

## 7TPH Silica Sand Processing Plant

**[Inventory ID #1480765]**



### 7TPH Silica Sand Processing Plant

- Capacity: 7 Tons Per Hour
- Condition: Used Condition
- General Description: Compact Siliceous Sands Processing Plant, designed for Washing, Sorting and Recovering Sands for a Production of 7 TPH. Composed of Several Stages including Feeding Module, Washing Cylinder, Pumping Group, Screening Module, Compact Plant, Stacking Belt, Clarifier, Flocculation Equipment, Attrition Scrubber, 10,000 Liter Water Storage Tank, Electrical Cabinet and Equipment Control.
- Operation: The feed material, coming from the feed module, which is transported by the conveyor belt to the washing system - in this case a washing cylinder - and is taken by the pumping group to the hydrocyclone stages which eliminates unwanted particles, then passes to the attrition scrubber to remove the impurities adhered to the grains of the material. Subsequently, the washed product goes to several stages of hydrocyclone and finally to the screening module to reduce the humidity of the final product and thus achieve a manipulable product of the highest quality.
- Equipment List:
  - 1. Power Module:
    - a) Feed Hopper
    - b) Belt Feeder 500x3.5, 2.2kW
  - 2. Conveyor Belt:
    - a) Conveyor Belt 500x15 3kW
    - b) Conveyor Belt 500x10 2.2kW
    - c) Conveyor Belt 500x10 2.2kW
  - 3. Washing Cylinder CM 11.03:
    - a) Cuba, Sky-Type Structure, Suction Tube and Float
  - 4. Pumping Group:
    - a) Franklin Electric Pump (10,000 Liter Water Storage Tank)

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- b) Warman 3/2 Pump with CV Motor Support and Belt Protector (Washing Cylinder Hopper)
    - c) Unmarked 2/2 Pump with Motor Mount and Belt Guard (Hydro Sorter 1)
    - d) On-Site 2/2 Pump with Motor Mount and Mail Protector (Hydro Sorter 2)
    - e) Warman 3/2 Pump with CV Motor Support and Belt Protector (Hydro Classifier 3)
    - f) Emerson 3/2 Pump (Tower and Sprinklers)
    - g) Monarch 2/2 Pump (Thickening Tank)
    - h) Leroy Somer Motor
    - i) Butterfly Valve
  - 5. Screening Module:
    - a) Centrifugal Screen ZS-600
  - 6. Hydrocyclone 150mm:
    - a) Hydrocyclone PP015903 IV (EV-22)
    - b) Hydrocyclone PP015903 IV (EV-22)
    - c) Hydrocyclone PP015903 IV (Tower)
    - d) Hydrocyclone PP015903 IV (Attrition Scrubber)
  - 7. Vibrating Drainers:
    - a) EV-22 Vibrating Drainer
    - b) EV-23 Vibrating Drainer
  - 8. Clarifying Tank T-03:
    - a) T-03 EAR Thickening Tank
    - b) SOM Reducer
    - c) Leroy Somer Motor
    - d) Blade Valve
    - e) Butterfly Valve
    - f) PAR Limiter
    - g) Visualizer
    - h) Compressor
    - i) Warman Pump 1.5/1 7.5kW (Sludge)
  - 9. Flocculation Equipment EF-250:
    - a) Dosing Pump GA 90 P6P3 with 0.12kW Motor
    - b) Electro Agitator DHR 200/300, with 0.45kW Reducer Motor
    - c) Funnel Eductor
  - 10. Attrition Scrubber
  - 11. Electrical Cabinet For Whole Plant
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- Equipment Description:
    - 1. Feed Module:
      - 1.a) Description: Feed Hopper
        - Capacity: 3m<sup>3</sup>
        - Date of Construction: 09/05

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- 1. b) Description: Belt Feeder
    - Model: AB-500mmx3.5mm
    - Date of Construction: 09/05
    - Drive: Bauer BF80-04/ D11LA4-TF - 5.5kW, 400V, 50Hz, 1420 RPM
  - 2. Conveyor Belt:
    - 2. a) Description: Conveyor Belt
      - Model: CT-500mmx15mm
      - Date of Construction: 09/05
      - Drive: Bonfiglioli Motor-Reducer, MVF 130P - 3kW, 440/760V, 60Hz, 1128 RPM
    - 2. b) Description: Conveyor Belt
      - Model: CT-500mmx10mm
      - Date of Construction: 09/05
      - Drive: Bonfiglioli Motor-Reducer, W 110 UP - 2.2kW, 260/400V, 60Hz, 1692 RPM
    - 2. c) Description: Conveyor Belt
      - Model: CT-500mmx10mm
      - Date of Construction: 09/05
      - Drive: Bonfiglioli Motor-Reducer, W 110 UP - 2.2kW, 260/400V, 60Hz, 1692 RPM
  - 3. Washing Cylinder:
    - 3. a) Description: Cylinder Washer
      - Model: Cm-11.03 C/RG
      - Date of Construction: 09/05
      - 1.16m x 3.0m Long Ferrule with Interchangeable Natural Rubber Inner Lining
      - Trommel Exterior with 4 Metal Sieves = 2.36mm
      - Trommel Interior Perforated Sheet = 20mm
      - Feed Hopper of Rubberized Sheet Steel with Feed Water Connection and Opening for Feed Belt Width of 500mm
  - 4. Pumping Group:
    - 4. a) Description: Franklin Electric Pump
      - Model: 75DB3-7
      - Date of Construction: -
      - Position: 10,000 Liter Water Storage Tank
      - Equipped with: Marathon Electric Motor
    - 4. b) Description: Square Pumping Group
      - Model: GBC-11/50.7
      - Date of Construction: 09/05
      - Position: Washing Cylinder Hopper
      - Equipped With:
        - Tank Sky Type Structure, Suction Tube, Deflector and Float
        - Butterfly Valve DN-65 (2.5"), 316 Stainless Steel Disc,

## EPDM Seat Iron Body

### ◦ Leroy Somer Motor

- 4. c) Description: D.I Aceros
  - Model: -
  - Date of construction: 2009
  - Position: Hydro Classifier 1
  - Equipped: WEG 10HP Motor
- 4. d) Description: D.I Aceros
  - Model: -
  - Date of Construction: 2009
  - Position: Hydro Classifier 2
  - Equipped: WEG 10HP Motor
- 4. e) Description: Pumping Group
  - Model: GB-11/50.7
  - Date of Construction: 09/05
  - Position: Hydro Classifier 3
  - Equipped With:
    - Tank Sky Type Structure, Suction Tube, Deflector and Float
    - Butterfly valve DN-65 (2.5"), 316 Stainless Steel Disc, EPDM Seat Iron Body
    - Leroy Somer Motor
- 4. f) Description: Franklin Electric
  - Model: -
  - Date of Construction: -
  - Position: Tower and Sprinklers
  - Equipped With: Emerson Electric Motor
- 4. g) Description: Monarch Pumps
  - Model: -
  - Date of Construction: -
  - Position: Feeding Thickener Tank
  - Equipped With: Baldor Electric Motor
- 5. Screening Module:
  - 5. a) Description: Centrifugal Screen
    - Model: ZS-600
    - Date of Construction: 09/05
- 6. Hydrocyclone Equipment:
  - 6. a) Description: Hydrocyclone
    - Model: PP015903 IV
    - Date of Construction: 09/05
    - Position: EV-22
  - 6. b) Description: Hydrocyclone
    - Model: PP015903IV
    - Date of Construction: 09/05
    - Position: EV-22

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- 6. c) Description: Hydrocyclone
    - Model: PP015903 IV
    - Date of Construction: 09/05
    - Position: Tower
  - 6. d) Description: Hydrocyclone
    - Model: PP015903 IV
    - Date of Construction: 09/05
    - Position: Attrition Scrubber
  - 7. Vibrating Drainer Module:
    - 7. a) Description: Vibrating Drainer
      - Model: EV-22
      - Date of Construction: 09/05
      - Equipped With:
        - Draining Trough
        - Feed Drawer
        - Discharge Channel
        - Bottom Filter Hopper
        - Rear Filter Hopper
        - Discharge Skirt (Natural Rubber)
        - (2) Vibrators Motors MVSI-15/1410 S-90 – 1.05kW/ud., 460V, 60Hz, 1800 RPM
    - 7. b) Description: Vibrating Drainer
      - Model: EV-23
      - Date of Construction: 09/05
      - Equipped With:
        - Draining Trough
        - Feed Drawer
        - Discharge Channel
        - Bottom Filter Hopper
        - Rear Filter Hopper
        - Discharge Skirt (Natural Rubber)
        - (2) Vibrators Motors MVSI-15/2410 S-90 – 1.7kw/Ud., 460V, 60Hz, 1800 RPM
  - 8. Clarifying Tank:
    - 8. a) Description: Thickening Tank
      - Model: T-03 EAR
      - Date of Construction: 09/05
      - Equipped With:
        - Gearmotor Unit 0.66kW
        - Butterfly Valve DN-50 with Automatic Actuation
        - Knife Valve SLN-11 DN-65, Pneumatic Drive, Double Effect, Solenoid Valve (60Hz)
        - Ball Valves
        - EL-FI M-20 Torque Limiter (included in Cabinet)
        - UDM40LSEXXR2XX Display (included in Cabinet)

- Air Compressor, 1.5kW, 100Lt.
- Warman Pump
- Leroy Somer Electric Motor
- 9. Flocculation Equipment:
  - 9. a) Description: Flocculation Equipment
    - Model: EF-250
    - Date of Construction: 09/05
    - Equipped With:
      - Dosing Pump GA 90P6P3 with 0.12kW Motor
      - Agitator DHR 200/300, with 0.45kW Geared Motor
      - Funnel Educator
- 10. Attrition Scrubber:
  - 10. a) Description: Rimuca
    - Model: -
    - Date of Construction: 04/2010
    - Equipped With:
      - Constructed of 1/4" Black Iron Sheets
      - Polyurethane-Coated Blades
      - 25HP, 880 RPM Motors
      - Axis
      - Upwards Pumping Impeller
      - Downward Pumping Impeller
      - Metal Drawer
- 11. Electrical Cabinet:
  - 11. a) Description: Electrical Cabinet
    - Model: -
    - Date of Construction: 09/05
    - Equipped With:
      - Control and Power Control Cabinet for Drive of Belt Feeder, Feeding Belt, Washing Cylinder, Drainers, Conveyor Belts, Pumping Groups, Thickening Tank, Thickening Equipment, Flocculation, Water Pump, and Compressor
      - Dimensions: 1900mm x 1000mm x 600mm
      - IP-55 protection

- Location: Central America

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