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

Efficient use in elevated tanks

Customised design and production depending on tank geometry, substrate properties, as well as stirring task and process definition

Optimal tank proportions: tank diameter to filling level in a ratio of 1:1

Agitating device

Flow-optimised paddles for axial agitating effects

Material: steel or stainless steel

Drive unit

Energy-efficient flat geared motor, gearbox oil lubricated

Mains voltage/frequency and country-specific

Approval according to project specifications

Motor power up to 55kW

Rated rotational speed 10-60 rpm

Shaft/Mast

Freely suspended bearing

Optional ground storage or catch basket

Material: steel or stainless steel

Tank interface

Levelling flange to compensate for tank unevenness

Customised interface adaptation,
Standard flange according to EN 1092-1, size-dependent (DN 400 - DN 800 PN10)

Ex-zone

Ex zone 2

CE Ex II 3G Ex h IIA T1 Gc

Geared motors for Ex zone 1 on request

Sealing

Gas-tight applications:

- non-contact labyrinth seal with liquid sealing media
- max. pressure project-specific

Non-gas-tight applications:

- optionally without seal for open tanks

Control unit

Motor control with frequency converter (optionally available)

PTC monitoring of the motor
(thermistor motor protection relay optionally available)

Fill level monitoring of the labyrinth seal

Bearing

Optimal absorption of radial/axial forces thanks to spherical roller bearings

Assembly & maintenance

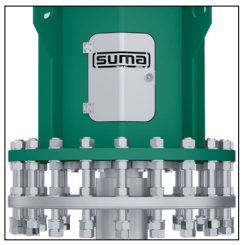
Complete assembly outside the tank possible

Low maintenance effort due to direct access to drive, bearing and seal from the outside

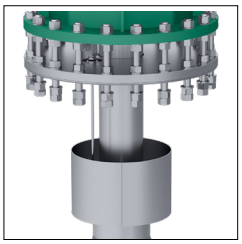
Access to grease lubrication via maintenance hatch

BEARING
spherical roller bearing with grease lubrication

FLANGE
levelling



LABYRINTH SEAL
with safety device for level monitoring



SHAFT/MAST
up to 25.0 m

PADDLE
Ø 1.0 - 6.0 m
Quantity depends on tank height

ROTATIONAL SPEED
10 - 60 rpm

Subject to technical changes

As per: 2025-03 v2