



ORIGIN	SEMIX & TURKEY
MODEL	1 M3 PLANETARY STATIONARY CONCRETE BATCHING PLANT
MIXER	SEMIX 1500/1000 lt – PLANETARY MIXER
VOLTAGE	380 V / 50 Hz

1. TECHNICAL SPECIFICATIONS

1.1. PLANETARY MIXER 1 M³

- Brand & Model : Semix SMP 1500/1000 lt – Planetary Mixer
- Loading Capacity : 1500 lt
- Compacted Concrete Capacity : 1000 lt
- Electric Motor : 1 Unit 45 KW COBRA Gearbox
- Internal Wearing : **Hardox**
- Mixing Blade : **Ni-Hard 4 (Chrome, Nickel special cast iron)**
- Stripping Blade : **Ni-Hard 4 (Chrome, Nickel special cast iron)**
- Discharge Door : Hydraulic
- Discharging in Emergency Situations : Present - Manual Pump
- Water Dispenser : Present - 1 Unit
- Emergency Stop Button : Present - 1 Unit
- Maintenance Cover Safety Switch : Present - 1 Unit
- Environment friendly and safety devices according to the European Standards.





1.2. MAIN CHASSIS

1.2.1. CEMENT WEIGHING BUNKER

- Bunker Capacity : 500 kg
- Load-cell : Capacity of 500 kg -3 Units
- Valve : Diameter: 200 mm Butterfly Type -1 Unit
- Valve Switch : MS13
- Actuator : Pneumatic Actuator- 1 Unit
- Vibrator : 60/3-1 Unit

1.2.2. WATERWEIGHING BUNKER

- Bunker Capacity : 300 lt
- Load-cell : Capacity of 500 kg - 2 Units
- Valve : Diameter:150 mm Butterfly Type -1 Unit
- Valve Switch : MS 13
- Actuator : Pneumatic Actuator- 1 Unit

1.2.3. ADDITIVE WEIGHING BUNKER

- Bunker Capacity : 20 lt
- Load-cell : Capacity of 100kg -1 Unit
- Valve : ball valve with actuator - 1 Unit

1.2.4. COMPRESSED AIR INSTALLATION

- Air Tank Pressure & Volume : 1000 lt/minute flow rate and 300 lt air tank volume
- Working Pressure : 6-8 Bar

1.2.5. WATER INSTALLATION

- 1 set of over the concrete mixing plant pipe installation, pneumatic flap included.
- Important Information: Water booster and water installation up to the concrete batching plant chassis belong to the buyer.



1.3. AGGREGATE STORAGE INLINE TYPE

- Aggregate Bins Capacity & Quantity : 40 m3 – 20 m3 capacity each one – 2 bins
- Bunker Discharging Gate(s) : 2 Gates in each bin – Totally 4 Discharging Gates
- Vibrator Brand & Capacity : 200/3 – 1 Unit
- Pneumatic Piston Brand & Capacity : DSBC 80-250 Piston – 4 Units - **FESTO (German)**
- Pneumatic Valve : 4 Units - **FESTO (German)**
- Air Conditioner : 1 Unit - **FESTO (German)**

WEIGHING CONVEYOR

- Belt Quality : EP 125 / 4 coats
- Load-cell : Capacity of 2000 kg - 4 Units
- Motor Power : 7,5 kW – 1 Unit
- Vibrator : 200/3 - 1 Unit
- Drums : 10 mm Rubber Coated
- Bearings : Lubrication Grease Nipple over SNH series
- Scraper : V type with its weights -1 Unit
- Emergency Stop Button : 1 Unit
- Pull-rope Switch : 1 Unit



1.4. SKIP HOIST SYSTEM

- Bucket Capacity : 1 m3
- Motor Power : 1 Unit - 15 kW
- Frequency Inverter : 1 Unit
- Railway & Drum & Rope : 1 Unit
- Position Indicators : 3 Units

1.5.AUTOMATION SYSTEM

- **Production Screen;**You can monitor process of the operation on the animation screen, which is infrastructure by Microsoft DirectX. During the producing, required values, measurement values and differences of values will be shown. Following of the measured will be checked by the system during the process and it will be shown on automation screen with error sound if there is a problem. It can add or discharge water automatically without changing value of cement, during the process.
- **Entering;**You can change the value of production to add or discharge while you are producing your order. You can portray unlimited customer, target, transfer with different drivers. Definition of silo and material can be changed and checked by the operator easily on the computer.
- **Settings;** The automation system uses lots of parameters, that was designed to be understandable easily for any user; to get most efficient performance. Also, the settings can be locked not to be changed by workers.
- **History;**When user want, he can checked old production records or details. And if there is need, the old production records or details can be printed any time.
- **Reporting;** The program saves unlimited production record in database, so you can get report (production, receipt, customer, field work, etc.) with different time periods as daily, weekly, monthly, yearly when it is needed. Reports can be printed or forward them to excel or PDF files. Also, Stock reports can be get at the same way.
- **Delivery Note;**You can print delivery note after or before the manufacture. If you don't want to print at that time, you can print them from the database when it is needed. Also you can split or merge manufactures' delivery note when it is needed them. After manufacturing, if customer changes, You can change the new customer and reprint a new delivery note.
- **User Permissions;** You can limit operators or any user permissions when it is needed.
- **Manufacturing from Orders;** You can define daily order list to the program and ordered lists can be produced through the program. You can monitor orders produced and remaining time by time.
- **Planned Manufacture;** Before manufacturing is completed, you can enter the next production to program. If you save the next production record to program, after the last production finish, the next production will start automatically.
- **Internet;**The program is designed to be controlled via the internet. By via internet, you can do reporting, editing, deleting or viewing (receipts, field work, customers, production details, etc.) . Also, you can create, remove or edit order records for defined user rights. Reports may print or save on PDF, Excel by using via internet. For using via internet, you should get a static ip. Infrastructure for internet (staticip, internet line, etc.) will be provided by yourself. P.S.: Internet features are optional and requires additional charge.
- **Remote Support;**If you have an internet connection in cabin, we can help and solve problems quickly and you will have technical support about automation program.





1.6. CONTROL CABINE

- Split type A/C Unit : 1 Unit
- Exterior Surface Cladding : Painted galvanized steel sheet.
- Interior Surface Cladding : 12 mm in thickness chipboard.
- Insulation : 50 mm in thickness hard-foam polystyrene.
- Windows : PVC
- Electrical installation together with receptacle and switch is present in the cabin.

1.7. CEMENT SILO

- Capacity / Quantity : 80 tons bolted type / 1 Unit
- The ship ladder, upper balcony platform, handrails, elevation legs and maintenance manhole cover are the standard accessories of the silo.

1.8. CEMENT SILO EQUIPMENTS – 1 SET

- Silo Safety Valve : 1 Unit
 - Silo Level Indicator : 2 Units
 - Silo Air Jet : 6 Units
 - Silo Lower Flap and Flap arm : 1 Unit
- Pneumatic Piping Installation FR Filter regulator, 3/4" pulse valve included.

1.9. CEMENT SCREW CONVEYOR

- Screw Brand - Quantity : 1 Unit
- Dimensions : Diameter 219 mm

1.10. SILO FILTER

- Filter Brand - Quantity : 1 Unit
- With Jet pulse (Compressed Air) Cleaning System, with electronic control, Air filtering flow rate of with total 2.200 – 2.500 Nm³/h capacity. Ø 800 mmdiameter 1 mm AISI 304 material body.



1.11. ADDITIONAL CONVEYOR BELT

- Conveyor Length : 15 m

1.12. GRIT BLASTING AND PAINTING

- SA 2 ½ Standard **Grit-Blasting** Process (40-micron depth of surface)
- **Double-component polyurethane base painting**
- Primer coat: 60-70 Micron for primer coat
- Top coat :70-80 micron



*Technical specifications can be changed according to settlement and demands. SEMIX Industry shall retain the right of changes in technical details, because of settlement, special offers, etc.

2. SALES CONDITIONS

In this part you will find guarantee conditions, commissioning of the concrete mixing plant and responsibilities of the BUYER.

2.1. GUARANTEE CONDITIONS

- Concrete Mixing Plant has been taken under guarantee from the date of commissioning in the installation site for a period of 12 months by SEMIX.
- Those deficiencies that originate from the faulty use or faulty or missing maintenance of the Concrete Mixing Plant or that originate from the normal wear and tear of the parts that operate together with those damages that may occur due to natural disasters, fire, theft, seizure, etc. that are not covered by warranty.
- The boarding and accommodation costs of the team that will be sent for those deficiencies that may occur (within 1 year) after the installation of the Concrete Mixing Plant will be on buyer's account, 500 euro per day.
- Electric motors and electrical switch gear equipment is not covered by warranty. Electrical problems, voltage fluctuations and parts affected by power failure that are not covered by warranty.

2.2. COMMISSIONING OF THE CONCRETE MIXING PLANT

- If needed, 1 authorized technical personnel will be provided as supervisors for the installation and the commissioning process of the Concrete Mixing Plant for mechanical and automation commissioning for 5 days. The trip, boarding and accommodation costs of the installation team belong to your party. (Optional, not included)

2.3. RESPONSIBILITIES OF THE CLIENT

- The transportation costs are on the buyer's account (inclusive of the way insurance and other insurances).
- The application Works concerning installing the Concrete Mixing Plant, the civil construction project, and the civil construction are on the buyer's account. The installation site will be prepared according to the layout project that would be supplied by SEMIX.
- The calibration weights and the materials that would be needed while commissioning the Concrete Mixing Plant and continuously will be supplied by the buyer's party.
- The part of the electric energy of the Concrete Mixing Plant cables up to the command panels will be supplied by your party.
- The provision of water to the water bunker belong to the buyer, (at the desired quantity and pressure) and the water pump and the water pressurizing System belong to the BUYER account.
- The boarding and accommodation costs of the installation team will be on the buyer's account.
- The provision of the necessary crane and the other means and apparatuses needed for the installation and additional workers belong to the buyer's account. If the preparation time or time period that is agreed by parts pass, the buyer will be liable for our deficit, that is 500 euro per day.
- SEMIX shall not be liable for any indirect losses, loss of profit, loss of use, loss of production or loss of opportunity suffered by the BUYER, howsoever arising in connection with the supply of Goods under this Contract.
- SEMIX shall not be liable to the BUYER as a result of any delay or failure to perform its obligations under this Contract as a result of a Force Majeure Event.
- For the purposes of this Contract, Force Majeure Event means an event beyond the reasonable control of the SEMIX including but not limited to strikes, lock-outs or other industrial disputes (whether involving the workforce of the Supplier or any other party), failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, pandemic, compliance with any law or governmental order, rule, regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm or/and default of suppliers or subcontractors used by the SEMIX.
- Semix Industry shall retain the right of changes in technical details, because of settlement, special offers, etc. Capacity of the batching plant, silo is variable according to the mass production and mixing time of concrete type.