

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



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



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		



RB-Series

RM

RB-25/40-RM, Medium Analog, High Speed

Features:

- Stirring quantity maximum 20Liters(H₂O).
- Small high torque motor, quiet turning.
- Chemical resistant, stainless steel chuck and stirring shaft.
- Motor over-heat protection.
- Fuse cut off automatically while the max. torque is overload.

Option:

- RM model equipped with analog tachometer.

Accessories:

Stirring Shaft: Ø8x500mm

Propeller: No. 8 Ø50mm

Stand base: W400xD315xH54mm, 8kg.

Holder

Pole



Model	RB-25	RB-40
Motor	DC 60W	
Speed (rpm)	0~2500	0~4000
Torque (kg-cm)	2	1.5
Viscosity (1000 cps/L)	5	3
Body size (mm)	W165xD120xH215	
Body net weight (kg)	3.8	
Power	AC110/220V, 50/60Hz, Single Phase	



RP-30

RP-30, RP-30T, Medium Digital

Features:

- Small high torque motor, quite and vibration less in working.
- Stainless shaft and chuck.
- Digital rpm display, touching control pad. Auto-supplement of power.
- Automatic microprocessor controller.
- Digital timer (0~99 h), (59min) with an alarm buzzer.
- T Series with Digital tachometer and torque meter.

Accessories:

Stirring Shaft: Ø8x500mm

Propeller: No. 8 Ø50mm

Stand base: W400xD315xH54mm, 8kg.

Holder

Pole



RP-30T

Model	RP-30 / RP-30T
Motor	DC 60W
Speed (rpm)	3,000
Torque (kg-cm)	1.5
Viscosity (1000 cps/L)	5
Time Settings	0~99 Hours, 59 Min
Body size (mm)	W155xD120xH215
Body net weight (kg)	4
Power	AC110/220V, 50/60Hz

MIXERS

120Watts, High Viscosity



RK-2200



RK-2200, LCD Digital Enhanced Overhead Mixer

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 and document all operation values via RS232 interface.

Model	RK-2200
Max. stirring quantity (H ₂ O)(L)	40
Motor rating input (w)	120
Motor rating output (w)	100
Voltage (VAC)	100-240
Frequency (Hz)	50/60
Power (W)	130
Speed range (rpm)	50-2200
Speed display accuracy (rpm)	±3
Speed display	LCD
Speed display resolution (rpm)	±1
Max. torque (Ncm)	60
Torque display	LCD
Overload protection	LED lights, motor automatic stops
Motor protect	LED lights. motor automatic stops
Viscosity max. (mPas)	50000
Chuck range diameter (mm)	0.5-13
Dimension (W x H x D) (mm)	83x220x186
Weight (kg)	2.8
Protection class acc. to DIN/EN 60529	IP42
Temperature (°C)	5-40
Permission relative humidity (%)	0
Remote control (RS232 interface)	Yes



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)	0 ~ 120	
Dimension WxDxH (mm)	325x236x593	461x320x613
Weight (kg)	20	35
Power	AC 110/220V, 50/60Hz	



RO-120



RG-03/06/12

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.



RM



RTM



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, 50/60Hz		

Options:

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



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)	0 ~ 5,000	0 ~ 6,000
Torque (kg-cm)	7	18
Net weight (kg)	22	25
Power	AC 110/220V, 50/60Hz	

MIXERS

Homo Dispersing, Emulsifier



HOD-302

HOD-302, HOD-312, Homo Disperser

Applications:

Suitable for medicines, dye, textile, adhesive, cosmetic, spice, paint, fiber, and general chemicals, as well as the mixing, homogenizing, & dispersing of the other related chemical.

Features:

- Spring hoister for easy operation.
- Torque increase automatically with a constant speed.
- With an overheat protection and fuse safety device.
- HOD-302 with digital display speed.
- HOD-312 with digital timer (0-99 h) (59 min) speed and time display.



HOD-312

Model	HOD-302	HOD-312
Motor	DC 220W	
Max. Speed (rpm)	12,000	12,000
Capacity (L)	0.1 ~ 5	
Body size (mm)	W145xD285xH210	
Stand Body size (mm)	W370xD270xH500	
Net weight (kg)	10	
Power	AC 110/220V, 50/60Hz	



HOD-402

HOD-402, HOM-402, Large Capacity Homo Disperser/Mixer Emulsifier

Applications (HOM-402):

The emulsion mixer is to use flowing molecule to pressurize, accelerate, destroy and strike samples. Through these interaction, the sample would be dispersed and become tiny and blended. 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.

Applications (HOD-402):

Suitable using for medicines, dye, weave, adhesive, cosmetic, spice, paint, fiber, and general chemicals, drugs, as well as other using for homogenizing, and dispersing of relevant chemical materials.

Features:

- Digital display speed (rpm).
- Auto-acceleration and auto current restraining function.
- Small motor with high torque provides quiet and vibration free. Over heat protection.



HOM-402

Model	HOD-402	HOM-402
Motor	DC 350W	
Max. Speed (rpm)	7,000	
Max. Torque (kg-cm)	5.4	
Stand Body size (mm)	W399xD376xH840	
Net weight (kg)	17	18
Power	AC 110/220V, 50/60Hz	



HOM-302

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.



HOM-312

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	



HOM-010V

HOM-010V, Vacuum Emulsion Mixer

The MRC system is a modular designed mini plant reactor system, planned and designed to simulate and optimize chemical reaction processes as well as mixing, dispersion and homogenization processes at a model scale with a maximum volume of 2000ml. The medium in the reactor vessel can be heated up to 100°C. Vacuum operation is possible up to 26 mbar.

Features:

- Chemical resistant, stainless steel chuck and stirring shaft
- Small motor with high torque provides a quiet & vibration less operation.
- Stable rotational speed.
- Widely used in vacuum emulsion preparation.



Model	HOM-010V
Mixer motor	DC 220W
Speed (rpm)	0 ~ 12,000
Stirring capacity (L)	0.1 ~ 2
Water bath temp.	RT ~ 100°C
Water bath capacity (L)	10
Heater	600W
Vacuum pump motor	250W
Pressure	-740mmHg
Pumping speed (L/min)	60
Power	AC110/220V, 50/60Hz

MIXERS

Multi Functional/Portable

SRA-301/2/4/8, SRD-301/2/4/8, SD Manual/Automatic Multi Functional Mixers



SRD-Series

Features:

- Brushless DC motor (BLDCM). With a high output power, low vibration and low noise design.
- With a stable performance - fast reaction, and with an overheat - over-voltage and current-overload protection devices.
- Through the feedback design to maintain the stirring speed and torque while the machine is working.
- Rotation direction can be changed by manual operation while the machine is stop or working.
- With a protection hood outside the chuck. Any improper open of the hood will stop the machine working automatically.
- When the hood of the chuck is opened, the rotor inside the motor will be locked up to forbid rotating, the stirring shaft can be loosen or fastened up in the chuck by single hand without tools.
- Stirring shaft can be moved up and down for fastening in a proper position. One smaller chuck and thinner stirring shaft are also available for optional purchasing.
- The machine body can do an orbit-like movement. It helps to set up the machine at a special angle for getting a more perfect stirring effect.



SRA-Series

SRA-301/2/4/8 (Manual series):

- Displaying only speed during the rotation. Different speed sets can be used with a variety of different viscosity and capacity.

SRD-301/2/4/8 (Automatic serie):

- Displaying both the speed and torque during the rotation. A variety of speed & torque settings can be with different viscosity & capacity usage.
- With a timer function for doing timer pre-sets of the automatic start and stop running.
- Available for doing timer pre-set of the period between the clockwise and reversal rotation.

Manual Model	SRA-301	SRA-302	SRA-304	SRA-308
Automatic Model	SRD-301	SRD-302	SRD-304	SRD-308
Motor	DC80W			
Speed (rpm)	0 ~ 3,000	0 ~ 1,500	0 ~ 750	0 ~ 375
Torgue (Kg)	2.5	5	10	20
Time Setting	99 : 59 (SRD)			
Body Size (WxDxHmm)	107x179x150			
Stand Base Size (WxDxHmm)	400x315x54			
Body net Weight (Kg)	3			
Power	AC 110V/220V, 50/60HZ			



MIXER-HAND

MIXER-HAND, Portable Stirrer




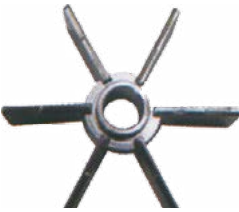



















Features:

- Portable stirring
- All-aluminum shell, absolutely durable.
- 18 feet Power cord complied with CNS
- E-class insulation.

Model	MIXER-HAND
Speed	850 rpm (No-load)
Input power	660 W
Stirring shaft diameter	Ø12 mm
Propeller diameter	Ø100 mm
Power	AC 110V 60Hz

Impellers

MIXERS

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 whose 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	