

SEMIX CT100 (SKIP)

STATIONARY CONCRETE BATCHING PLANTS



SMX-V-2502131022-21-R3

PROPOSAL

JDCO

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KSA

Delivery

10-12 weeks

Validity Of Offer

28-02-2025

Terms Of Payment

%50 Advance, %50 Before Shipment



SEMIX CT 100 (SKIP) STATIONARY CONCRETE BATCHING PLANT

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
1) SEMIX CT 100 (SKIP) STATIONARY CONCRETE BATCHING PLANT	1	€320,000.00	€320,000.00
1.1) MIXER TOWER (HEIGHT 8 M)	1	-	-
1.2) MIXER TYPE & CAPACITY: 3000/2000 (2.0 M ³) SEMIX PLANETARY TYPE CONCRETE MIXER	1	-	-
1.3) CEMENT WEIGHING HOPPER: 1000 KG	1	-	-
1.4) WATER WEIGHING HOPPER: 600 KG	1	-	-
1.5) ADDITIVES WEIGHIN HOPPER	1	-	-
1.6) AGGREGATE BIN CAPACITY : 4 X 20 = 80 M ³	1	-	-
1.7) AGGREGATE WEIGHING SYSTEM: WEIGHING CONVEYOR BELT	1	-	-
1.8) AGGREGATE TRANSFER MECHANISM : SKIP HOIST SYSTEM	1	-	-
1.9) SOFTWARE: SEMIX (SQL BASED)	1	-	-
1.10) ELECTRICAL PANEL COMPONENTS: SCHNEIDER (INCLUDING PLC)	1	-	-
1.11) COMPRESSOR : PRESENT	1	-	-
	1	-	-

NOTE: FLY BUCKET SYSTEM IS NOT INCLUDED

Subtotal: €320,000.00

Discount: -€55,000.00

Total EXW ANKARA: €265,000.00

TRANSPORTATION

CT 100 - (EXW Ankara) €0.00

Total EXW ANKARA: €265,000.00

OPTION 1

DESCRIPTION	AMOUNT	UNIT PRICE	TOTAL PRICE
1) CEMENT SILO 120 TONS BOLTED TYPE	4	€24,000.00	€96,000.00
1.1) SILO EQUIPMENTS SET & SCREW CONVEYOR Ø273 MM	4	-	-
		Subtotal:	€96,000.00
		Total:	€96,000.00

TRANSPORTATION

Total EXW ANKARA: €96,000.00



A Semi Mobile Approach to Stationary Concrete Batching Plants

SEMIX's engineers evaluated a design that can, in effect, function as a stationary building but, at the same time, be mobile as portable concrete batching plants. CT100 Stationary Concrete Batching plant is designed for quick installation and easy transportation. It's perfect for mid-scale projects that needs efficiency. Most of the components (such as pneumatic installations, water and additive pipings, electrical wirings) are pre-assembled at SEMIX's factory. These applications help prevent wasted time on the site, which is crucial during installation.

Product Gallery





2 m³ PLANETARY TYPE MIXER

Compacted Concrete Per Batch: **2.0 m³**

Dry Volume: **3.0 m³**

Motor Power: **90 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 : In all SEMIX Concrete Mixers, Ni-Hard 4 alloys are being used in mixer blades. NiHard4 is a white cast iron product with nickel and chromium alloying, to give a hard chromium carbide in a martensitic matrix. This structure is ideal for products under conditions of high abrasiveness and high impaction conditions abrasiveness and high impaction conditions.





Cobra (Italy) Gearbox

Number of rotating stars: 2

Number of blades for each star: 3

Discharge Door : 1 Unit / **Hydraulic , 3 stage discharging**

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 : 1000 kg
 Cement Weighing Load-cells : 3 units 1000 kg
 Water Weighing Capacity :600 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 350 mm Butterfly Type - **WAM (Italy)**
Cement Hopper Vibrator : 1 unit - **OLI (Italy)**
Water Discharge Valve : Ø 250 Butterfly Type mm - **WAM (Italy)**
Additive Discharge Valve : 1 Unit - 1 ½" ball valve with actuator

Aggregate Storage Bin

Aggregate Bins Capacity&Quantity : 80 m³ – 20 m³ capacity each one – 4 bins (Linear)

Bunker Discharging Gate(s) : 2 Gates in each bin – Totally 8 Discharging Gates

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

Pneumatic Piston Brand & Capacity : DSBC 80-250 Piston 8 Units – **Festo (Germany)**

Pneumatic Valve : 8 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

Vibrator : 1 Unit - **WAM-OLI (Italy)**

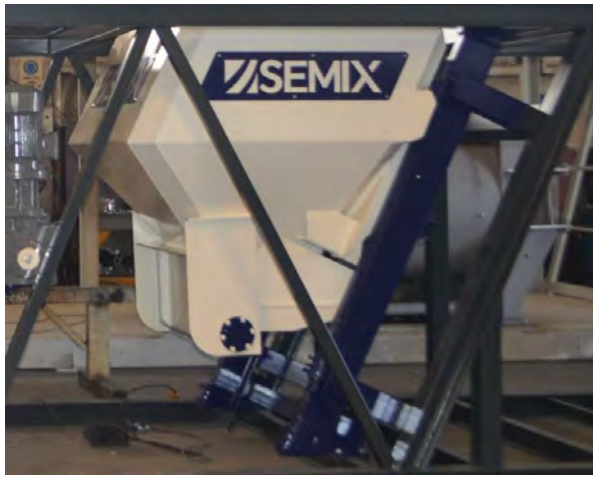
Drums : 10 mm Rubber Coated

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



Skip Hoist

Volume: 3.2 m³

Motor Power: 30 kW three phase electrical motor

Grid Blasting Before Painting



All components of the SEMIX's concrete batching plants are treated with Grit Blasting process in SEMIX's certified grit blasting facility before the painting with steel balls. This method provides high surface finish quality after the painting.

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), circuit 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.

Bolted Silos

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 welded 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.



EQUIPMENTS

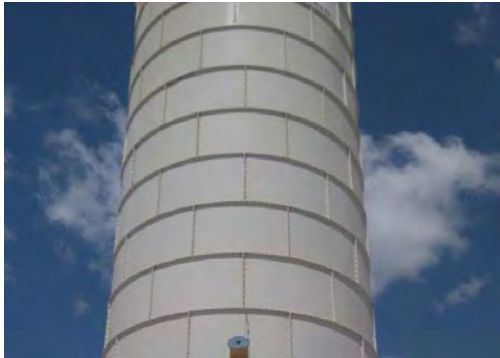
1. PRESSURE RELIEF VALVE: **WAM**
2. BUTTERFLY VALVE: **WAM**
3. PNEUMATIC ACTUATOR: **WAM**
4. MICRO SWITCH: **WAM**
5. LEVEL INDICATOR: **WAM**
6. SILO TOP FILTER: **WAM**
7. SAFETY VALVE: **WAM**
8. AIR JETS: **WAM**
9. FLAP: **WAM**

SCREW CONVEYORS

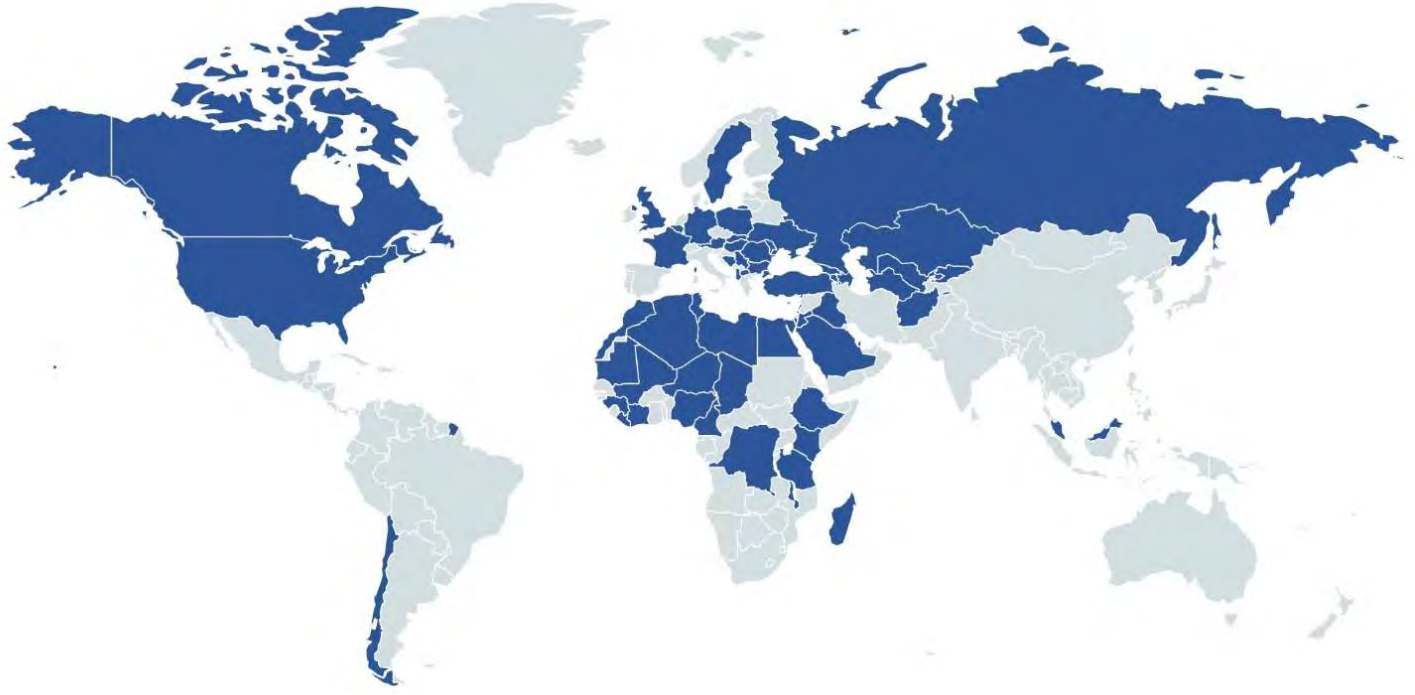
2 Units of **WAM** Screw Conveyors (Ø273 mm) will be assembled for discharging the cement.



Product Gallery



References



HEIDELBERG
CEMENT

STRABAG

LAFARGE



HYUNDAI

ASTALDI

clinotech

Limak

kalyon

CENGİZ
İNŞAAT

KOLIN

KİPAŞ HOLDİNG

ONUR
TAHHİT TAHHİMLİK İNŞAAT TİC. VE SAN. A.Ş.

DANIŞ BETON
SİVA İNŞAAT SAN. TİC. A.Ş.

AKPINAR

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