

# SEMIX MOBILE 60 V

## MOBILE CONCRETE BATCHING PLANTS



SMX-J-2307031437-0

### PROPOSAL

#### SAS LOC&MAT

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#### Delivery

8-10 weeks

#### Validity Of Offer

18-07-2023

#### Terms Of Payment

%50 Advance, %50 Before Shipment



## MOBILE 60 V

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
1) MOBILE 60 V	1	€155,000.00	€155,000.00
1.1) 60V MOBILE CONCRETE BATCHING PLANT'S TOTAL CAPACITY: 60 M <sup>3</sup> /H	1	-	-
1.2) MIXER TYPE & CAPACITY: 1875/1250 (1.25 M <sup>3</sup> ) SEMIX SINGLE SHAFT MIXER	1	-	-
1.3) MIXER MOTOR POWER: 37 KW	1	-	-
1.4) AGGREGATE BIN CAPACITY: 4 X 10 = 40 M <sup>3</sup> SQUARE BINS	1	-	-
1.5) AGGREGATE WEIGHING SYSTEM: WEIGHING CONVEYOR BELT	1	-	-
1.6) AGGREGATE TRANSFER MECHANISM: SEPERATE WEIGHING CONVEYOR	1	-	-
1.7) COMPRESSOR: PRESENT	1	-	-
1.8) CEMENT WEIGHING HOPPER: 600 KG	1	-	-
1.9) WATER WEIGHING HOPPER: 300 KG	1	-	-
1.10) ADDITIVE WEIGHING HOPPER: 20 LITRES	1	-	-
1.11) ADDITIVE PUMPS: 1	1	-	-
1.12) SOFTWARE: SEMIX (SQL BASED)	1	-	-
1.13) ELECTRICAL PANEL COMPONENTS: SCHNEIDER (INCLUDING PLC)	1	-	-
1.14) CONTROL CABINE: PRESENT	1	-	-
		Subtotal:	€155,000.00
		Discount:	-€15,000.00
		Total:	€140,000.00
<b>TRANSPORTATION</b>			
		Mobile 60 V - (EXW Ankara)	€0.00
		General Total:	€140,000.00



SEMIX Mobile 60V is equipped with 1875/1250 liters capacity Concrete mixers which can be a single shaft, twin shaft, or planetary type mixers. In SEMIX Concrete Mixers NiHard4 or Hardox 450 wearings are used according to the Concrete recipe's silicium ratio.

SEMIX Mobile 60V performs with a square-shaped aggregate storage hopper which can be fed with two ramps or with a prefeeding conveyor for aggregates.

All SEMIX Aggregate Storage hoppers are bent trapezoidal shape for having an extra strength. In the 60V model unlike the competitors, SEMIX is providing two separate conveyors for weighing & transferring the aggregate. Aggregates are weighed in the weighing conveyor which transfers aggregates to the transfer conveyor. Having two separate conveyors providing accuracy in weighing and performance for reaching higher Concrete outputs.

All SEMIX Concrete Batching Plants are being controlled by a SCADA system with a Schneider PLC integrated. Users can follow all used materials and integrate it their CRM system. SEMIX's engineering team can intervene in the Automation system online to provide service.





## Resilient Body

SEMIX Mobile 60V is offering you the most robust steel form among all mobile concrete batching plants. The high-strength steel structure is flexible and can withstand the heaviest construction loads.

## Smooth Transportation

SEMIX Mobile 60V can be relocated to any place with just one trailer. It can be installed both mechanically and electrically in 2 days. It can be installed anywhere anytime you want, so that it is easy to operate.



## SEMIX Concrete Mixers

In SEMIX **Mobile** 60 Concrete Batching Plants, 1.25 m<sup>3</sup> of compacted concrete output capacity **mixers** are preferred. Depending on requirements, **single shaft**, **twin shaft** or **planetary mixers** can be adapted to the Mobile 60V batching plant. The mixing process is controlled electronically by a mixer-control unit software , which performs as a full automatic unit.

Product Gallery





## 1.25 m<sup>3</sup> Single Shaft Concrete Mixer

Brand & Model : Semix SM 1875 / 1250 lt – Horizontal **Single Shaft Mixer**

Loading Capacity : 1875 lt

Compacted Concrete Capacity : 1250 lt

Electric Motor : 37 kW GAMA/VOLT-1 Unit, with thermic overload switch protection



### Mixing Blades & Wearing Plates

Mixing Blade : Ni-Hard 4 (**Chrome, Nickel special alloy cast iron**)

Stripping Blade : Ni-Hard 4 (**Chrome, Nickel special alloy cast iron**)

Internal Wearing : **HARDOX 450**

Ni-Hard 4 : In all **SEMIX Concrete Mixers**, Ni-Hard 4 alloys are being used in mixer blades. NiHard 4 is a high-strength cast iron alloy that contains 4% nickel and has a tensile strength of up to 1,200 MPa. The nickel in NiHard 4 creates a tough surface that resists abrasion, while the hardening agents make the alloy harder and more resistant to deformation. This structure is ideal for products under conditions of high abrasiveness and high impact conditions. It is commonly used in applications that require high strength. NiHard 4 has a very low coefficient of thermal expansion, which makes it ideal for use in high-temperature applications. NiHard 4 is a type of steel that is very strong and resistant to wear and tear. It is commonly used in industrial applications where durability is key.



### Automatic Lubrication

Lubrication : 4 Points Automatic Lubrication System **SKF - LINCOLN (German)**

Automatic lubrication system is integrated with the PLC and SCADA, the system periodically lubricates the necessary points and preventing from major problems. These systems use sensors to detect the level of lubricant present and dispense the appropriate amount automatically.



Discharge Door : 1 Unit / **Hydraulic**

Discharging in Emergency Situations : Present - Manual Pump

Water Dispenser : Present - 1 Unit

Emergency Stop Button : Present - 1 Unit

Maintenance Door Safety Switch : Present - 1 Unit

## Weighing Hoppers

Cement Weighing Capacity : 600 kg

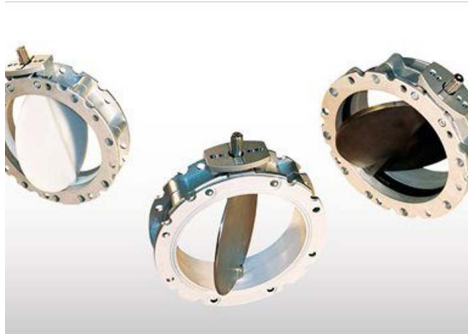
Cement Weighing Load-cells : 3 units 500 kg

Water Weighing Capacity : 300 kg

Water Weighing Load-cells : 2 units 500 kg

Additive Weighing Capacity : 1 x 20 lt

Additive Weighing Load-cells : 1 unit 100 kg



## Weighing Hopper Equipments

Cement Discharge Valve : Ø 200 mm Butterfly Type - **WAM (Italy)**

Cement Hopper Vibrator : 1 unit - **OLI (Italy)**

Water Discharge Valve : Ø 150 Butterfly Type mm - **WAM (Italy)**

Additive Discharge Valve : 1 Unit - 1 ½" ball valve with actuator

## Aggregate Storage Bins

Aggregate Bins Capacity&Quantity : 40 m<sup>3</sup> – 10 m<sup>3</sup> capacity each one – 4 bins (Square)

Bunker Discharging Gate(s) : 1 Gates in each bin – Totally 4 Discharging Gates

Vibrator Brand & Capacity : 2 Units **WAM-OLI (Italy)**

Pneumatic Piston Brand & Capacity : DSBC 80-250 Piston 4 Units – **Festo (Germany)**

Pneumatic Valve : 4 Units – **Festo (Germany)**



## Weighing Conveyor



Belt Quality : EP 125 / 4 coats

Vibrator : 2 Units - **WAM-OLI (Italy)**

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

## Aggregate Transfer Conveyor

Belt Quality : EP 125 / 4 coats

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

Covering over the Belt : Semi-closed with steel sheet





## CONTROL CABIN & AUTOMATION SYSTEM



Air conditioner, electrical connections and lightening - present at control cabin. Power board with manual control system provides production options completely at automatic - mode as well as manual mode. Power board includes safety system protection switches for motors (phase protection relay), circuite breaker in case of overload. All electrical components are SCHNEIDER brand. Full set of computer for automation system with printer/UPS - present.

### **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.

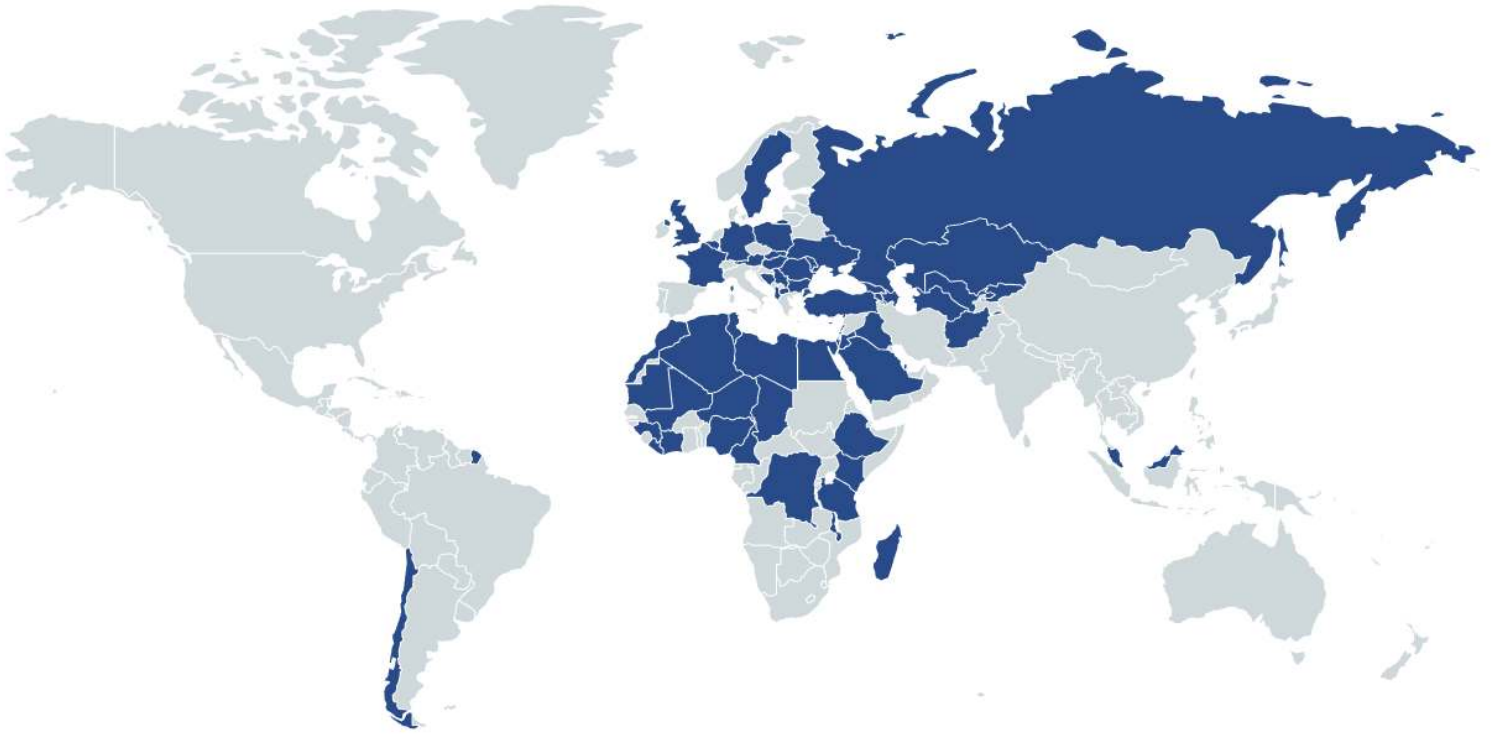
**Manufacturing from Orders;** You can define daily order list to the program and ordered lists can be produced through the program. You can monitor orders produced and remaining time by time.

**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.

# References



**HEIDELBERG**  
CEMENT

**STRABAG**

**LAFARGE**



**HYUNDAI**

**ASTALDI**

**clinotech**

**Limak**

**kalyon**

**CENGİZ**  
İNŞAAT

**KOLİN**

**KİPAŞ HOLDİNG**

**ONUR**  
TAHHÜT TAŞIMACILIK İNŞAAT TİC. VE SAN. A.Ş.

**DANIŞ BETON**  
DİVA İNŞAAT SAN. TİC. A.Ş.

**AKPINAR**

**çiftay**