

## GIANTMIX FR STATIONARY

**FR3 110-400**

**FR4 150-400**

**FR5 185-400**





### Application

Long-axis agitator for stationary installation  
 Dry matter content up to 14 %  
 Substrate temperature up to 70°C  
 pH-value 6.5 - 8.2

### Technical Data

Tube length 2.5 / 3.0 m  
 Tube Ø 101.6 x 4.0 or 5.7 mm in ss304  
 Sound pressure level 75 dB(A)  
 Installation up to 8 m below substrate level possible,  
 deeper immersion depths on request  
 Oil inspection glas for monitoring the tightness  
 Option: Rubber compression seal Ø 200 mm, galvanized  
 Optional PTO with protection unit for an alternative tractor  
 operation (max. HD+ 700)  
 Agitator completely in modular design  
 POM protection to minimize abrasion

### Motor

11.0 / 15.0 / 18.5 kW : 4 poles  
 400 V, 50 Hz, special tensions on request  
 PTC thermistors PTC 160°C as overheat protection  
 Ex-Motor (Series)  II 3G Ex nA II T3 Gc  
 Special version with 13.5 kW  II 2G Ex e IIA T3 Gb  
 Optional: rain protection hood (ss304)

### Gear

Spur gear drive, helical teeth, low noise level  
 Reduction ratio  $i = 3.69$   
 Oil chamber, gear oil SAE85W-140 / API GL-5  
 Oil change interval after 2,000 operating hours

### Bearing

2 tapered roller bearings to absorb the axial forces  
 Mechanical seals in SiC/SiC, independant of rotation  
 direction  
 Interim bearings for the drive shaft, slide bearing



### Propeller

3-blade high efficiency propeller,  
 dynamically balanced

FR3:	11,0 kW	400 rpm	propeller HD+ 580
FR4:	15,0 kW	400 rpm	propeller HD+ 620
FR5:	18,5 kW	400 rpm	propeller HD+ 660

in ss304, ss316 or hardened steel

### Ex-Zone

Ex-Zone 2 (outside the tank) and Zone 1 (inside the tank)  
 Special version FR4 with 13.5 kW for Zone 1  
 (outside tank)  
 Classification mechanical components:  
  II 2G ck IIA T3

### Control box (optional)

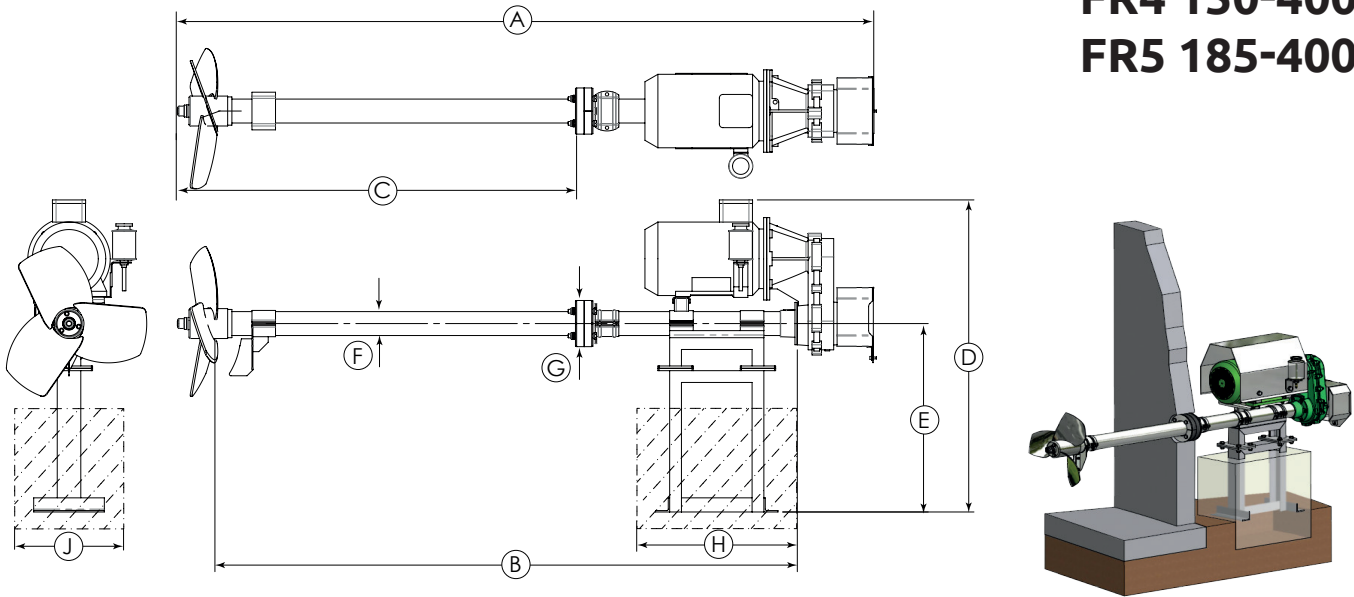
Star-delta-switch, soft starter, frequency converter  
 Delivery without connecting cable

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### Dimensions

Type	A [m]	B [m]	C [m]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	J [mm]
FR 3-5	3 / 3.5	2.5 / 3	1.6 / 2.1	1,325	800	101.6	200	800	500

### Technical data

Type	Rated Power [kW]	Propeller speed [rpm]	Rated Voltage [V]	Rated current [A]	Frequency [Hz]	Power factor cos $\phi$	Gear reduction ratio	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s]*	Pumping rate Water [m <sup>3</sup> /min]	Weight approximate [kg]
FR3	11.0	400	400	21.0	50	0.87	3.69	580	2.2	3.4	52	300
FR4	15.0	400	400	27.3	50	0.86	3.69	620	2.6	3.9	68	300
FR5	18.5	400	400	34.0	50	0.85	3.69	660	3.3	4.3	84	300

Subject to technical changes

\* measured in water and 1.2 m distance