Loadcell	:	4 pieces of 10 Ton Flat Bar are used.
Vibromotor	:	1 Adet 0,27kW 1500rpm Vibromotor
Breakwater	:	There is a breakwater that can be adjusted in height to adjust the flow rate.
Front cover	:	In order to interfere with the discharge speed of the material, there is a mechanically adjustable cover in the discharge direction of the collection conveyor.
Weighing System	:	It is coupled with the collection conveyor. Suspended together with loadcells, it forms the aggregate weighing system.

3. Aggregate Weighing Conveyor

Machine Name	:	Aggregate Weighing Conveyor
Dimensions	:	1200x14600 mm
Engine	:	15 kW 1500 rpm
Bearing	:	SKF or FAG Brand SNL Type Drive Bearing SKF or FAG Brand UCT Type Tail Bearing
Drive Drum	:	Ø324 - 10mm Rubber coated
Tail Drum	:	Ø274
band	:	4 kat 4/2 EP125 , V type
Conveyor Chassis	:	"8mm thick, ST37-A1 Quality, It is produced by welded fabrication with Twisted Sheet Metal. "
Scraper V type	:	1 piece is used to clean the inside of the tape.
Direction Reel	:	Belt slippage is prevented with a total of 4 directional rollers with a diameter of Ø89 mm at the front and a diameter of Ø60 mm at the rear.
Carrier Roller	:	3 roll system is used. Side rolls are angled at 30°. The rolls are Ø89x325 mm.
Return Roll	:	It is Ø89x1020mm in size.

4. Aggregate Transfer Conveyor

Machine Name	:	Aggregate Transfer Conveyor
Dimensions	:	1200x30000 mm
Engine	:	37 kW 1500rpm
Reducer	:	DİŞSAN DG2-280 Reducer Brake Type
Bearing	:	SKF or FAG Brand SNL Type Drive Bearing SKF or FAG Brand UCT Type Tail Bearing
Drive Drum	:	Ø324 - 10mm Rubber coated
Tail Drum	:	Ø274
band	:	4 kat 4/2 EP125 , V type
Conveyor Chassis	:	It is produced from box profile, with a cage system design, by welded manufacturing.
Scraper V type	:	1 piece is used to clean the inside of the tape.
Direction Reel	:	Belt slippage is prevented with a total of 4 directional rollers with a diameter of Ø89 mm at the front and a diameter of Ø60 mm at the rear.
Carrier Roller	:	3 roll system is used. Side rolls are angled at 30°. The rolls are Ø89x400 mm.
Return Roll	:	It is Ø89x1220mm.
Platform	:	There is a one-sided walkway and guardrail system along the Conveyor Line.
Conveyor Protection	:	The upper part of the belt conveyor is closed in order to protect it from all kinds of external environment. The aggregate is transported up to the mixer upper group in a closed environment.

5. MIXING UNIT

"The main carrier chassis pouring height is 4250 mm and its design as welded construction from HEA, NPU and IPE Profiles is made of high quality steel, taking into account DIN standards and ISO 9001 quality standard.
All the components described below are located on the same frame equipped with the platform, ladder and railings."

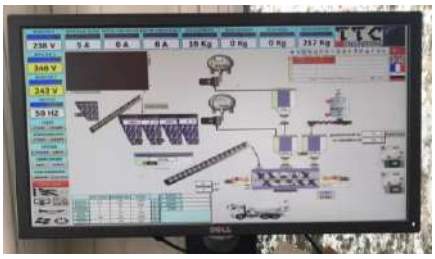
AGGREGATE HOLDING HOPPER	:	"6 m³ capacity Pneumatic Side Valve 1 Piece, MVE100/3 Vibromotor"
CEMENT WEIGHING HOPPER	:	2800 kg capacity 3x2000 kg Loadcell 1 Piece, MVE100/3 Vibromotor Ø300 mm Pneumatic Valve Pneumatic Valve : 1/4" SMS Driver: CP 101
WATER WEIGHING HOPPER	:	1300 Liter Capacity 2x1000 kg Loadcell Ø200 mm Pneumatic Valve Pneumatic Valve : 1/4" SMS Driver: CP 101
ADDITIVE WEIGHING HOPPER	:	50 kg Capacity S Type 100kg Loadcell 1” Actuated Valve Pneumatic Valve : 1/4" SMS
COMPRESSOR	:	"827 l/min Flow Rate 7,5 kW Engine 500 l Tank Volume 6-8 bar Working Pressure"

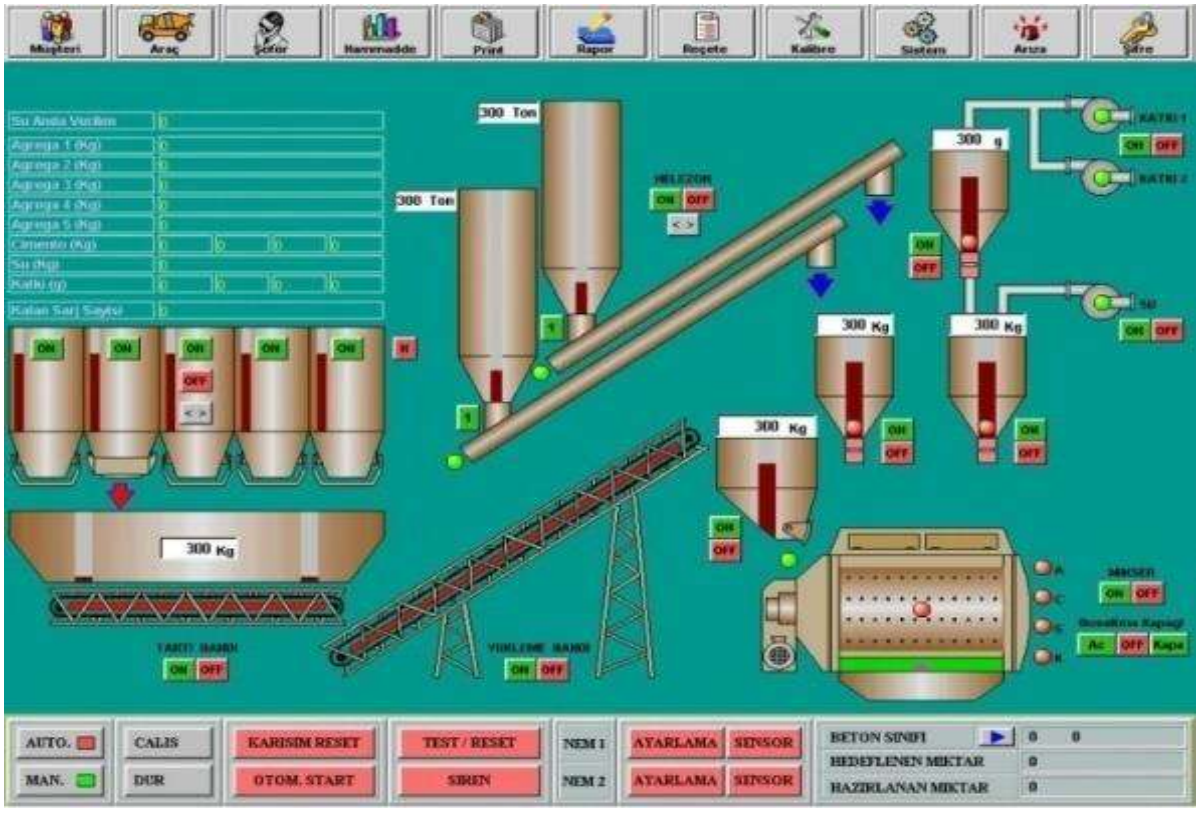
6. Twinshaft Mixer | 6000 lt / 4000 lt

Origin	:	Türkiye
Model	:	TTC-TS-4.0
Dry concrete capacity	:	6000 lt
Compacted concrete capacity	:	4000 lt
Engine and Reducer	:	2 Pcs 75 kW Motors 2 Pcs Ermaksan
lining Guard	:	Ni-Hard / Hardox 500 In the interior where the mixing takes place, the entire body surface is covered with wear-resistant replaceable linings. Thus, it has a very long working life.
Paddles	:	Ni-Hard Casting
Mixing System		The mixing process is carried out by two shafts rotating in opposite directions on which the arms and pallets are mounted. Arms and pallets connected to these shafts allow the materials required for concrete to be mixed homogeneously as soon as possible. There is no area that the pallets do not scan in the internal volume of the mixer.
Minimum Duration	:	It is very important to complete the ready mixed concrete production as soon as possible. The full contact of cement and aggregate with each other ensures that the concrete has a high strength and the expected quality is achieved.
Auto Lubrication System	:	With 4 Point Lubrication, it comes pre-installed on the mixer. When lubrication is not possible thanks to the sensors located at the required points, it gives an audible and light warning on the computer.
Body	:	The body is produced with a welded joint in a high-strength structure with its design and material quality. The body is designed to be highly resistant to the tensile forces created by two separate shafts during mixing.
Hydraulic System	:	The mixer outlet cover is connected to the hydraulic piston. This hydraulic piston is also driven by a power unit. By being coupled to the automation system, full opening and full closing of the discharge cover is ensured at the desired time.

7. AUTOMATION SYSTEM

PLC	:	Control management operations are carried out using the PLC. Thanks to the PLC control, high weighing and dosing accuracy is obtained, including at high productivity, and an error control algorithm
fuse	:	The MCC and the control panel are equipped with electrical fuses and are designed to operate in harsh conditions
Operating Panel	:	All kinds of parameter settings, operations with receipts and with calibration can be carried out from the screen of the operator panel. You can get reports on operations, product and errors.
Operating System	:	The system can be turned on automatically or manually from the screen of the mimical diagram. Voltage and alperage data can be tracked on digital screens.
SCADA	:	Using a computer, operations such as management control, reports of all kinds, error reports and others are carried out. Scada system package includes an animation screen, computer, printer and UPS.
Reporting	:	Possibility of archiving and tracking of receipts, invoices, invoices, customers and vehicles for 1 year.





"TTC Engineering, with its sectoral experience of more than 20 years, ensures that the highest quality concrete can be produced in accordance with the recipe, thanks to the automation system which is specially designed.

The fully automatic automation system with software, hardware and panel, which allows all equipment to work in sync, ensures that the concrete is produced in the desired recipe with the fastest and most accurate mixture.

It continuously pulls data from weigh batches. With the continuous processing of these data, it ensures that the products in the concrete recipe are delivered to the mixer correctly in order to produce the concrete with the desired properties. It ensures the operation of bunker covers, belt motors, mixer motors, scale flaps, cement auger at the right time."

TTC ENGINEERING

CONCRETE
Batching Plants

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