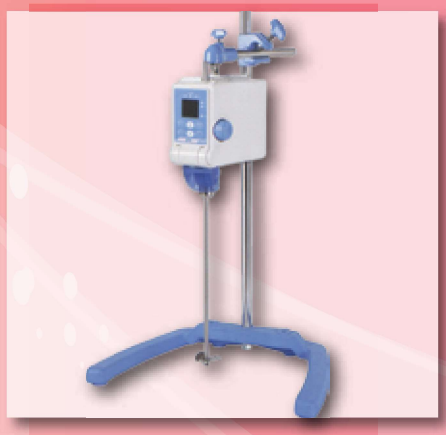
mrc

Over-Head Stirrers



MIXERS 45Watts, 60Watts

RW-Series

RM

RTM

RW-12/06/03-RM-RTM, Small Analog, 45Watts

Features:

- For simple stirring tasks of up to 10Liters (H2o).
- Small high torque motor, quiet, vibration less.
- Shaft and chuck are in stainless steel.
- Easy height adjustment.
- All-in-one design with an auto heat protection.
- Auto fuse cut-off when overload. Stable speed.
- Wide torque and speed selections, can match the different viscosity and volume.

Option:

- RM model with needle tachometer.
- RTM model is equipped with digital speed and torque meter.

Accessories:

Stirring Shaft: Ø8x500mm
Propeller: No. 8 Ø50mm
Stand base: W400xD315xH54mm, 8kg.
Holder Pole: 800mm.

Model	RW-12	RW-06	RW-03
Motor	DC45W		
Speed (rpm)	200~1200	100~600	50~300
Torque (kg-cm)	2.5	5	10
Viscosity (1000 cps/L)	20	50	100
Body size (mm)	E Type: W130xD180xH170, RM/RTM Type: W157xD180xH178		
Body net weight (kg)	4.3		
Power	AC110/220V, 50/60Hz, Single Phase		

RD-12

RD-12/06/03, Small Digital, 60Watts

Features:

- For simple stirring tasks of up to 10Liters (H2o).
- Digital speed meter display.
- Torque meter in analog display.
- All in one construction with sealed enclosure, Quiet operation.
- Torque increase automatically in high viscosity, with a constant speed.
- Fuse cut-off automatically when it is overheat.
- Stainless steel chuck.

Accessories:

Stirring Shaft: Ø8x500mm
Propeller: No. 8 Ø50mm
Stand base: W400xD315xH54mm, 8kg.
Holder Pole: 800mm.

Model	RD-12	RD-06	RD-03
Motor	DC45W		
Speed (rpm)	200~1200	100~600	50~300
Torque (kg-cm)	2.5	5	10
Viscosity (1000 cps/L)	20	50	100
Body size (mm)	W97xD210xH161		
Body net weight (kg)	4.6		
Power	AC110/220V, 50/60Hz, Single Phase		

MIXERS High Viscosity, 200Watts

RG-03/06/12 – RM/RTM, Powerful High Viscosity Mixers

Features:

- Stirring capacity maximum 80Liter (H2o).
- Suitable for material with high viscosity or large volume.
- Chemical resistant coating as well as stainless steel chuck and shaft.
- Small motor with high torque, quiet and vibration less during working.
- Stirring shaft can be adjusted up & down freely.
- Auto function of current accelerating and restraining.
- Overheat and overload safety device.

Options:

- RM type with needle tachometer.
- RTM type with needle tachometer & torque meter.

Model	RG-12	RG-06	RG-03
Motor	DC-200W		
Speed (rpm)	200 ~ 1200	100 ~ 600	50 ~ 300
Torque (kg-cm)	15	30	60
Body size (mm)	W125xD250xH250		
Net weight (kg)	6.5		
Power	AC 110/220V, 50/60Hx		

MIXERS High Torque, High Speed 200, 350, 450Watts

RC-Series, High Torque DC-Mixers

Features:

- Auto function of current accelerating & restraining.
- Small motor with high torque provides quiet and vibration less operation.
- Over heat protection.

Option:

- "D" model with digital rpm meter.
- RM type with needle tachometer & Ammeter.

Accessories:

RC-450RM/D Shaft: Ø8x500mm
RC-200RM/D RC-350RM/D Shaft: Max. Ø13x280mm
Propeller: No. 11 Ø50mm, Ø80mm.
Stand base: W400xD315xH54mm, 8kg.
Holder
Pole

Model	RC-200 RM/D	RC-350 RM/D	RC-450 RM/D
Motor	DC 200W	DC 350W	DC 450W
Speed (rpm)	4,000	7,000	4,000
Torque (kg-cm)	7	5.4	18
Net weight (kg)	17	18	25
Power	AC 110/220V, 50/60Hz		AC 220V, 50/60Hz

MIXERS Multi Functional/Portable

BL-1500/3000/1500D/3000D, High Torque Mixers

Features:

- Brushless DC motor
- With a stainless steel chuck
- Rotor is hollow designed easy moving the stirring shaft up-and-down; the chuck can keep stirring shafts not over 010mm
- Auto torque-compensated and constant speed functions
- With the over-load, over- heat and fuse protection devices
- 2 torque display selections: 5 percentage indicators incl. 20%, 40%, 60%, 80%, 100% Digital display
- LED speed display and digital time setting range 0-99H 0-59Min
- A spring-lift pole is optional.

Standard accessories:

- Stirring shaft: 08 x 500mm
- Propeller: No.8 050mm
- Stand base: W400 x L315 x H54mm, 6kg
- Holder
- Pole: 019 x 800mm
- Optional purchasing accessories, (Ref. P47-P49) (The selection of a spring-lift pole option should be based on the machine body weight.)

Analog

Digital

Manual Model	BL-1500	BL-3000
Automatic Model	BL-1500D	BL-3000D
Motor	DC350W	
Speed (rpm)	150 ~ 1,500	300 ~ 3,000
Torgue (Kg-cm / N.m)	12 / 118	10 / 98
Time Setting	0 ~ 99Hr : 59Min (Digital)	
Body Size (WxDxHmm)	111x232x215	
Body net Weight (Kg)	3.7	
Power	AC 110V/220V, 50/60HZ	

MIXERS 120Watts, High Viscosity

RK-1100/2200, LCD Digital Overhead Mixer

MRC Overhead Stirrers are competent for most demanding tasks with guaranteed safety and performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc.

Features:

- High reliability, long continuous service, outstanding performance
- Cover the speed range from 50 to 2200rpm, the speed is accurate and controlled
- Brushless DC motor drive, low noise and maintenance free
- Setting value and actual value can be displayed, real-time monitoring torque and speed via LCD display
- Overload protection - motor would automatically stop in case of continuous overload
- Anti-spill samples - PC control system starts up smoothly, prevent samples overflow
- Separated safety circuit-automatically cut off the circuit in abnormal conditions, make sure using security.
- Extended application - PC can control & document all operation values via RS232 interface.

Speed 50~1100rpm with control accuracy of ±10rpm

Brushless DC motor for long life, maintenance free

Constant speed despite viscosity change of the sample

Spillage and overload protection safety circuits

Remote PC control and data transmission

LCD display of set and actual speed, torque & time (for RK-1100)

Self - locking drill chuck, tools free

Stirring paddle "top-cross" design, easy to replace the container

Start/run smoothly, prevent sample splatter or overflow

Silicone cover protecting drill chuck from erosive vapor

Model	RK-2200-S	RK-2200	RK-1100
Max. stirring quantity (H20)(L)	20	40	70
Motor input/output power (w)	60/50	120/100	180/160
Power (W)	70	130	200
Speed range (rpm)	50-2200		50-1100
Speed display accuracy (rpm)	±3		±10
Time settings range	-		0-99h59min
Max. torque (kg/cm)	4	6	30
Viscosity max. (mPas)	10000	50000	100000
Weight (kg)	2.8		3.2
Motor type	Brushless DC motor		
Voltage	100~240V, 50/60 Hz		
Speed/Torque/Overload protection display	LCD		
Chuck range diameter (mm)	0.5~10		
Dimension (WxHxD) (mm)	83x220x186		
Protection class	IP21		
Permissible ambient temperature and humidity	5~40°C,80%RH		
Data interface	RS232		

BTG-400/800, High Torque Type Stirrer

Features:

- With a brushless motor
- Suitable for dealing with higher capacities or higher viscosities
- Spring-lift pole helps a fast & easy operation
- With a stainless steel chuck
- Rotor is hollow designed easy moving the stirring shaft up-and-down; the chuck can keep stirring shafts not over 010mm
- Auto torque-compensated and constant speed functions
- With the over-load, over-heat and fuse protection devices
- 2 torque display selections: 5 percentage indicators incl. 20%, 40%, 60%, 80%, 100% Digital display
- LED speed display and digital time setting range 0-99H 0-59Min.

- Standard accessories
- Stirring shaft: Ø10 x 600mm
- Propeller: No.15 Ø80mm
- Stand base: W525xL450xH63mm, 12kg
- Holder
- Pole : Ø28.6 x 985mm
- Optional purchasing accessories. (Ref. P47 P49)

Model	BTG-400	BTG-800
Motor	DC 350W	
Stirrer Speed (rpm)	50 ~ 400	80 ~ 800
Torque (kgf x cm/N.m)	70 / 6.86	35 / 3.43
Timer	0 ~ 99 Hr x 59 Min	
Body Net Weight (kg)	8	
Body Size (W x L x H mm)	122 x 250 x 278	
Power	AC 220V, 50 / 60 Hz	

High Speed Type Stirrer, 1000 ,750Wats

MIXERS

Operation Faceplate

RC-1000

RC-750/1000, High Speed Type Stirrer

Features:

- Stirring shaft is 08mm and its operational height is adjustable
- Overheated protection device and indicators
- With a digital tachometer
- With an analog ammeter.

Standard Accessories:

Shaft: Ø8x600mm
Propeller: No. 11 Ø50mm, Ø80mm.
Stand base: W400xD315xH54mm, 8kg.
Holder
Pole

RC-750

Model	RC-750	RC-1000
Motor	750W	1000W
Speed (rpm)	600 ~ 5,000	1200 ~ 6,000
Torque (kg-cm)	7	18
Net weight (kg)	22	25
Power	AC 110/220V, 50/60Hz	

MIXERS 120Watts, High Viscosity

RO-120V

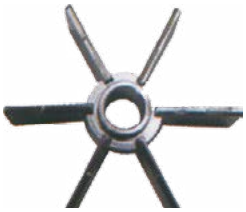
RO-120 Series, High Viscosity Stirrer

Features:

- Revolving vessel design, fits high viscosity fluid.
- Stirring shaft is in stainless steel.
- RO-120V is a vacuum stirrer and can decrease bubble during operation.

Model	RO-120	RO-120V
Capacity (L)	0.2 ~ 5	
Timer (min.)	0 ~ 60 or "NO"	
Speed (rpm)	Up to 120	
Dimension WxDxH (mm)	325x236x593	461x320x613
Weight (kg)	20	35
Power	AC 110/220V, 50/60Hz	

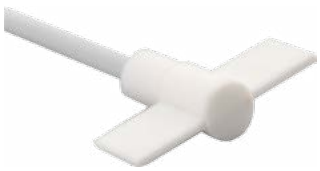
RO-120

No.1 Paddles high shear radial flow	No.2	No.3	No.4	No.5
				
Ø 4.5,5,6.5,7.5,8.5,9.5cm	Ø 5cm	Ø 5cm	Ø 5cm	Ø 5cm
No.6 4-bladed	**No.7**	**No.8 3-bladed**	**No.9**	**No.10 Dissolver stirrer**
Ø 3, 7, 10cm	Ø 5cm	Ø 5cm	Ø 5, 9cm	Ø 1.5, 2.5, 4cm
Standard stirring element. For drawing the material to be mixed from the top to the bottom. Local shearing forces. Generates axial flow in the vessel. Used at medium to high speeds.	-	Flow-efficient design. For drawing the material to be mixed from the top and the bottom. Minimum shearing forces. Used at medium to high speeds.	-	Radial flow, for drawing the material to be mixed from the top and the bottom. High turbulence, high shearing forces. Particle reduction. Used at medium to high speeds.
	-		-	
No.11 Dissolver stirrer High shear dispensing	**No.12**	**No.13 3-bladed, Axial Flow**	**No.14 4-bladed**	**No.15**
Ø 5, 6, 8, 10, 12, 14cm	Ø 10cm	Ø 5cm	Ø 5, 7, 10cm	Ø 8, 10, 12cm
This stirrer provides radial flow for drawing the material to be mixed from the top and the bottom while creating high turbulence and high shearing forces for particle reduction. Medium to high speeds required.	Two-bladed stirrer whos blades open with increasing speed. Perfect for stirring in round vessels with narrow necks and the effect is similar to that of a 4 bladed propeller stirrer. Medium to high speeds required.	Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.	Standard stirring element for drawing the material to be mixed from the top to the bottom. It creates local shearing forces and axial flow in the vessel. This propeller stirrer is used at medium to high speeds.	Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.

MIXERS Impellers

No.16	No.17 Centrifugal stirrer	No.18 Anchor stirrer	No.19	No.20 Paddle stirrer
Ø 8, 10, 12, 16, 20cm	Ø 5cm	Ø 5, 7, 7.5, 8, 11cm	Ø 9.5cm	Ø 7cm
Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.	-	Tangential flow, high shearing rate at edges, minimum deposits on the vessel wall. Used at low speeds. Polymer reactions, even distribution of high mineral contents in liquids. The ideal stirrer for medium to highly viscous fluids.	-	Tangential flow, minimum turbulence, good heat exchange, gentle treatment of product. Used at low to medium speeds. For applications of gentle treatment of materials.
	-		-	

No.21	No.22	No.23	No.24	No.25
Ø 3cm	Ø 2.5, 4cm	Ø 14cm	Ø 10cm	Ø 4cm

No.26	No.27	No.28	No.29
			
Ø 6.5cm	Ø 7cm	Ø 6.8cm	Ø 8.5cm
Crossed stirrer, shaft length 35cm, PTFE coated. Standard stirring element, used at medium and high speeds	Straight stirrer, shaft length 35cm, PTFE coated. Suitable for mixing of low viscosity media, used at medium and high speeds	Blade stirrer, shaft length 35cm, PTFE coated. Gentle processing samples, used at low and medium speeds	Centrifugal stirrer, shaft length 35cm, PTFE coated. Blades open with increasing speed for stirring in a round vessel with a narrow neck, used at medium and high speeds

HOM-302, HOM-312, Homo Mixer Emulsifier

Applications:

The emulsion mixer use flowing molecule to pressurize, accelerate, destroy and strike sample. Through these interaction, the sample would be dispersed & become tiny and blender. It is suitable for emulsifying food, paint and chemicals, such as dairy, juice, vinegar, fat, molasses and so on. It can good efficiency. No precipitation and separation of assure not only the emulsification quality but also phases are strong features of these models.

Features:

- Spring hoister for easy operation.
- Torque increase automatically with a constant speed.
- Overheat and fuse safety device.
- Impeller made by stainless steel SUS316 material.
- HOM-302 with digital display speed.
- HOM-312 with digital timer (0-99 h) (59 min) speed & time display.

Model	HOM-302	HOM-312
Motor	DC 220W	
Max. Speed (rpm)	12,000	12,000
Capacity (L)	0.1 ~ 2	
Body size (mm)	W145xD285xH210	
Stand Body size (mm)	W370xD270xH500	
Net weight (kg)	10	
Power	AC 110/220V, 50/60Hz	