

# SEMIX Mobile Twin Shaft Batch Mixer

## For RCC Pavements



SMX-P-2303202124-0

## PROPOSAL

### GLOBAL CONSTRUCTION SERVICES

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United States of America (the)

### Delivery

Depending on the Scope (Mixer & Silo are in the stock)

### Validity Of Offer

04-04-2023

### Terms Of Payment

%50 Advance, %50 Before Shipment



## MOBILE TWIN SHAFT BATCH MIXER SYSTEM FOR RCC

| DESCRIPTION  | AMOUNT | UNIT PRICE     | TOTAL PRICE  |
|--|--------|----------------|--------------|
| 1) MOBILE TWIN SHAFT BATCH MIXER SYSTEM FOR RCC  | 1      | \$530,000.00   | \$530,000.00 |
| 1.1) COMPACTED CONCRETE PER BATCH: 6.6 YD <sup>3</sup> (CONVENTIONAL CONCRETE, FOR RCC IT IS 4.0 YD <sup>3</sup> ) | 1      | -              | -            |
| 1.2) MAXIMUM GRAIN SIZE: 4.5 INCH  | 1      | -              | -            |
| 1.3) MIXER MOTOR POWER: 2 X 120 HP   | 1      | -              | -            |
| 1.4) MIXER BODY LINER (WEARING PLATES): NIHARD 4   | 1      | -              | -            |
| 1.5) MIXING BLADES (PALLETES): NIHARD 4  | 1      | -              | -            |
| 1.6) AUTOMATIC LUBRICATION: SKF-LINCOLN (8 POINT)  | 1      | -              | -            |
| 1.7) MIXER CONTROL BOARD: PRESENT  | 1      | -              | -            |
| 1.8) DISCHARGE MECHANISM: HYDRAULIC GATE (WITH POWER PACK UNIT)  | 1      | -              | -            |
| 1.9) HYDRAULICALLY FOLDABLE CONVEYOR BELT  | 1      | -              | -            |
| 1.10) 40 TONS HORIZONTAL CEMENT SILO   | 1      | -              | -            |
| 1.11) 12" CEMENT FEEDING AUGER   | 1      | -              | -            |
| 1.12) MOBILE AGGREGATE STORAGE BIN WITH FEEDING CONVEYOR   | 1      | -              | -            |
| 1.13) AUTOMATION SYSTEM  | 1      | -              | -            |
| 1.14) CONTROL CABINE   | 1      | -              | -            |
| 1.15) AIR COMPRESSOR & FITTINGS  | 1      | -              | -            |
| 1.16) INSTALLATION & COMMISSIONING   | 1      | -              | -            |
|  |        | Subtotal:      | \$530,000.00 |
|  |        | Total:         | \$530,000.00 |
| TRANSPORTATION   |        |                |              |
|  |        | General Total: | \$530,000.00 |





Semix is providing RCC solutions to the Dam,Bridge, Airport Contractors more than 15 years.



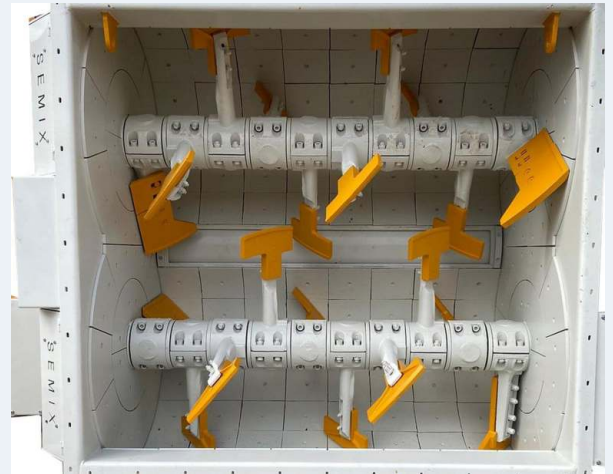


## Mobile Twin Shaft / Mixer Technical Details

Compacted Concrete Per Batch: **6.6 yd<sup>3</sup>**  
 Dry Volume: **9.7 m<sup>3</sup>**  
 Motor Power: **2 x 120 HP**  
 Maximum Grain Size : **4.5 inch**

## 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 : Ni-Hard 4 (**Chrome, Nickel special alloy cast iron**)  
 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 impaction 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 : 8 Points Automatic Lubrication System **SKF - LINCOLN (German)**

The automatic lubrication system in concrete mixers works by using a pump to send oil to the different parts of the mixer that need it. The system is designed to keep the mixer functioning smoothly, and it also helps to protect the equipment from wear and tear.



## Portability

Horizontal silos are an ideal storage solution for cement and other bulk materials. They are easily transportable and can be placed in a variety of locations. Unlike vertical silos, horizontal silos are portable and can be moved from one location to another. Horizontal silos are often used in construction sites where space is limited.



## Track Your Cement & Batch Independently !

With its weighing system, you can track the stored cement and the silo can batch the cement according to the recipe. With the simple interface, silo's loading-discharging parameters can be easily changed according to the type of material.

## Silo Equipments & Accessories

In SEMIX Horizontal Cement Silos, **WAM** products are being used in Screw Conveyors, Silo Top Filters, Air Jets, Vibrators, Pressure Sensors and Level Sensors.





## Aggregate Storage/Receiving Hopper

- Storage Capacity: 1 bin x 10 yd<sup>3</sup> = 10 yd<sup>3</sup>
- Pneumatic Pistons: **Festo (Germany)**
- Pneumatic Valves: **Festo (Germany)**
- Vibrators: 2 Vibrators located at the middle of discharging hatches with strengthened plate, **MVE 200/3 WAM-OLI (ITALY)**
- **Sheet Metal: 4 + 4 milimeters S235JR steel:**
  - Strengthened with the extra sheet weldments for back-up.
  - Trapezoidal bending process for increasing the durability

## Aggregate Feeding Conveyor

Rubber Belt Conveyor: **EP125, 4 layered**

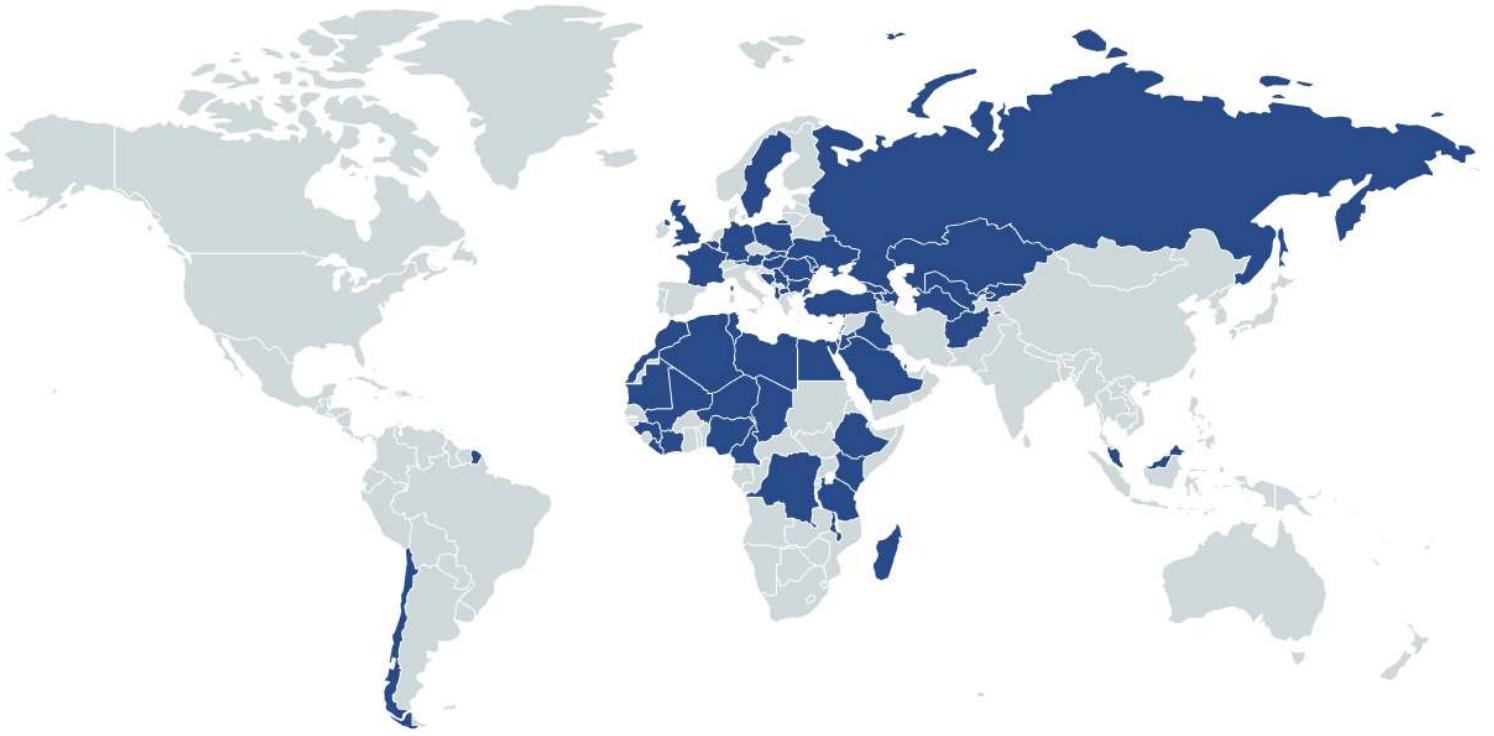
Vibrator: 1 unit, **WAM-OLI (Italy)**

Motor: Three Phase Electric Motor to Feed The Mixer with the required capacity (it can be changed according to the recipe, need a confirmation from the user)

Drive drum: Bolted shaft design for easy maintenance.



# 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**