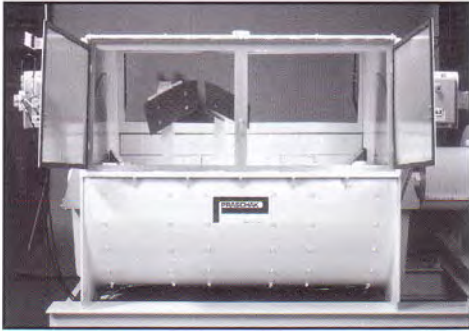
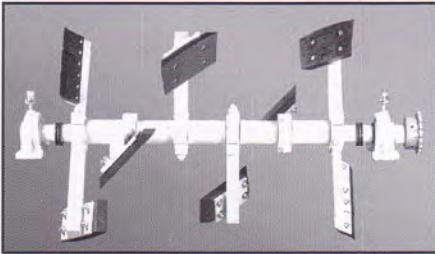


HORIZONTAL SHAFT MIXERS

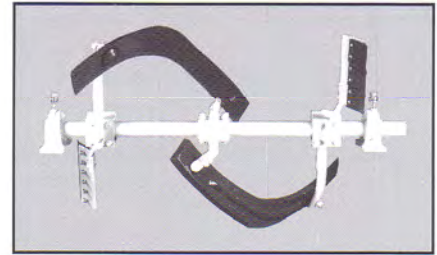


ACCESS DOORS – Two large doors on the front of the mixer provide easy access for inspection and cleaning of the mixing chamber and or removing and replacing liners, paddles or blades. For added convenience, access doors on the rear of the mixer are available as an option.

PADDLE MIXER – NI-HARD Mixing Paddles are abrasion-resistant for long life. This unique Paddle configuration is easier to install, remove and adjust, with no additional cost.

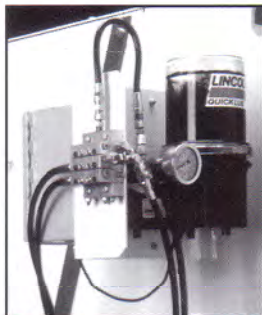
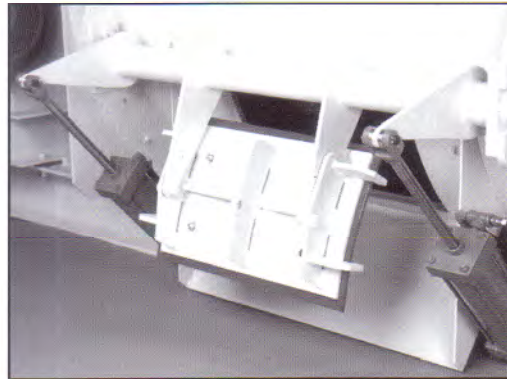


OPTIONAL SPIRAL BLADE MIXER – NI-HARD Mixing Blades are abrasion – resistant for long life. This familiar, time-tested arrangement produces a thorough homogeneous mix batch after batch.



LARGE DISCHARGE DOOR -

Oversize discharge door assures fast, clean discharge. Simple linkage and heavy-duty rubber seal provide positive closing, regardless of the mix. Larger models – 54 and up – feature twin cylinders. The door is air operated with one control lever and flow control valve for full open/close. Partial discharge operation is available as an option

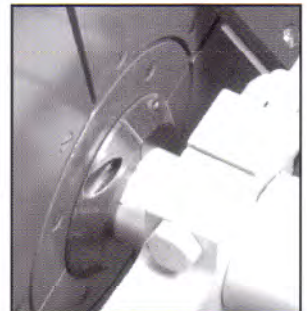


LUBE SYSTEM -

Electrically operated Automatic Lubrication System (optional) makes sure that the seals remain lubricated at all times for maximum performance.

SURESEAL SHAFT SEAL -

Makes sure that no water or grout get through to damage the bearing. Our new Shaft Seal has corrected a major problem for many horizontal shaft mixers, especially with high-slump mixes.



SPECIFICATIONS: HORIZONTAL SHAFT MIXERS

STANDARD EQUIPMENT INCLUDES:

MIXING TANK: 1/4" drum wall on Models 21XL and 30XL
 5/16" drum wall on Models 54XL and 81XL
 1/2" end wall on Models 21XL, 30XL & 54XL
 3/4" end wall on Model 81XL
 3" bottom drain in center

LINERS: All liners are replaceable, rectangular segments held in place with four (4) bolts and four (4) nuts with the bolt head countersunk down into the steel liner. End wall liner is 3/8" thick, AR 225 brinell steel on all models; Drum liners are cast ni-hard, 500 brinell hardness and 1/2" thick on models 16/21; 5/8" thick on models 23/30 and 41/54; and 3/4" thick on models 61/81.

SHAFT ASSEMBLY: Ni-hard mixing blades or paddles. (Models 21XL & 30XL have 4 paddles, Model 54XL has 6 paddles) Ni-hard end wipers for mixer side walls. Replaceable wear guards for shaft. Sealed, self-aligning pillow block bearings. Lubrication cup with visual level indicator and spring-operated feeder for proper lubrication. Models 21, 30, and 54 can have either paddles or spiral blades; Model 81 has spiral blades only.

SHAFT SEALS: Primary double-labyrinth seal and secondary "cat" seal. Split construction for field replacement. Both seals are purged with "Vellox 3" grease. 4-point remote lubrication panel included.

DRIVE TRAIN: Shaft-mounted reducers on Models 21XL and 30XL. Planetary transmissions on Models 54XL and 81XL. Belt-driven input. Output shaft coupled directly to mixer shaft. Motor is totally-enclosed fan-cooled. Dual voltage (230/460), 3 phase, 60 hertz.

DISCHARGE DOOR: Located in rear of drum with rubber seal. Cylinder-operated linkage with hand lever valve. Includes flow control valve for speed adjustment and air line lubricator and moisture trap.

COVER: Sheet steel lid 3/16" thick and dual hinged access doors. Doors and top are gasketed for dust containment. Hinged doors include "cover down" switch for interlock with motor control circuit.

PAINT: One color, yellow, high-grade machinery enamel. Consult factory for special types, colors and procedures.

DIMENSIONS

| DIM | DESCRIPTION | 21XL | 30XL | 54XL | 81XL |
|-----|---------------------|----------|----------|----------|--------|
| A | SHIPPING L | 90 1/2 | 102 1/4 | 130 1/16 | 152 |
| B | SHIPPING W | 57 1/8 | 66 11/16 | 72 1/8 | 73 |
| C | SHIPPING H | 52 9/16 | 59 3/16 | 72 13/16 | 76 |
| DIA | DRUM INSIDE DIA. | 39 | 47 | 56 | 64 |
| D | HOLE SIZE | 1 1/16 | 1 1/16 | 1 1/2 | 1 1/2 |
| E | FRT MTG BOLTS WIDTH | 19 1/2 | 20 1/8 | 26 1/2 | 26 |
| F | RR MTG BOLTS WIDTH | 15 1/2 | 18 1/4 | 17 1/2 | 26 |
| G | MTG BOLTS WIDTH | 35 | 38 3/8 | 44 | 52 |
| H | BEAM LENGTH | 81 | 102 1/4 | 128 | 152 |
| J | RIGHT MTG BOLTS | 30 3/4 | 35 7/8 | 53 | 64 5/8 |
| K | MTG BOLTS LENGTH | 61 1/2 | 71 3/4 | 93 | 111 |
| L | MTG BOLTS-TO-END | 2 1/4 | 2 1/2 | 4 1/2 | 4 |
| M | CHARGING WIDTH | 32 | 32 | 46 1/4 | 34 3/8 |
| N | CHARGING LENGTH | 55 | 59 3/4 | 72 | 81 |
| P | DISCHARGE LENGTH | 18 11/16 | 21 5/8 | 26 9/16 | |
| Q | DISCHARGE HEIGHT | 2 | 1/2 | 5/16 | 3 1/2 |
| R | DISCHARGE WIDTH | 24 3/4 | 31 1/2 | 23 5/8 | 46 1/2 |
| S | CTR TO FRONT I-BEAM | 20 3/8 | 21 | 28 9/16 | 28 |
| T | CTR TO REAR I-BEAM | 16 3/8 | 19 1/8 | 19 9/16 | 28 |
| U | FRT I-BEAM WIDTH | 18 3/8 | 19 | 24 9/16 | 24 |
| V | RR I-BEAM WIDTH | 14 3/8 | 17 1/8 | 15 9/16 | 24 |
| W | I-BEAM WIDTH | 4 1/16 | 4 | 8 | 8 |
| X | CHARGE SHELF WIDTH | 24 3/16 | 28 1/8 | 32 7/8 | 36 |
| Y | CHARGE SHELF HEIGHT | 30 1/4 | 32 5/8 | 40 1/4 | 54 1/4 |
| Z | SHAFT CL | 24 1/2 | 28 1/8 | 34 1/2 | 41 3/4 |

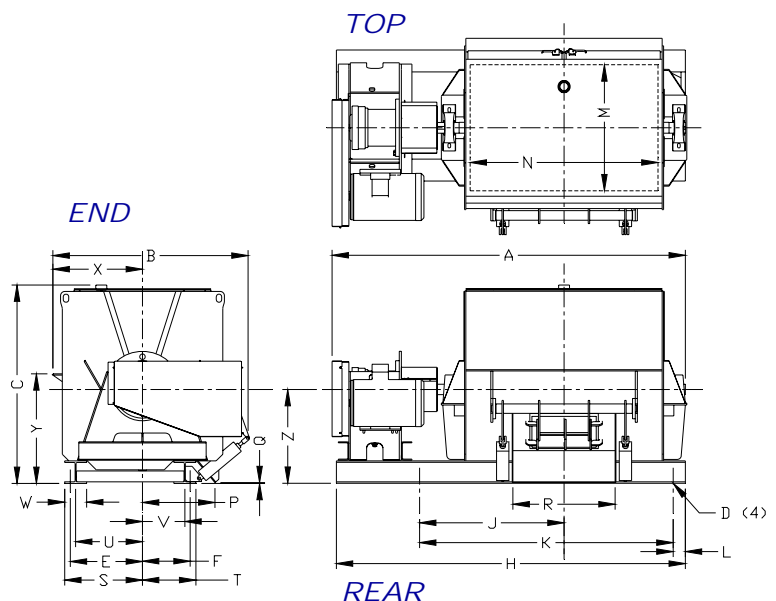
OPTIONAL EQUIPMENT INCLUDES:

- Automatic lubrication for shaft seals
- Shaft and arm cleaning rings.
- Rear access doors to facilitate cleaning.
- Deluxe access doors with heavy-duty gaskets.
- Extra-large cylinder-operated bottom clean-out.
- Water meter system (installed).
- Moisture probe (installed).
- Additional hand lever valve for discharge door.
- Single or double solenoid valve in lieu of hand lever valve for remote control of discharge door.
- Discharge door limit switches (one or two).
- Air pressure regulator.
- Remote stop/start push button station
- Motor starter (installed).
- Mixer stand
- Left-hand drive in lieu of standard right-hand drive.

CAPACITIES

| MODEL | HP | MAX. RECOMMENDED VOLUME | MIXER WT |
|-------|----|-------------------------|----------|
| 16 | 10 | 21 CU. FT. | 3300 |
| 21 | 15 | 21 CU. FT. | 3375 |
| 23 | 20 | 30 CU. FT. | 4835 |
| 30 | 30 | 30 CU. FT. | 5400 |
| 41 | 40 | 54 CU. FT. | 10000 |
| 54 | 50 | 54 CU. FT. | 11000 |
| 61 | 60 | 81 CU. FT. | 15000 |
| 81 | 75 | 81 CU. FT. | 16000 |

Yield will vary with shrinkage, material weight and other mix design variables. Consult factory for estimated yield. Volumes are calculated to the top of the mixer shaft.



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