

## GIANTMIX BG2 TOP

**BG2 40-180**

**BG2 40-250**

**BG2 75-280**

**BG2 75-380**

**BG2 100-280**

**BG2 100-380**

### Application


Long-axis agitator for installation on top of the tank  
 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  
 Sealing plate DN 700 (Ø860 mm)\*,  
 other dimensions on request, optional rectangular plate  
 Sealing plate with other angle of inclination on request  
 Sound pressure 75 dB(A)  
 Oil equalizing container for monitoring the tightness  
 POM protection to minimize abrasion

\*BG2 100-280 sealing plate DN 800 (Ø975 mm)

### Motor

Power:  
 4 kW (6-poles - 945 rpm) / 7.5 kW (1,460 rpm) /  
 10 kW (1,430 rpm)  
 400 V, 50 Hz  
 PTC thermistors 160°C (overheat protection)  
 Ex-Motor  II 3G Ex nA IIA T3 Gc (Ex-Zone 2)

### Gear

Planetary gear  
 Reduction ratio  $i = 3.83$  or  $5.25$   
 Separate oil chamber, gear oil Blasias SX 320  
 Oil change interval all 10,000 operation hours

### Tube

Tube Ø 101.6 x 5.7 mm in ss304 or ss316 on request  
 Plug shaft Ø 50 mm with intermediate bearings and both  
 sided- plug-connections

### Propeller

3-bladed, dynamically balanced propeller

BG2 40-180	4.0 kW	propeller HD+ 700	180 rpm
BG2 40-250	4.0 kW	propeller HD+ 620	250 rpm
BG2 75-280	7.5 kW	propeller HD+ 700	280 rpm
BG2 75-380	7.5 kW	propeller HD+ 520	380 rpm
BG2 100-280	10.0 kW	propeller HD+ 750	280 rpm
BG2 100-380	10.0 kW	propeller HD+ 580	380 rpm



ss304, optional galvanized or hardened steel

Option: Suction propeller

### Bearing

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

### Ex-Zone

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

### Control Switch (optional)

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

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**BG2 40-180**

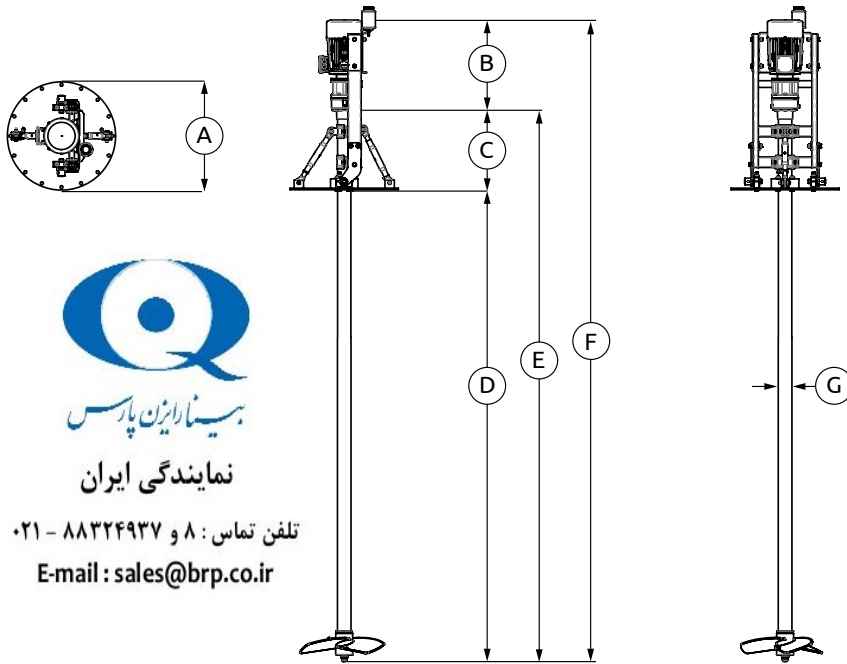
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**BG2 100-380**



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### Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [Ø in mm]		
BG2	860	670	600	3,530 / 4,530	4,130 / 5,130	4,800 / 5,800	101.6		

### 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 <sup>3</sup> /min]	Weight approximate [kg]
BG2 40-180	4.0	400	9.8	50	0.72	5.25	180	700	0.85	2.0	44	395
BG2 40-250	4.0	400	9.8	50	0.72	3.83	250	620	0.95	2.2	38	395
BG2 75-280	7.5	400	13.8	50	0.87	5.25	280	700	2.00	2.6	57	395
BG2 75-380	7.5	400	13.8	50	0.87	3.83	380	520	1.35	2.9	35	395
BG2 100-280	10.0	400	21.0	50	0.82	5.25	280	750	2.30	2.9	74	395
BG2 100-380	10.0	400	21.0	50	0.82	3.83	380	580	1.80	3.4	48	395

Subject to technical changes

\* measured in water and 1.2 m distance

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