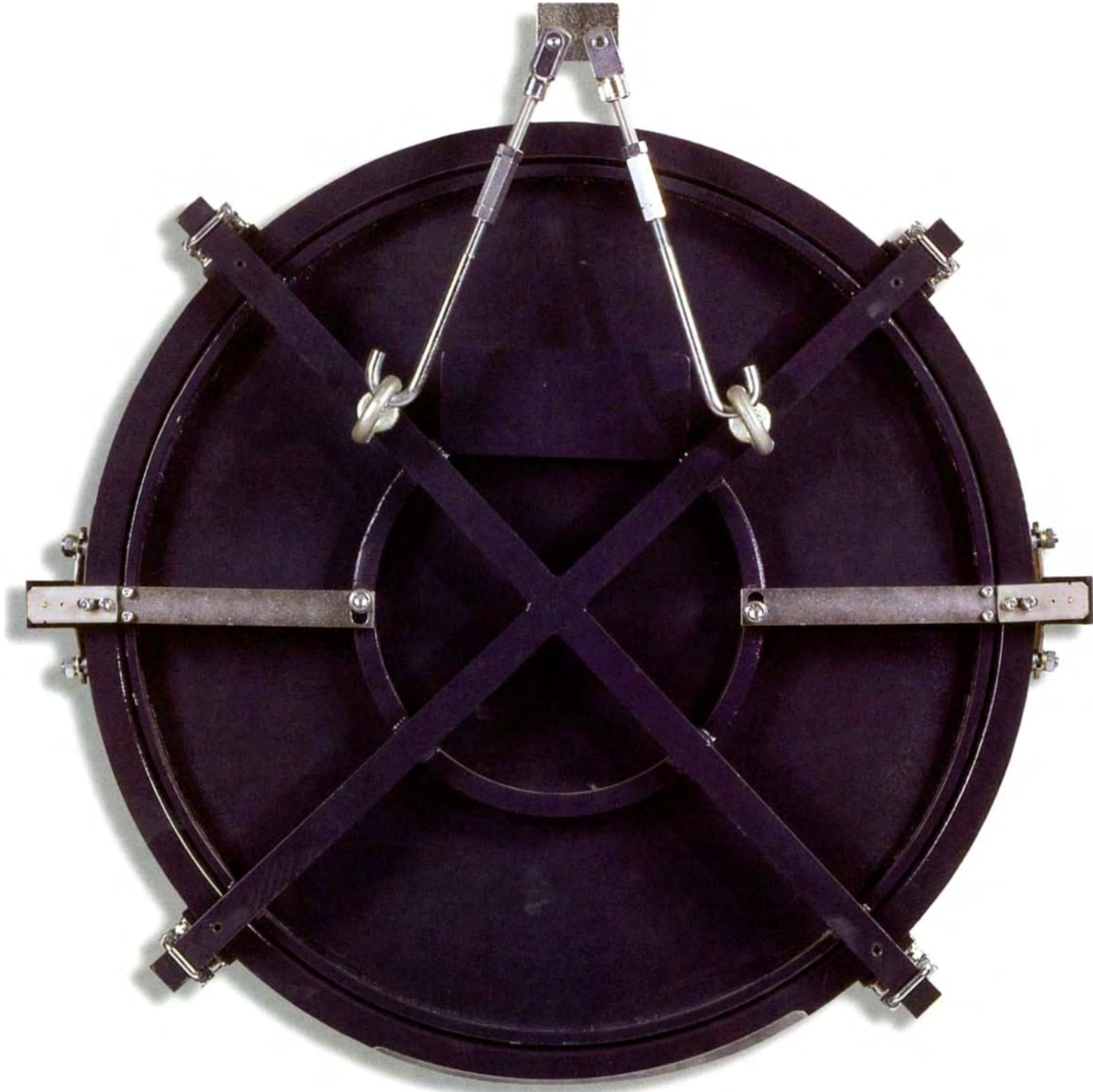


Klein STATORMIX[®] Core Sand Mixing System

Batch mixing for those who want consistent and reliable results



Klein Technology Group

Here is what makes the STATORMIX[®] stand out:



The STATORMIX

- Better efficiency
- Reduced binder consumption
- High core strength
- Maintenance friendly
- No loss of solvents
- Lowest wear
- Process partial batches without quality loss
- Negligible sand residue remains after discharge

STATORMIX Facts

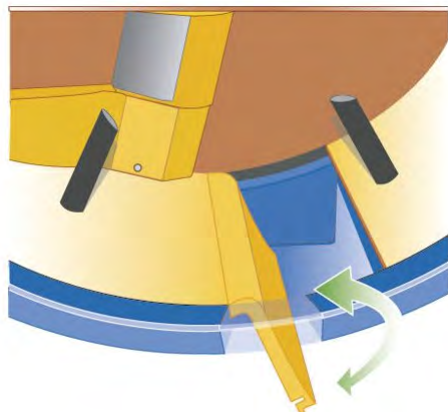
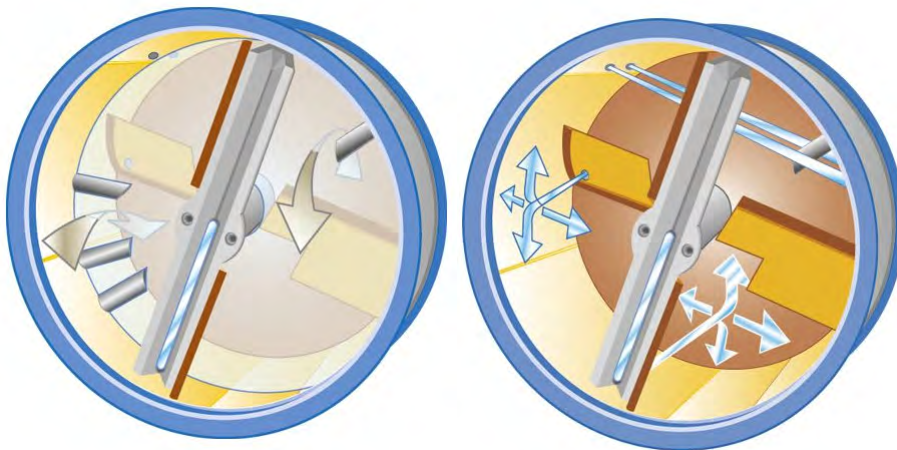
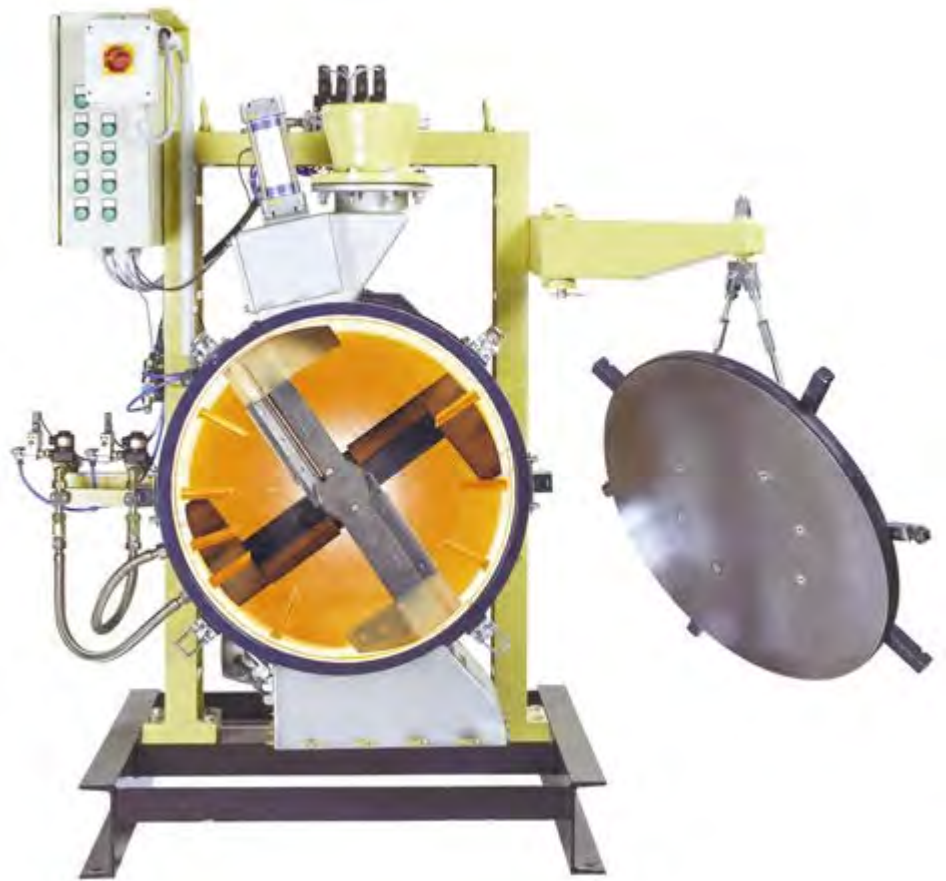
The STATORMIX core sand mixer has two mixing chambers, which are separated by a row of stator bars. Each mixing chamber is equipped with a specially shaped rotor blade mounted on, and driven by, a common shaft.

As the rotating blades force the sand back and fourth from one mixing chamber, across the stators, into the other mixing chamber, the sand is slowed down every time it passes the stators and then speeds up again, causing division of flow and remixing several times per second. This controlled, forceful movement of the sand across the stators causes the highly efficient and intense mixing of the injected binder with the sand.

The hinged mixer front cover can be opened and moved to the side making the complete mixing drum freely accessible.

The mixing tools can be removed after releasing a bolt. Once removed, they can be easily cleaned outside of the mixer such as in a blasting chamber.

After the mixing cycle is finished, the sand is completely discharged from the mixer. Almost no sand remains in the mixing drum. Different batches of sand can thus be treated in sequence without cross contamination.



The mixer is equipped with an integral self cleaning mechanism:

- Thanks to the shape of the mixing tool each spot in the mixing drum is reached and thus kept clean.
- Two integral air nozzle systems remove sand residues from the interior surfaces of the mixing drum and the rotating mixing tools.
- After each mixing, cycle eventual adherences can be removed from the mixing drum and the mixing tools by cycling dry sand.

STATORMIX Series Mixer Sizes:

STATORMIX Series	22	53	123
Batch Size	15 L (0.53 ft ³)	34 L (1.2 ft ³)	80 L (2.8 ft ³)
Batch Weight (approx.)	ca. 22 kg (48 lbs)	ca. 50 kg (110 lbs)	ca. 120 kg (265 lbs)
Mixing Rate Max* (approx.)	ca. 2.2 t/h (4,800 lbs/hr)	ca. 5 t/h (1,100 lbs/hr)	ca. 9 t/h (19,800 lbs/hr)
Drive	4 kW (5 HP)	5.5 kW (7.5 HP)	5/10 kW (7.5-15 HP)

* Related to silica sand F32 cold box binder

Cold Box Bending Strength vs. Capacity

