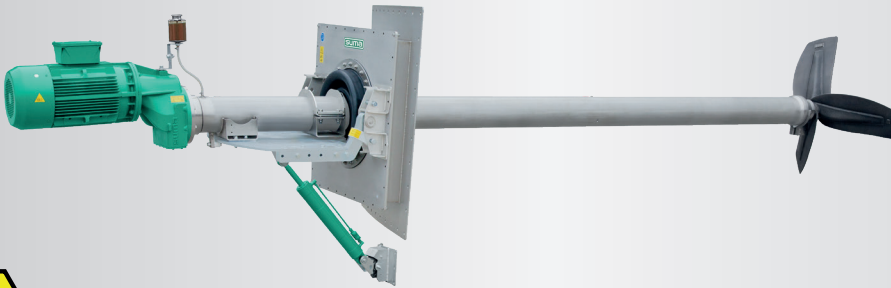


GIANTMIX AMT LL

AMT3 110-135

AMT5 185-135




Application

Long-axis agitator for biogas tanks
 Dry matter content up to 14 %
 Substrate temperature up to 70°C
 pH-value 6.5 - 8.5

Technical data

Tube length 4.0 / 5.0 m
 Tube Ø 220 x 8 mm in ss316
 15° sealing plate 143 x 143 cm in ss304
 ss316 version on request
 Sound pressure level 75 dB(A)
 Installation up to 6 m below substrate level
 Damping system with special rubber on cylinder wall bracket and in hinged brackets
 Oil inspection glas for monitoring the tightness
 Agitator completely manufactured in modular design

Motor

Performance: 11 / 18.5 kW : 8 poles
 400 V, 50 Hz, 730 rpm, special tensions on request
 PTC thermistors 160°C as overheat protection
 Ex-Motor  II 3G Ex nA IIA T3 Gc (ex-zone 2)

Gear

Spur gear drive, helical teeth, low noise level
 Reduction ration $i = 5.37$
 Oil chamber, gear oil SAE 85W-140 / API GL-5
 Oil change after 2,000 operating hours

Bearing

Bearing housing with oil chamber
 2 tapered roller bearings to absorb the axial forces
 Mechanical seal SiC/SiC, independent of rotation direction
 Interim bearings for the drive shaft

Propeller

3-blade high efficiency propeller, dynamically balanced



AMT3	11.0 kW	propeller HD 1050	135 rpm
AMT5	18.5 kW	propeller HD 1200	135 rpm

Hardened steel or ss304

Adjustment range

Horizontal through pivoting frame $\pm 20^\circ$
 Sealing plate 15° optional right/left preset
 Vertical through hydraulic cylinder $\pm 30^\circ$
 Tank opening: 1.000 x 1.000 mm (Plate 143 cm)

Ex-zone

Ex-Zone 2 (outside tank) and Zone 1 (inside tank)
 Classification mechanical components:
  II 2G ck IIA T3

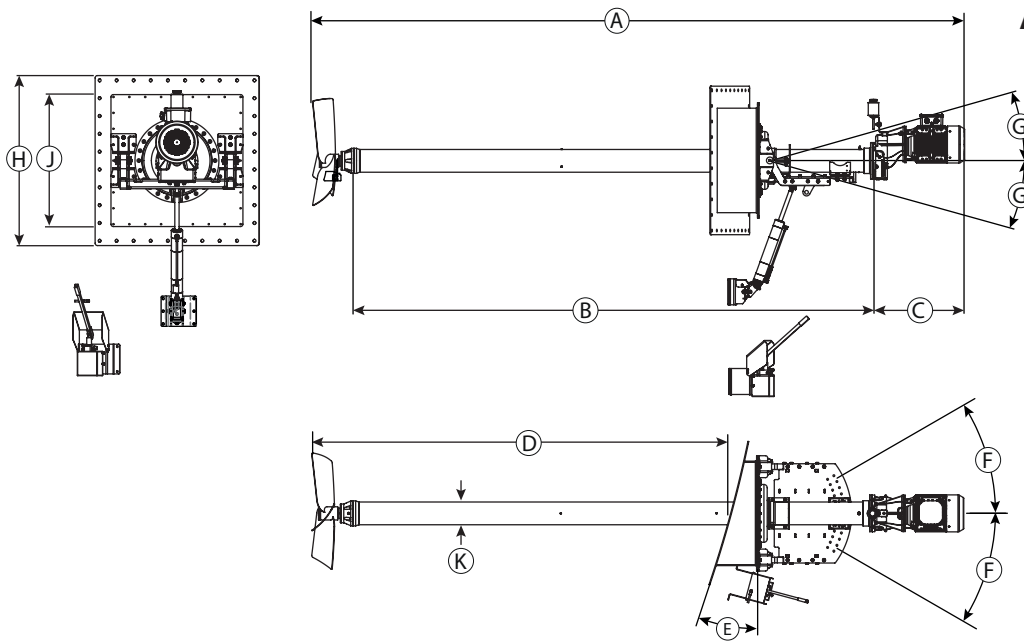
Control box (optional)

Soft start or frequency converter

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Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E	F	G	H [mm]	J [mm]	K [mm]
AMT 3 / 5	5,265	4,000	900	2,970	15°	20°	30°	1,430	990	220
	/	/		/				x		
	6,265	5,000		3,970				1,430	990	

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]
AMT 3	11.0	400	26.5	50	0.70	5.37	135	1,050	4.0	1.9	90	1,300
AMT 5	18.5	400	38.0	50	0.79	5.37	135	1,200	4.4	2.0	135	1,300

Subject to technical changes

* measured in water and 1.2 m distance