

# SEMIX MOBILE 60S5 (WITH CONVEYOR BELT)

## MOBILE CONCRETE BATCHING PLANTS



SMX-V-2305181121-10

### PROPOSAL

#### SALD

Mr. Mustafa  
Riyadh KSA

#### Delivery

12 weeks

#### Validity Of Offer

02-06-2023

#### Terms Of Payment

%50 Advance, %50 Before Shipment



**MOBILE 60S5 (WITH CONVEYOR BELT)**

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
1) MOBILE 60 (WITH CONVEYOR BELT)	1	€165,000.00	€165,000.00
1.1) MIXER TYPE & CAPACITY: 1 M <sup>3</sup> PLANETARY MIXER	1	-	-
1.2) MIXER MOTOR POWER : 45 KW	1	-	-
1.3) AGGREGATE BIN CAPACITY : 5 X 10 = 50 M <sup>3</sup>	1	-	-
1.4) AGGREGATE WEIGHING SYSTEM : CONVEYOR BELT	1	-	-
1.5) AGGREGATE TRANSFER MECHANISM: CONVEYOR BELT	1	-	-
1.6) CEMENT WEIGHING HOPPER: 600 KG	1	-	-
1.7) WATER WEIGHING HOPPER: 300 KG	1	-	-
1.8) ADDITIVE WEIGHING HOPPER: 20 LITRES	1	-	-
1.9) ADDITIVE PUMPS: 1	1	-	-
1.10) COMPRESSOR: PRESENT	1	-	-
1.11) AUTOMATION SYSTEM : SEMIX CONTROL SOFTWARE WITH SCHNEIDER ELECTRICAL PANEL ( PC & PLC)	1	-	-
1.12) CONTROL CABINE: PRESENT	1	-	-
		Subtotal:	€165,000.00
		Total:	€165,000.00

**TRANSPORTATION**

	Compact 60 (with Skip Hoist) - (EXW Ankara)	€0.00
	General Total:	€165,000.00

**OPTION 1**

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
1) ADDITIVE WEIGHING HOPPER: 20 LITRES	1	€2,650.00	€2,650.00
1.1) ADDITIVE PUMPS	1	-	-
		Subtotal:	€2,650.00
		Total:	€2,650.00

**TRANSPORTATION**

	General Total:	€2,650.00
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**OPTION 2**

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
2) CEMENT SILO BOLTED TYPE 100 TONS	2	€25,850.00	€51,700.00
2.1) SCREW CONVEYOR Ø 219 MM	2	-	-
2.2) SILO EQUIPMENTS SET	2	-	-
		Subtotal:	€51,700.00
		Total:	€51,700.00

**TRANSPORTATION**

	General Total:	€51,700.00
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## Customized Options

SEMIX is able to design special projects for your requirements with a strong engineering team.

## Patented Aggregate Bin Design

In SEMIX Mobile 60S5 batching plants, only one ramp needed for feeding aggregate bins thanks to its' patented design. Inline aggregate bin structure eliminates the need of installing a pre-feeding conveyor



## High Mobility

Semix Mobile 60S5 can be rapidly assembled in 2 days with its' compact design. It can be relocated to another project easily because of its' high mobility.



## Main Mixing Chassis



General view : The main chassis was built in compliance with international requirements with a transition height of 4,100 mm to 4,250 mm with high-quality steel components and outstanding workmanship. For maneuvering and filling the truck mixer with an average width of 5,000 mm, the main chassis offers great ease. A platform, handrails, and stairs are built into the main chassis.

Supports of the chassis : UNP & INP profiles with extra cross braces.

Concrete discharge funnel : 1 Unit for quick cleaning with inlaid, galvanized bar construction. Highly wear-resistant coating.

Walkways, stairs & railings : At the mixer and at the upper weighing frame, walkways, and platform. 60 ° staircase with grating steps and railings to the mixer floor, with top landing and 60 ° grade tilt.

## Planetary Mixer 1.0 m<sup>3</sup>

Compacted Concrete Per Batch: **1.0 m<sup>3</sup>**

Dry Volume: **1.50 m<sup>3</sup>**

Motor Power: **45 kW**



## 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 : The blades in all of the **SEMIX Concrete Mixers** are made of Ni-Hard 4 alloys, which results in extremely tough and durable blades. NiHard4 is a white cast iron product with nickel and chromium alloying, to give a hard chromium carbide in a martensitic matrix. This sturdy and durable structure can withstand high levels of abrasion and impactions.



## Discharging System

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 150 mm Butterfly Type - **WAM (Italy)**  
Cement Hopper Vibrator: 1 unit - **OLI (Italy)**  
Water Discharge Valve: Ø 100 Butterfly Type mm - **WAM (Italy)**  
Additive Discharge Valve: 1 Unit - 1 ½" ball valve with actuator



## Aggregate Transfer Conveyor

Belt Quality : EP 125 / 4 coats

Motor Power : 11 kW - 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

Covering over the Belt : Semi-closed with steel sheet



## Aggregate Storage Bin

Aggregate Bins Capacity&Quantity : 50 m<sup>3</sup> – 10 m<sup>3</sup> capacity each one – 5 bins (Linear)

Bunker Discharging Gate(s) : 1 Gates in each bin – Totally 5 Discharging Gates

Vibrator Brand & Capacity : 350/3 – 2 Units **WAM-OLI (Italy)**

Pneumatic Piston Brand & Capacity : DSBC 80-250 Piston 5 Units – **Festo (Germany)**

Pneumatic Valve : 5 Units – **Festo (Germany)**



With trapezoidal bending for aggregate bin covers a high strength can be reached. In SEMIX's aggregate storage hoppers, extra reinforcement steels are welded to the empty spaces in the trapezoid. Thanks to this method, aggregate storage bins can serve long years.

## Weighing Conveyor



Belt Quality : EP 125 / 4 coats

Load-cell : Capacity of 2000kg - 4 Units

Motor Power/Gearbox : 11 kW

Vibrator : 350/3 – 1 Unit - **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

# 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.

**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. 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.

**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.

**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.



## Bolted Silos 100 Tons - 2 Units

Bolted silos are preferred due to its' compactness for transportation. It can be transported with containers for avoiding freight costs. Because of its modularity, Semix is able to manufacture bolted silos in a range between 100 to 2000 tons. Semix provides a mechanical supervisor for assembling the bolted silo correctly. Semix has succeeded to install bolted silos (which's capacities of more than 500 tons) in Peru, Israel, Germany, Dubai, and United Kingdom.

## SCREW CONVEYORS

2 Units of **WAM** Screw Conveyors (Ø219 mm) will be assembled for discharging the cement.

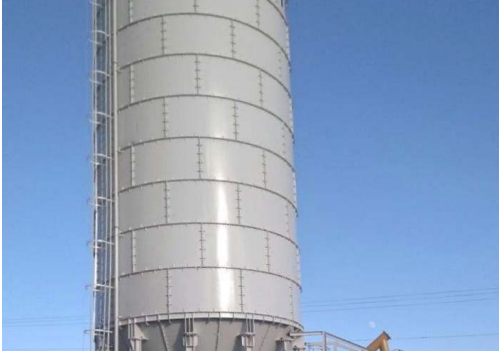
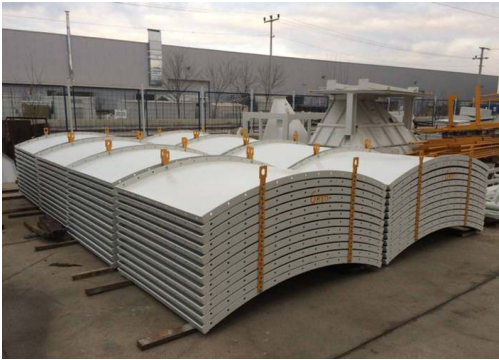


## EQUIPMENTS

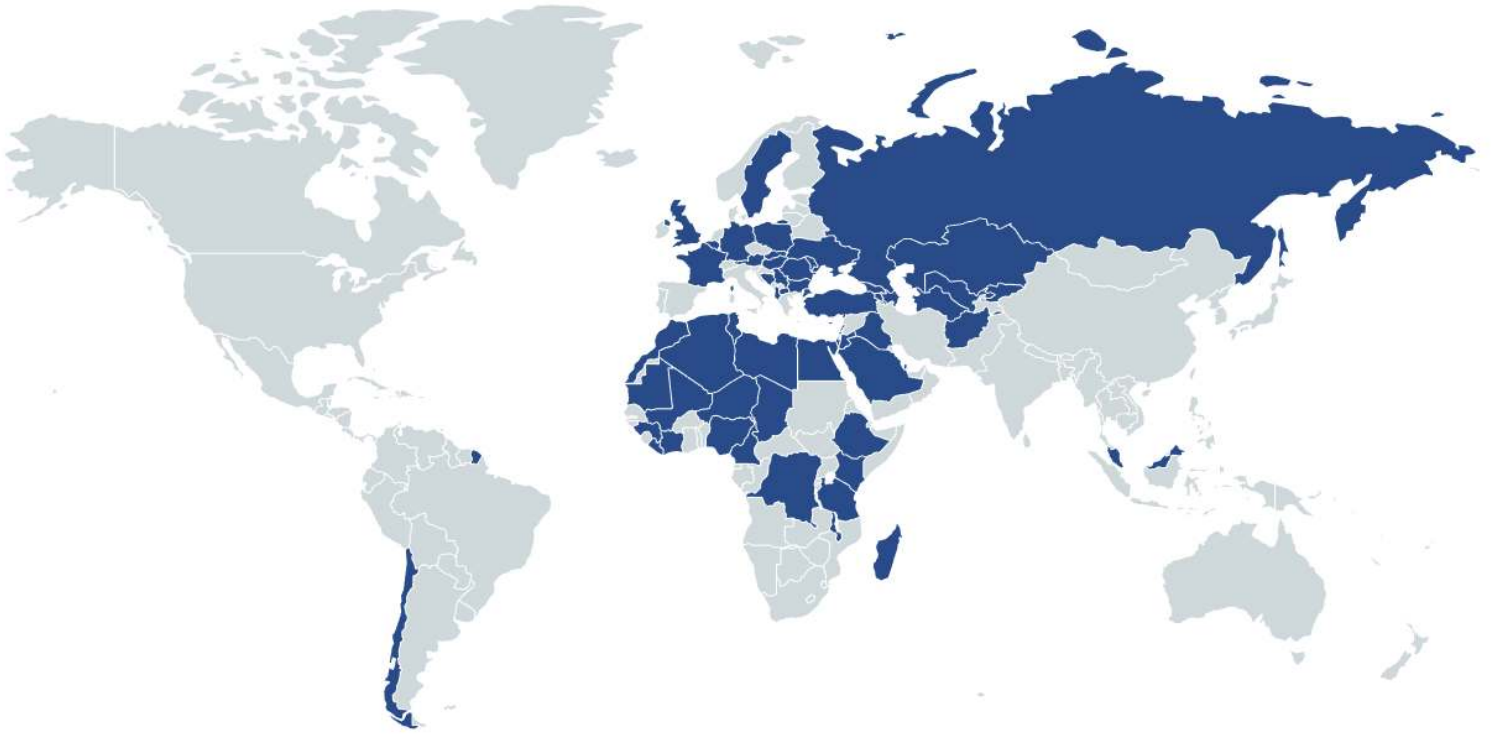
1. PRESSURE RELIEF VALVE: **WAM**
2. BUTTERFLY VALVE: **WAM**
3. PNEUMATIC ACTUATOR: **WAM**
4. MICRO SWITCH: **WAM**
5. LEVEL INDICATOR: **WAM**
6. SILO TOP FILTER: **WAM**
7. SAFETY VALVE: **WAM**
8. AIR JETS: **WAM**
9. FLAP: **WAM**



# Product Gallery



# 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**