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PRODUCTS OR MACHINERY

TEKA TURBINE PAN-TYPE MIXERS Glass Batch Preparation

TEKA turbine pan-type mixers THZ are pan mixers for batching operations, and are available in sizes from 250 to 6000 liter filling capacities.

The mixing pan floor and the outer walls are protected by exchangeable wear liners made of A.R. steel plate.

The spring-loaded mixing arms are mounted in the rotor head, and are adjustable to compensate for wear. This, plus their various angles-of-attack enhance the mix-effect, reduce wear, and protect the drive from shock.

Depending on the application, mixing paddles, wall scrapers, and mixing arm wear guards made of various abrasion-resistant materials are available.

The turbine pan-type mixers THZ 250 employs permanently lubricated, flanged gear motors for drive and discharge functions.

The centrally located planetary gearbox is driven by a 3-phase TEFC motor, which is flange-mounted directly to the gearbox, in the case of turbine pan-type mixers THZ 375 to THZ 1125 mixers, and connected by a double universal-joint driveshaft on turbine pan-type mixers THZ 1500 to THZ 6000 models.

A hydraulic turbo-coupling for soft starts under load is available also.

Flanged to the gearbox, and driven by it, is a hydraulic gear pump which constantly cycles the oil, and supplies the pressure to operate the discharge gate(s).

The discharge gate assembly, used to remove the batch from the mixer, is a complete component bolted to the mixer pan floor. The semi-circular gate is hydraulically operated by means of a rotating piston cylinder. It is electrically controlled, and can be opened to any degree desired.

Locating the pivot-point of the gate slightly inside the pan circumference allows for a large opening and, thereby, a fast discharge.

As an option, the discharge gate can be opened, independent of the mixer main drive, via a separate hydraulic aggregate.

Mixers THZ 375 to THZ 1125 may be equipped with up to 4 gates, whereas 3 gates is the maximum for THZ 1125 G to THZ 6000.

Sampling gates are available.

A protective cover encloses the mixer on top. A built-in seal makes it near-dustproof.

Large, hinged segments with variable positioning are possible, raised and lowered by a manual- or motorized cable winch.

On request we can supply steam injection through rotating lances.

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