

Digital, positive rotation, reverse rotation, automatic positive/reverse rotation set-in function and time set-in function



BL1020D, BL1010D

Features

- ▶ Sparkless, adapting durable and excellent brushless DC motor
- ▶ Feedback control system maintains the accurate speed and uniform torque
- ▶ No speed variation in the rating torque even though changing viscosity
- ▶ Torque indicating lamp by changing viscosity
- ▶ Smooth acceleration allows unit to reach set rpm without spillage.
- ▶ Narrow width designed for the effective application
- ▶ Small, light weight and air-tight construction with less noise and designed in safety
- ▶ Convenient, up and down control of the stirring shaft
- ▶ Electronic safety circuit
- ▶ Protection function on the overloaded torque
- ▶ Speed indicating(Scale) : Torque indicating lamp
- ▶ Speed display(Digital)
 - Digital indicating function
 - Timer set-in function
 - Function of the positive/reverse rotation, automatic positive/reverse rotating direction set-in mode
 - Excellent stirring effect when using the automatic positive/reverse rotation set-in

• BL1006D :

As experimentally general stirrer for the medium and high viscosity materials, max. torque of 16kg·cm(156Ncm), in the basis of water, stirring up to 100L and stirring speed range of 50~600rpm

• BL1003D :

Experimental stirrer for the high viscosity, stirring up to 120L for small volume of the high viscosity, in the basis of water, max. torque of 32kg·cm(313Ncm) and stirring speed range of 50~300rpm

• BL1020D :

As experimentally general stirrer for the medium and low viscosity materials, max. torque of 4.8kg·cm(47Ncm), in the basis of water, stirring up to 40L and stirring speed range of 80~2000rpm

BL1010D :

Experimental stirrer for the medium viscosity, stirring up to 80L for small volume of the medium viscosity, in the basis of water, max. torque of 9.7kg·cm(95Ncm) and stirring speed range of 50~1000rpm

Specifications

Model	BL1006D	BL1003D	BL1020D	BL1010D
Stirring Capacity (H ₂ O)	40L	80L	100L	120L
Viscosity (Max.)	20,000mPas (low, medium)	50,000mPas (medium)	70,000mPas (medium, high)	150,000mPas (high)
Motor (output)	Brushless DC motor 100W			
Torque (Max.)	4.8kg · cm (47Ncm)	9.7kg · cm (95Ncm)	16kg · cm (156Ncm)	32kg · cm (313Ncm)
Speed Range	80~2000rpm	50~1000rpm	50~600rpm	50~300rpm
Speed Controller	Feedback control			
Speed Display	Digital			
Rotations	1. Right 2. Left(Operation) 3. Auto reverse (Reverse time setting)			
Timer	99hr 59min			
Chuck Range	Ø1~10mm			
Dimensions (W×D×H)	78×190×170mm			
Weight	3.2Kg			
Electrical Supply	220V 50/60Hz			

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Features

- ▶ Sparkless, adapting durable and excellent brushless DC motor
- ▶ Feedback control system maintains the accurate speed and uniform torque
- ▶ No speed variation in the rating torque even though changing viscosity
- ▶ Torque indicating lamp by changing viscosity
- ▶ Smooth acceleration allows unit to reach set rpm without spillage.
- ▶ Narrow width designed for the effective application
- ▶ Small, light weight and air-tight construction with less noise and designed in safety
- ▶ Convenient, up and down control of the stirring shaft
- ▶ Electronic safety circuit
- ▶ Protection function on the overloaded torque
- ▶ Speed indicating(Scale) : Torque indicating lamp
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 - Function of the positive/reverse rotation, automatic positive/reverse rotating direction set-in mode
 - Excellent stirring effect when using the automatic positive/reverse rotation set-in

- BL620D : As experimentally general stirrer for the low viscosity materials, max. torque 29kg·cm(28Ncm), in the basis of water, stirring up to 20L and stirring speed range of 80~2000rpm
- BL610D : Experimental stirrer for the medium and low viscosity, stirring up to 40L for small volume of the medium viscosity, in the basis of water, and use widely from medium viscosity to low viscosity, max. torque of 5.8Kg·cm(57Ncm) and stirring speed range of 50~1000rpm

- BL606D : As experimentally general stirrer for the medium viscosity materials, max. torque of 9.7kg·cm(95Ncm), in the basis of water, stirring up to 80L and stirring speed range of 50~600rpm
- BL603D : Stirrer for the experiment room, proper to the small volume of high viscosity, in the basis of water, stirring up to 100L and 19.5kg·cm(191Ncm) at max. torque and stirring speed range of 50~300rpm

Specifications

Model	BL620D	BL610D	BL606D	BL603D
Stirring Capacity (H ₂ O)	20L	40L	80L	100L
Viscosity (Max.)	10000mPas (low)	20000mPas (low, medium)	50,000mPas (medium)	100,000mPas (high)
Motor (output)	Brushless DC motor 100W			
Torque (Max.)	2.9kg · cm (28Ncm)	5.8kg · cm (57Ncm)	9.7kg · cm (95Ncm)	19.5kg · cm (191Ncm)
Speed Range	80~2000rpm	50~1000rpm	50~600rpm	50~300rpm
Speed Controller	Feedback control			
Speed Display	Digital			
Rotations	1. Right 2. Left(Operation) 3. Auto reverse (Reverse time setting)			
Timer	99hr 59min			
Chuck Range	Ø1~10mm			
Dimensions (W×D×H)	78×190×170mm			
Weight	3.2Kg			
Electrical Supply	220V 50/60Hz			



- **MS3040D** : (High Speed, Low Viscosity)
Stirrer for the low viscosity materials, at the general experiment room, in the basis of water, stirring up to 10L, max. torque of 2kg·cm(19.6Ncm) and stirring speed range of 200~3000rpm.

- **MS280D** : (Piercing shaft, high speed & low viscosity)
Stirrer for the low viscosity materials at the general experiment room, stirring up to 10L, in the basis of water, max. torque of 2kg·cm(19.6Ncm) and stirring speed range of 200~3000 rpm.

Features

- ▶ Maintain the uniform torque and accurate rotation speed by feedback control of the microprocessor.
- ▶ No speed variation in the rating torque even though change of viscosity during stirring.
- ▶ Small type, light weight & air-tight construction designed safety and less noise.
- ▶ Narrow width design for use of the effective space.
- ▶ Smooth acceleration allows unit to reach set rpm without spillage.
- ▶ Easy to control in up and down of stirring shaft.
- ▶ Clear LED indicating screen (digital).

Specifications

Model	MS3040D		MS280D
Stirring Capacity (H ₂ O)	10L		10L
Viscosity (Max.)	7,000mPas (low)		7,000mPas (low)
Motor (output)	DC motor 60W		
Torque (Max.)	2kg · cm (19.6Ncm)		2kg · cm (19.6Ncm)
Speed Range	200~3000rpm		200~3000rpm
Speed Controller	Feedback control		
Speed Display	Digital		
Chuck Range	Ø1~10mm		
Dimensions (W×D×H)	70×140×159mm	70×140×185mm	78×180×170mm
Weight	2.5Kg	2.6Kg	3.2Kg
Electrical Supply	220V 50/60Hz		

Note : Set ⇒ Stirrer + Impeller(PR350) + Stand(HS320) + Clamp(CH320)

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Head

Features

- ▶ Sparkless, adapting durable and excellent brushless DC motor
- ▶ Feedback control system maintains the accurate speed and uniform torque
- ▶ No speed variation in the rating torque even though changing viscosity
- ▶ Torque indicating lamp by changing viscosity
- ▶ Smooth acceleration allows unit to reach set rpm without spillage.
- ▶ Convenient, up and down control of the stirring shaft
- ▶ Electronic safety circuit
- ▶ Protection function on the overloaded torque
- ▶ Speed indicating(Scale) : Torque indicating lamp
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 - Digital indicating function
 - Timer set-in function
 - Function of the positive/reverse rotation, automatic positive/reverse rotating direction set-in mode
 - Excellent stirring effect when using the automatic positive/reverse rotation set-in



- BL2015D :
Stirrer for the medium and low viscosity at the experiment room and pilot plant by strong power, stirring up to 80L, in the basis of water, max. torque of 13kg-cm(127Ncm) and stirring speed range of 70~1500rpm
- BL2010D :
Stirrer for the medium and high viscosity at the experiment room and pilot plant by strong power, stirring up to 100L, in the basis of water, max. torque of 19.5kg-cm(191Ncm) and stirring speed range of 50~100rpm

- BL2006D :
Stirrer for the high viscosity at the experiment room and pilot plant by strong power, stirring up to 120L, in the basis of water, max. torque of 32kg-cm(313Ncm) and stirring speed range of 50~600rpm
- BL2003D :
Stirrer for very strong and high viscosity at the experiment room and pilot plant by strong power, stirring up to 150L, in the basis of water, max. torque of 65kg-cm(637Ncm) and stirring speed range of 50~300rpm

Specifications

Model	BL2015D	BL2010D	BL2006D	BL2003D
Stirring Capacity (H ₂ O)	80L	100L	120L	150L
Viscosity (Max.)	50,000mPas (medium)	100,000mPas (medium, high)	150,000mPas (high)	high
Motor (output)	Brushless DC motor 200W			
Torque (Max.)	13kg · cm (127Ncm)	19.5kg · cm (191Ncm)	32kg · cm (313Ncm)	65kg · cm (637Ncm)
Speed Range	70~1500rpm	50~1000rpm	50~600rpm	50~300rpm
Speed Controller	Feedback control			
Speed Display	Digital			
Rotations	1. Right 2. Left(Operation) 3. Auto reverse (Reverse time setting)			
Timer	99hr 59min			
Chuck Range	Ø1~10mm			
Dimensions (W×D×H)	100×220×168mm			
Weight	4.7Kg			
Electrical Supply	220V 50/60Hz			