

GIANTMIX Z4



Application

Long-axis agitator for agitation in open and closed liquid manure tanks (for closed tanks just 16.4 / 19.7 ft version)
For tractor use

Technical data

Tube length 16.4 / 19.7 / 23.0 ft
Complete agitator size 20.0 / 23.3 / 26.6 ft
Three-point-chassis (Kat. 2) with two hydraulic cylinder for inclination up to 45°
Completely manufactured in modular design
Optional with swiveling cylinder

Bearing (Drive shaft)

Standard design with drive train HY for one rotational direction,
power-take off connection 1-3/8" (6-chock)
Bearing head as own modular unit
Optional reversing gear for two rotational directions

Bearing (propeller)

2 tapered roller bearings to absorb the axial forces
Propeller shaft Ø 0.11 in
Sealing with shaft sealing rings,
optional mechanical seal of SiC/SiC
Lubrication by oil bath in the agitator tube
Bearing head as own modular unit

Tube and drive shaft

Agitator tube Ø 4.8 x 0.16 galvanized
Drive shaft Ø 0.16 in with multiple interim bearing and with both sided slip-on connection
Tube ist filled with special oil ISO VG 68, approx. 40 %

Propeller

3-blade high efficiency propeller,
dynamically balanced
Propeller-size depends on tractor power
Propeller size:

min. 100 HP (72 kW)	1,000 rpm	Propeller D/S 560
min. 120 HP (88 kW)	1,000 rpm	Propeller HD 580
min. 136 HP (100 kW)	1,000 rpm	PropellerHD 620
min. 177 HP (130 kW)	1,000 rpm	Propeller HD 660

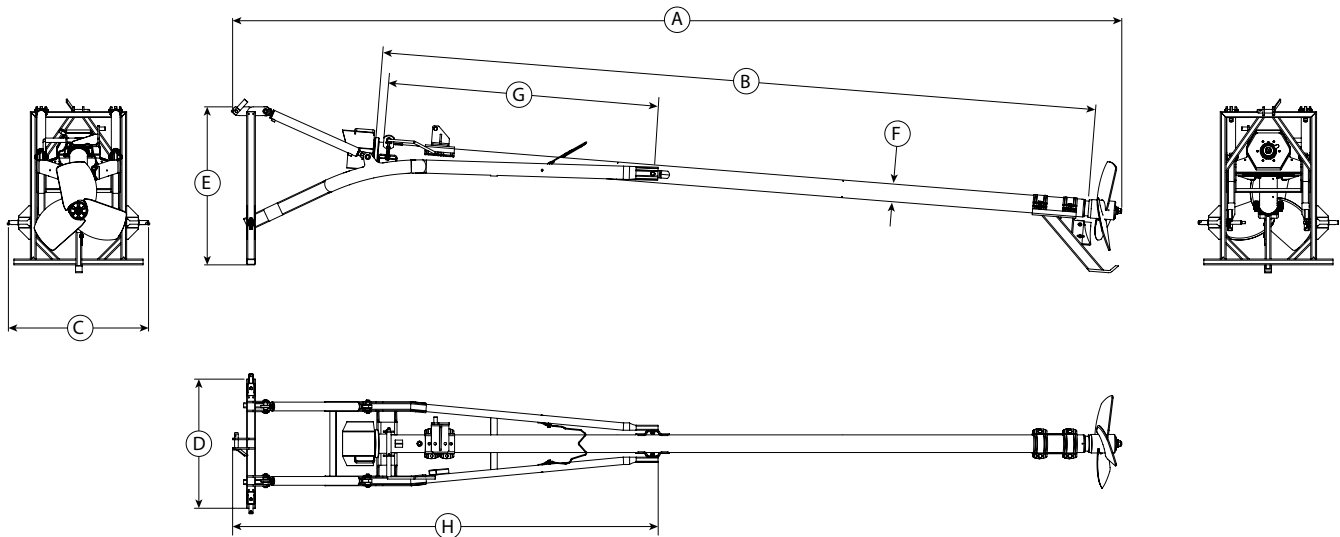
Galvanized, hardened steel or ss304

Accessories

Cardan shaft W2500 (L = 1010),
One-sided wide-angle WWE 2580 (L = 1010)



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Dimensions

Type	A [in]	B [in]	C [in]	D [in]	E [in]	F [in]	G [in]	H [in]	Weight [lbs]
Z4 (16.4 ft)	20.0	16.7	3.15	2.9	3.54	0.4	6.22	9.61	705
Z4 (19.7 ft)	23.3	19.7	3.15	2.9	3.54	0.4	6.22	9.61	771
Z4 (23.0 ft)	26.6	23.0	3.15	2.9	3.54	0.4	9.02	12.63	925

Technical Data

Type	Required tractor power [HP]	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN] *	Flow velocity [m/s] *	Pumping rate water [m ³ /min]
Z4 HYU WEU	100	1,000	22	2,203	24.6	27,737
Z4 HYU WEU	120	1,000	22.9	2,360	24.6	29,851
Z4 HYU WEU	136	1,000	24.5	2,810	25.3	35,398
Z4 HYU WEU	177	1,000	26	3,484	25.3	40,154

Subject to technical changes

* Calculated via CFD simulation and validated in test basin with water

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