



MIXER SYSTEMS, INC.

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QUOTATION

CUSTOMER INQUIRY:

Sales Contact: David Boles
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TERMS: Delivery F.O.B. Carrier, Factory in Pewaukee, WI

Payable in U.S. Funds

25% DUE WITH ORDER

25% DUE AT APPROVAL DRAWING

45% BEFORE FINAL SHIPMENT

**5% AFTER START-UP (NOT TO EXCEED 60 DAYS
AFTER FINAL SHIPMENT)**

APPROXIMATE DELIVERY AFTER RECEIPT OF ORDER AND APPROVAL DRAWING: 10-12 Weeks

Item No.	Qty.	Description
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8 CU FT PADDLE MIXER

Model 8DD Paddle Mixer with 8 cu. ft. capacity complete with the following features:

Mixing Tank:

- Heavy-duty all welded construction with drain plug
- Crane hook lifting brackets

Water Distribution System:

- 1" NPT pipe full length of mixer with distribution holes

Paddles & Liners:

- Cast Ni-Hard paddles (550 Brinell Hardness)
- Abrasion resistant steel wall and end liners (225 Brinell Hardness)
- Bolted, replaceable components

Discharge Door:

Discharge door in rear of drum includes:

- Manual pneumatic valve with flow control valve for speed adjustment control of discharge door.
- Heavy-duty urethane seal around door
- Air line lubricator and moisture trap.

Main Shaft & Bearings:

- Bearings are self-aligning, sealed pillow blocks

Electric Motor

- 7-1/2 / 3-3/4 HP electric motor - Two speed motor
- 460 dual voltage, three-phase, 60 Hz, 1800/900 RPM, totally enclosed, fan-cooled motor for dust protection and long life.

Transmission:

- Shaft-mounted gear box
- Sealed oil bath lubrication

Drive:

- Right hand drive is standard (viewed from charge side)

Cover:

- One (1) adjustable, steel latch type cover handle per door
- Two (2) hinged solid steel covers with rubber foam gaskets for dust tight operation
- Raised and angled cover design, for ease of cleanout

Safety Electrical Interlocks:

- Motor emergency stop station and two (2) cover-down limit switch provided.
- OSHA ten-second start-up delay with audible alarm

Secondary Shaft Seals:

- Adjustable purgeable grease chamber design for maximum protection from contamination.
 - Split seal design can be replaced in minutes
- 1 - Manual Pneumatic Valve, for remote control of discharge door. Hand operated, three-position (15' hose included).

HYDRO-MIX SENSOR

- 1 Moisture control system complete with:
 - Hydro-Mix sensor (Microwave type) for mixer complete
 - Clamping ring
 - Mounting flanges
 - Hydro-Control V controller
 - Manual moisture compensation

DISCHARGE CHUTE

- 1 - Discharge pouring chute
 - Discharge chute manually pivots right and left for cleanout
 - Up-Down pneumatic movement with hand lever positioning valve

MIXER STAND WITH CLEANOUT PLATFORM

- 1 - Mixer cleanout platform is complete with handrails, toe boards, open type grating and ladder with 8' stand on three sides of mixer.

CEMENT WEIGH BATCHER

- 1 8 cu. ft. CPMB rated capacity cement weigh batcher including:
 - Made of 3/16" plate
 - Pneumatically operated butterfly cement discharge valve with single solenoid valve and limit switch.
 - Suspended above the mixer by load cells for accurate weighing of materials
 - Vibrator for complete cleanout
 - Connected to the mixer by a canvas sock

WATER METER

- 1 1" Badger water meter complete with:
 - Cast iron body
 - 1" butterfly shutoff valve with solenoid

AGGREGATE STORAGE BIN

- 1 10 ton (200 cu. ft.) capacity aggregate bin (CPMB rated at 100 lbs. per cu. ft. water level) split into two equal 5 ton (100 cu. ft.) capacity compartments:



- 10' x 10' open top charge area
- Each compartment has a pneumatically operated clamshell discharge gate complete with air cylinder, single solenoid valve and adjustable gate stop.
- Bin will have load cells for accurate decumulative weighing of materials.
- One air line filter with moisture trap and one air line regulator is provided for use with one to six bins.
- Air line lubricator

AGGREGATE BIN VIBRATOR

- 1 Aggregate bin vibrator supplied for the sand bin complete with:
 - 2" piston
 - Air hoses
 - Mounting hardware

POCKET BELT CONVEYOR

- 1 Pocket conveyor 18" wide belt complete with:
 - Additional conveyor length for hanging a bag above and dropping onto the pocket belt
 - 230/460 volt, 3 ph, 60 hz, TEFC electric motor drive assembly
 - Flat idlers
 - 4" diameter return rollers
 - Belt - Corrugated sidewalls with cleats
 - Loading skirt
 - Tail pulley
 - Head pulley
 - Channel frame
 - "A" frame supports
 - Drip trays bolted to underside of conveyor to collect material carryover
 - "Emergency stop" pull-cord switch and warning horn

BAG BREAKER WITH HOPPER

- 1 6" diameter screw conveyor up to 20' long with bag breaker hopper complete with:
 - Helicoid flighting with half pitch inlet flights, full pitch intermediate flights, and double full pitch outlet flights
 - Gear reducer
 - Mounting flanges
 - Adjustable support to cement weigh batcher
 - Canvas connection to cement weigh batcher
 - 230/460 V, 3 PH, 60 Hz, TEFC electric motor and gear reducer drive case
 - Drive is mounted on the inlet end of the screw conveyor
 - Closed hopper with 24" diameter inlet
 - #2 hard facing on leading edge of flighting with heavy duty housing
 - Hopper to hold 3000 pounds of material (100# cu. ft.)
 - Bag breaker hopper/screw conveyor supports by M.S.I. (this will support customer bagging hopper)
 - Bags will be lifted by customer
 - Supersack charging support members will be provided by customer

MULTI MOTOR STARTER PANEL

- 1 480 volt multi motor starter panel to include the following:
 - Mixer motor starter(s)
 - Pocket belt motor starter(s)
 - Screw conveyor motor starter(s)

Motor starters include the following:

- One (1) control transformer
- One (1) fusible disconnect switch
- One (1) NEMA 4 control box with back panel
- Power distribution blocks
- Includes all control wiring run to marked terminal strip
- All parts and labor included for assembling starter panel
- Only includes M.S.I. supplied motors



MODEL E-100D BATCH CONTROL

- 1 Fully automatic sequential batching of materials. Control utilizes micro computer; one (1) scale for cement/water. Up to six (6) scales for up to 6 aggregates maximum, seven (7) scales maximum. Note: Control has the capability of only one (1) cement /water scale.

STANDARD FEATURES:**General:**

- One start button to begin automatic sequence
- One recycle switch for pre-weighing cements and water (sequentially by net weight)
- 25 Mix designs

Materials:

- 2 of 2 Aggregates, batched decumulative, by net weight
- 1 of 1 Cement (or fly ash) batched by screw or gravity, by net weight
- 1 Weighed water, by net weight
- Pre-batching of cements and water

Controls

- Control is powered by 110 volt AC, 60 hertz, single phase electric power (dedicated power is recommended)
- NEMA 4 control enclosure, 30" x 24" x 8"
- All switchgear is rated NEMA 4x
- Key locked power on-off selector switch
- Manual-auto selector switch
- Manual controls for batching and discharge of all materials
- LCD (backlit) menu driven display readout with 4 lines of 20 characters per line.
- Emergency stop switch located on control panel
- Start-stop switch for incline conveyor
- 10 Second warning alarm for start up of one incline conveyor
- Start-stop switch for mixer
- Aggregate gate jog control
- Automatic gate chatter if no flow is detected through batch gate
- Automatic material free fall correction
- Refill mode for suspending batching while refilling aggregate bins in automatic
- One cement silo low level indicator light
- Material inventories of cement, water and aggregates batched in automatic
- Over/under weight checks
- Tolerance band for each material weighed
- Load size selection anywhere from 25%-100% of the selected mix
- Manual moisture compensation for all 6 materials (aggregates) from 0%-25% moisture
- Yield compensation of the various materials will also be compensated
- Plus/minus water adjustment in pounds for all mix designs (slump)
- One time total water deduct in pounds
- Full digital calibration of scales
- Shielded signal cable (summing junction box to control)
- Service technician for three day start up (SEE DOMESTIC START-UP)
- 1 - Mix timer (timer relay) and remote bell 1 to 10 minutes

4 OF 4 ADMIXTURES

- 1 4 of 4 Admix

- Provides an interface with an admix tube system (supplied by others) to automatically control when and how much admixture is added to a batch
 - Requires 110 volt signal coming in
 - Is part of the mix design (not just a start pulse)
 - Uses counts that are calibrated to a certain amount of admix, e.g.: three ounces = 1 count
 - Will count only the number of pulses received from the admix meter attached to the tube.
- The control will recognize whatever unit of measure the meter has been calibrated for (Quarts,

