

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
CE Ex 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

Simple installation completely from the outside
Low maintenance effort due to easy access to drive, bearing and seal from the outside

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: 2024-02

© SUMA Rührtechnik GmbH | Martinszeller Str. 21 | DE-87477 Sulzberg
Phone: +49 8376 / 92131 - 0 | Fax: - 19 | info@suma.de | www.suma.de/en