



GIANTMIX MZR

MZR3 110-400

MZR4 150-400

MZR5 185-400

Application

Long-axis agitator for ring- and slalom channels up to 2 m depth

Technical Data

Tube length 4.0 / 4.5 / 5.0 / 5.5 / 6.0 m

Agitator shaft Ø 100 x 3 mm, with 6.0 m Ø 101.6 x 4.0 mm galvanized

PTO with protective guard for the alternative use with tractor

Optional guide rail with rear upstand for an easier installation of the Giantmix

Optional oil inspection glass for monitoring the tightness

Agitator completely manufactured in modular design

Optional with guide rail for easy installation of the Giantmix

Bearing

2 tapered roller bearings to absorb the axial forces

Shaft seal ring, optional: mechanical seal of SiC/SiC

Drive shaft Ø 50 mm with multiple interim bearing and with both sided slip-on connection

Propeller

3-blade high efficiency propeller, dynamically balanced

MZR3	11.0 kW	propeller HD 580	400 rpm
MZR4	15.0 kW	propeller MS 580	400 rpm
MZR5	18.5 kW	propeller ES 580	400 rpm

Galvanized, hardened steel, ss304 or hardened ss304

Motor

11 / 15 / 18.5 kW (IE3-motors)

400 V, 50 Hz, 1,470 rpm

PTC thermistors as overheat protection

Control switch (optional)

Soft start or Star-delta switch

(MZR5 only possible with soft start)

Delivery without connection cable

Gear

Spur gear drive, helical teeth, low noise level

Reduction ratio $i = 3.69$

Oil chamber, gear oil SAE 85W-140 / API GL-5

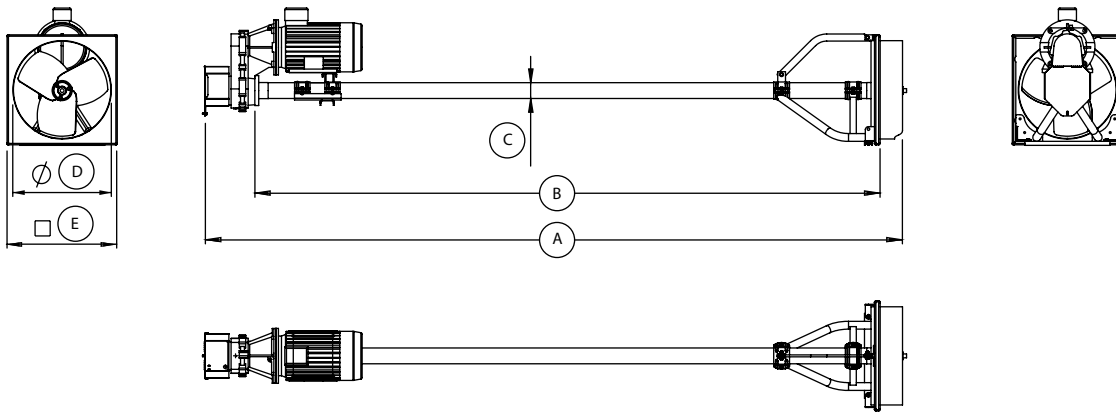
Oil change after 2,000 operating hours

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Dimensions

Type	A [m]	B [m]	C [mm]	D [mm]	E [mm]
MZR 3	4.5 / 5.0 / 5.5 / 6.0 / 6.5	4.0 / 4.5 / 5.0 / 5.5 / 6.0	100	600 / 620	620x620 / 700x700
MZR 4	4.5 / 5.0 / 5.5 / 6.0 / 6.5	4.0 / 4.5 / 5.0 / 5.5 / 6.0	100	600 / 620	620x620 / 700x700
MZR 5	4.5 / 5.0 / 5.5 / 6.0 / 6.5	4.0 / 4.5 / 5.0 / 5.5 / 6.0	100	600 / 620	620x620 / 700x700

Technical data

Type	Rated Power [kW]	Rated Voltage [V]	Rated Current [A]	Frequency [Hz]	Power factor cos ϕ	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate Water [m ³ /min]	Weight approximate [kg]
MZR 3	11	400	19.6	50	0.88	3.69	400	580	2.2	3.5	52	330
MZR 4	15	400	28.3	50	0.83	3.69	400	580	3.0	3.6	53	330
MZR 5	18.5	400	33.7	50	0.85	3.69	400	580	3.3	4.0	59	330

Subject to technical changes

* measured in water and 1.2 m distance