



FIXED CONCRETE PLANT TTC-B-60S



EQUIPMENT LIST				
No	EQUIPMENTS	Description	Qty	
1.	Aggregate Hopper	4x20 = 80m³	1	
2.	Aggregate Weighing Hopper	1,5m³	1	
3.	Aggregate Weighing Conveyor	800x12500 mm	1	
4.	Aggregate Transfer Conveyor	800x25000 mm	1	
5.	Mixing Unit Equipment			
5.1.	Aggregate Bunker	1,5m³		
5.2.	Cement Weighing Hopper	600 kg		
5.3.	Water Weighing Hopper	300 lt	1	
5.4.	Additive Weighing Hopper	30 kg		
5.5.	Compressor	300 lt	1	
5.6.	Pneumatic system			
6.	Twinshaft Mixer Hardox Side walls armor , Ni-Hard Paddle armor	1500 / 1000	1	
7.	Automation System - Air Conditioned Cabin		1	



Technicial Specifications

1. Aggregate Hopper

Machine Name : Aggregate Hopper

Number of Bunker Hopper : 4 Chamber Volume : 20m³

Total Volume : 80m³ (4*20m³)

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 machine during

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 0,27 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 Hopper

Volumetric Capacity : 1,5m³ Weighing Capacity : 2000 kg

Body : It is produced with 6mm thick, ST37-A1 Quality Sheet Metal by

welded manufacturing method.

Loadcell : 4 pieces of 2 Ton Flat Bar are used.

Vibromotor : 1 Adet 0,18kW 1500rpm Vibromotor

breakwater : There is a breakwater that can be adjusted in height to adjust the

flow rate.

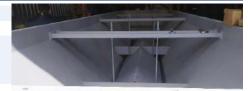
Front cover : In order to interfere with the discharge speed of the material,

there is a mechanically adjustable cover in the discharge direction $% \left(1\right) =\left(1\right) \left(1\right)$

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
 : 800x12500 mm

 Engine
 : 7,5 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 \emptyset 89 mm at the front and a diameter of \emptyset 60 mm at

the rear

Carrier Roller : 3 roll system is used. Side rolls are angled at 30°. The rolls are

Ø89x255 mm.

Return Roll : It is Ø89x820mm in size.



4. Aggregate Transfer Conveyor

Machine Name : Aggregate Transfer Conveyor

Dimensions : 800x25000 mm Engine : 15 kW 1500rpm

Reducer : DİŞSAN DG2-250 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

Ø89x255 mm.

Return Roll : It is Ø89x820mm in size.

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 : "1.5m3 capacity

BUNKER Pneumatic Side Valve

1 Piece, MVE100/3 Vibromotor"

CEMENT WEIGHING HOPPER : 600 kg capacity

3x1000 kg Loadcell

1 Piece, MVE100/3 Vibromotor Ø300 mm Pneumatic Valve Pneumatic Valve : 1/4" SMS

Driver: CP 101

WATER WEIGHING HOPPER : 300 Liter Capacity

2x1000 kg Loadcell Ø200 mm Pneumatic Valve Pneumatic Valve : 1/4" SMS

Driver: CP 101

ADDITIVE WEIGHING HOPPER: 30kg Capacity

S Type 100kg Loadcell 1" Actuated Valve

Pneumatic Valve: 1/4" SMS

COMPRESSOR : "430 I/min Flow Rate

5.5 kW Engine 300 l Tank Volume 6-8 bar Working Pressure"







6. TwinShaft Mixer

Origin Turkey TTC-TS-1.0 Model Dry concrete capacity 1500 lt

Compacted concrete capacity: 1000 lt

Engine and Reducer 2 x 18.5 kW Motors 2 Pcs of Ermaksan

: Ni-Hard / Hardox 500

lining Guard 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.

Ni-Hard Casting **Paddles**

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.



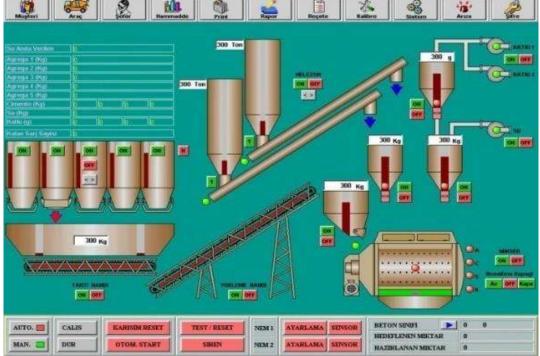




7. AUTOMATION SYSTEM

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."









CONCRETE

Batching Plants

