



Giantmix BG2

BG2 100-280

BG2 100-380

Powerful
High efficiency
Low cost maintenance



Application

Dry matter content up to 12 %
Substrate temperature up to 70°C
pH-values 6.5 - 8.2

Technical data

Tube length 4.0 / 5.0 m
Foil clamp unit, Ø 750 mm in ss304 for BG2 100-380
Sound pressure level 75 dB(A)
Oil inspection glass as a service indicator and for monitoring the impermeability

Motor

Power: 10 kW
400 V, 50 Hz, 1,430 rpm
PTC thermistors 160°C as overheat protection
Ex-Motor II 3G Ex nA IIA T3 Gc (Ex-zone 2)

Gear

Planetary gear, helical cut, low noise
Reduction $i = 3.83$ or 5.25
Own oil chamber, gear oil SAE 85W-140 / API GL-5
Oil change interval: 2,000 operating hours

Tube

Tube Ø 101.6 x 5.74 mm in ss304, ss316 on request
Stub shaft Ø 50 mm with intermediate bearings and both sided plug-connection

Propeller

3-bladed, dynamically balanced propeller

BG2 100-280	10 kW	propeller HD+ 750	280 rpm
BG2 100-380	10 kW	propeller HD+ 560	380 rpm

Optional galvanized, hardened steel and ss304

Bearing

2 tapered roller bearings to absorb the axial forces
Mechanical seal SiC/SiC, independent of rotation direction
Intermediate storages of the drive shaft

Ex-zone

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

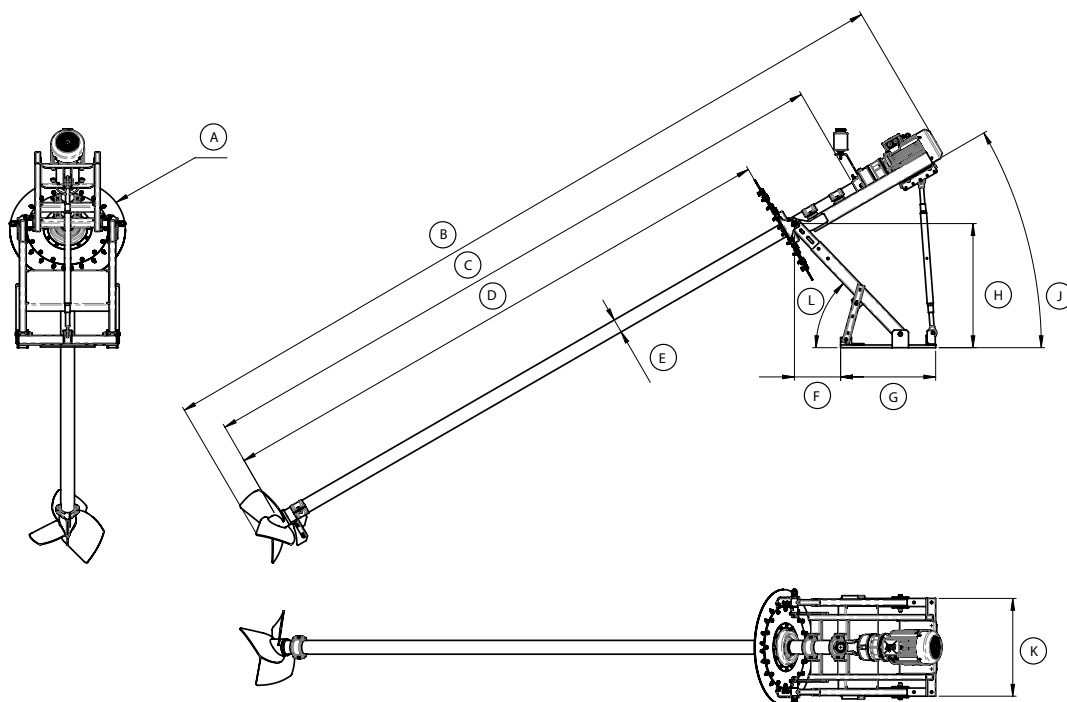
Control box (optional)

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

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Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [°]	K [mm]	L [mm]	
BG2 100-280	850	5,700	5,000	4,400	101.6	175-430	700	600 - 1,200	0° - 30°	720	30° - 62°	
BG2 100-380												

Technical data

Type	Rated power [kW]	Rated Voltage [VΔ]	Rated Current [AΔ]	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 [m³/min]	Weight approximate [kg]
BG2 100-280	10	400	21.0	50	0.82	5.25	280	750	2.3	2.9	74	280
BG2 100-380	10	400	21.0	50	0.82	3.83	380	560	1.8	3.4	48	280

Subject to technical changes

* measured in water and 1.2 m distance