

CENTRAL MIXER Z-MIX



An optimised design is crucial for the effectiveness and efficiency of the agitator technology. Based on tank geometry, substrate properties and many other factors, our engineers use software-supported flow simulations and load capacity calculations to determine a central agitator that is perfectly tailored to your needs.

Application

Tank volumes up to 10,000 m³
Efficient use in elevated tanks
Customised design and production depending on tank geometry, substrate properties, etc.

Drive unit

Gear motor 3.0 - 45.0 kW, IE3 or higher
400V 50Hz, special voltages on request
Flat gearbox, low-noise, low-maintenance
Rotational speed 10 - 60 rpm

Tank interface

Levelling flange to compensate for tank unevenness
Customised interface adaptation

Sealing

Labyrinth seal for gas-tight application
Safety device for monitoring the fill level of the labyrinth seal (50 mbar)

Bearing

Optimal absorption of radial/axial forces thanks to spherical roller bearings
Easy access to grease lubrication via service opening



Agitating device

Flow-optimised paddles for axial agitating effects
1-4 paddle sections, Ø1.0 - 6.0 m
Material: steel or stainless steel

Shaft/Mast

Freely suspended bearing
Optional ground storage or catch basket
Length up to 20.0 m
Material: steel or stainless steel

Ex-zone

Ex zone 2

 II 3G Ex h IIA T1 Gc
Geared motors for Ex zone 1 on request

Control unit (optional)

Frequency converter
Delivery without connection cable

Assembly & maintenance

Complete assembly outside the tank possible
Low maintenance effort due to direct access to drive, bearing and seal from the outside
Access to grease lubrication via maintenance hatch

MOTOR
3.0 - 45.0 kW

FLANGE
levelling



BEARING
spherical roller bearing with grease lubrication



LABYRINTH SEAL
with safety device for level monitoring



PADDLE
Ø 1.0 - 6.0 m

SHAFT/MAST
up to 20.0 m

ROTATIONAL SPEED
10 - 60 rpm

Subject to technical changes

As per: 2024-03