

## Remotely Controllable High Torque / High Speed Stirrer keyless chuck

WB3000-DF / WB1800-DF / WB6000-DF

Ideally perform your professional stirring tasks requiring high functionality, safety, and longevity. Prestige touch TFT controller, especially for applications where the remote controller is needed

### Features

- > With all the functions and features of D-series overhead stirrers, vibration-free and silent operation.
- > Equipped with a maintenance-free BLDC motor to generate smooth, quiet, and yet powerful stirring.
- > Powerful torque capable of handling high viscosity tasks.
- > Maintenance of constant motor speed by control system even under conditions of changing viscosity.
- > Best effort function intelligently manages its stirring speed to keep stirring even if the workload is out of its capacity.
- > Prevention of accidental spills or splashes thanks to microprocessor controlled smooth start and stop functions.



A through-shaft design allows for adjusting the impeller position to make height adjustment more convenient



### Keyless chuck

It allows you to quickly and easily remove the stirring elements without any tools. Clamping range: 0.5-10mm

### Specifications

Model	WB3000-DF	WB1800-DF	WB6000-DF
Order No.	100400F	100600F	100800F
Speed range [rpm] <sup>1)</sup>	30~600 (I) 601~3000 (II)	20~360 (I) 361~1800 (II)	60~1200 (I) 1201~6000 (II)
Setting accuracy speed [rpm]	1	1	1
Deviation of speed measurement n > 300rpm	±3 %	±3 %	±3 %
Speed Display	TFT display	TFT display	TFT display
Clockwise or counterclockwise of stirring	Yes	Yes	Yes
Speed setting	Touch key and turning knob	Touch key and turning knob	Touch key and turning knob
Power [W]	150	150	150
Stirring quantity max [L / H <sub>2</sub> O]	100	100	100
Motor principle	Brushless DC motor	Brushless DC motor	Brushless DC motor
Torque max. at stirring shaft [N·cm] <sup>2)</sup>	339(I) / 68(II)	563(I) / 113(II)	170(I) / 34(II)
Stirring element fastening	Keyless chuck, easy to install and replace the shaft.	Keyless chuck, easy to install and replace the shaft.	Keyless chuck, easy to install and replace the shaft.
Chuck range diameter [mm]	0.5~10	0.5~10	0.5~10
Hollow shaft, inner diameter [mm]	10.2	10.2	10.2
Fastening on stand	Extension arm	Extension arm	Extension arm
Extension arm diameter [mm]	13	13	13
Extension arm length [mm]	124	124	124
IP code	IP42   IP40	IP42   IP40	IP42   IP40
Housing material	Cast aluminum coating	Cast aluminum coating	Cast aluminum coating
Interface RS-232/485 and analog connection	Yes	Yes	Yes
Dimensions of motor (W x H x D)	200 x 95 x 230	200 x 95 x 230	200 x 95 x 230
Weight	4.5	4.5	4.5
Power supply	100~240VAC, 50/60Hz	100~240VAC, 50/60Hz	100~240VAC, 50/60Hz

1) Two grades of stirring speed are for this series. The low-speed has more torque, and is suitable for chemical reaction system. And the high-speed is suitable for sample pretreatment. According to the set speed, it can be switched automatically between them.

2) The two speed ranges correspond to different maximum torque.