



**LAHTI  
PRECISION**

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# Lahti Mixer

## Vertical Batch Mixer for Glass Industry

- Vertical shaft batch mixer dedicated for glass industry
- Completes dosingweighing- mixing – process
- Homogenous mixture
- Operates as a check scale
- Reliable and robust structure
- Dustproof and leakage proof structure
- Energy efficient solutions
- Low maintenance costs
- Long life cycle

### A NEW BATCH MIXER FOR GLASS INDUSTRY FROM LAHTI PRECISION

Lahti Precision has long experience of batch mixing. The company is one of the world's leading suppliers of glass batch plants and mortar plants providing a complete package for the business - a package with unique technical advantages. Lahti Precision has launched a new vertical shaft batch mixer for high quality glass production.

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### OPTIMAL MIXING TECHNOLOGY

The Lahti mixer is a robust and wear resistant solution for large capacity batch production. It provides high reliability and low maintenance costs.

Effectiveness of the Lahti mixer mixing technology is proven in glass mixing application thus not requiring any extras. All material contacting parts are nickel free.

## MIXING METHOD

Excellent mixing result can be achieved when all components are circularly mixed and revolved with mixing paddles and arms, absorbing the shocks in different directions through springs that adapt its position and mixing angle to obtain the best working way with the minimum power.



The Lahti mixer is supplied with planetary gearbox to achieve minimal losses of power and larger Lahti mixers are supplied with turbo coupling for smooth starting.

Lahti mixer is equipped hydraulically operated discharge gate with manual opening system for emergency situations. Short discharge time and efficient discharging can be achieved due to the large opening. Discharge gate has dustproof protection cover.

## DESCRIPTION OF THE MIXER

Lahti mixers basis is a robust mixing drum with easy accessible and replaceable wear plates in the bottom and in the lateral walls. PVC-sub lining below wear plates guarantee straightness of the mixer bottom. Due to this mixing paddles can be adjusted optimally to get minimum gap between wear plates and paddles. This keeps mixing drum clean and prevents material to agglomerate.

Dustproof covers for inspection and maintenance are included. The mixer is service friendly and easy to clean through the large segment door.

Spring loaded mixing arms are installed to the rotor. Rotor is directly connected to the gearbox central shaft and dustproof covered. Every arm can be regulated. Depending on the application basic iron cast paddles and hard metal scraping paddles can be replace with abrasionresistant materials.

The Lahti mixer is supplied with emergency controllers to achieve high safety matters according to EU norm.

The motor is supported laterally with hydraulic coupling and cardan shaft on larger Lahti mixer models

Water injection nozzles are installed to the cover for batch wetting.



## LOW ENERGY CONSUMPTION

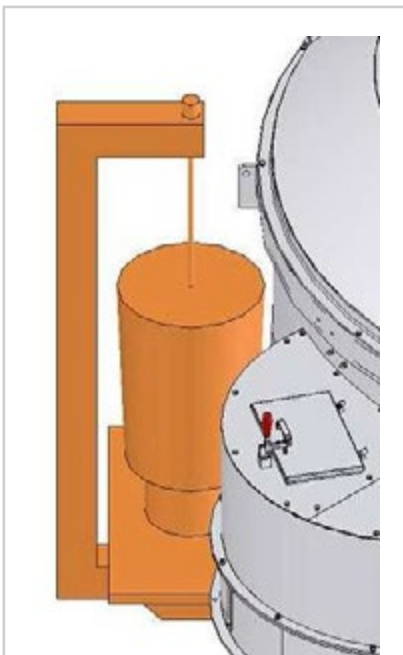
Special attention has been put on energy saving since mixer is typically the biggest consumer of electric power in a batch plant. Lahti mixer is powered by a high efficiency rated motor (up to IE3) and can be driven by an inverter for saving energy and for lowering rated current. Together with the integrated control system a remarkable saving can be achieved by running the mixer correct speed and torque at all times.

## OPTIONS

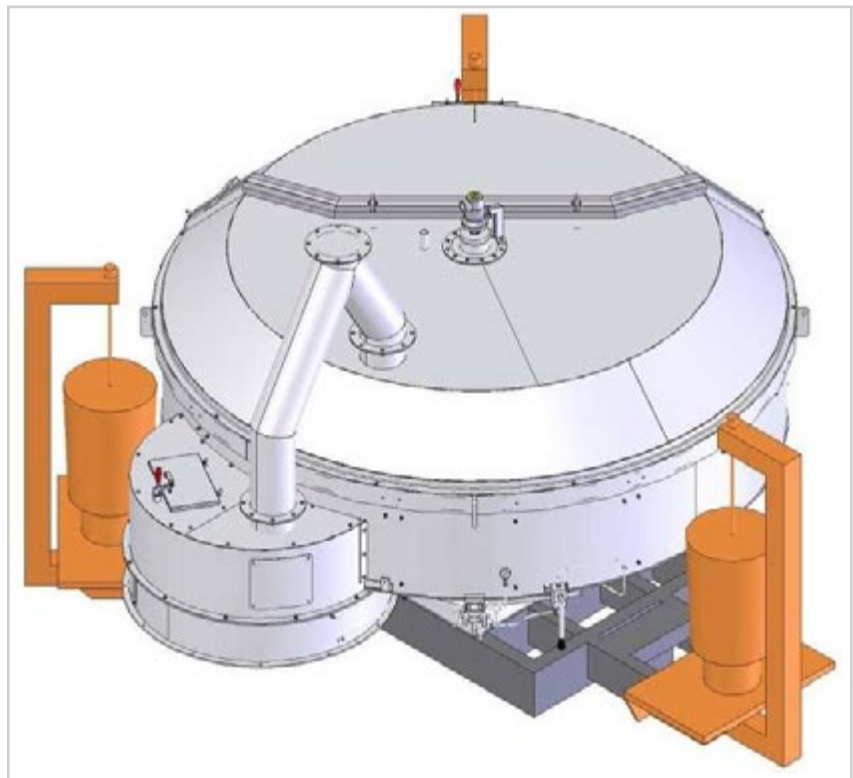
Lahti mixers are available for low iron/extra clear class and other special glass production taken into account necessary protection and wear material selection to avoid contamination.

Lahti mixers can be supplied with steam injection through rotating lances.

Lahti Precision is well known of its precise dosing and weighing application for glass batching plants. Lahti mixer is designed to operate as a check scale with weighing frame or a real container scale when required.

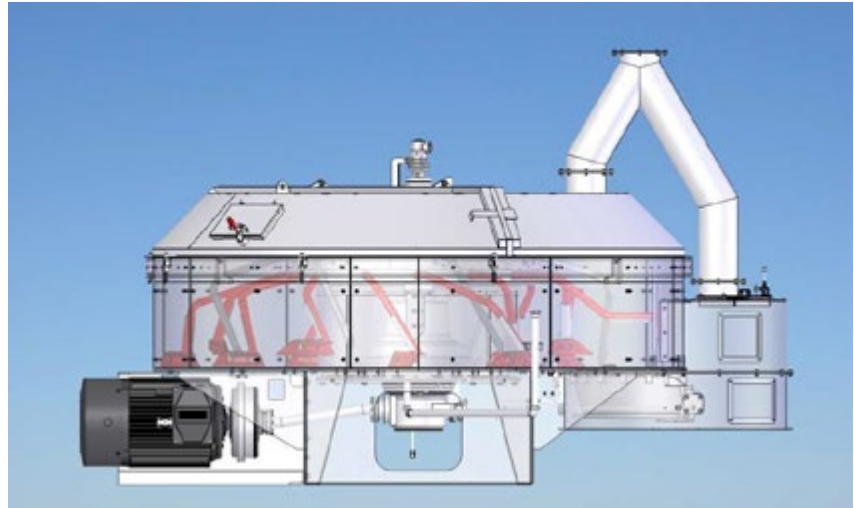


Automatic test weights are available when required



## THE LAHTI MIXER WITH LONG LIFE CYCLE

Lahti vertical shaft batch mixer is designed for long life cycles. All chosen components are of the highest quality, which ensures low maintenance costs. Lahti vertical batch mixer gives more value to the customers. This reliable batch mixer is designed for high production efficiency and sustainability.



Lahti mixers are available from 250 litres to 5250 litres in volume, covering commonly used sizes in the glass industry:

| Mixer type | Capacity (litres) | Power (kW) |
|------------|-------------------|------------|
| MBV-250    | 250               | 11         |
| MBV-750    | 750               | 22         |
| MBV-1125   | 1125              | 30         |
| MBV-1500   | 1500              | 37         |
| MBV-2250   | 2250              | 55         |
| MBV-3000   | 3000              | 75         |
| MBV-4500   | 4500              | 110        |
| MBV-5250   | 5250              | 132        |