

Stirring - Magnetic Stirrer



Magnetic Stirrers

Ratek

The MS8 is a general purpose stirrer suitable for most stirring tasks. The recommended stirring bar is 25mm PTFE coated. The MS10 with its heavy duty motor, and powerful magnet would be suitable for more demanding applications. The electronic speed control gives maximum torque. The recommended stirring bar is 40mm PTFE coated.

Rowe Code	Description	RPM	Stirring Capacity
IM2020	Ratek MS8 Magnetic Stirrer	250 - 2400	2 Litre
IM2025	Ratek MS10 Magnetic Stirrer	300- 1900	20 Litre



MST Magnetic Stirrer

VELP

The VELP MST is a small magnetic stirrer, suitable for microtitration and particularly useful where a reliable apparatus of limited height is required.

The AGE & ATE models are respectively medium to high powered magnetic stirrers. Other features:

- Electronic speed regulation
- Good speed adjustment at low rpm.
- High strength driving magnet.

Rowe Code	Description	RPM	Stirring Capacity
IM2015	Velp MST magnetic Stirrer 130mmW x 50mmH x 150mmL	1100	5 Litre
IM2005	Velp AGE magnetic Stirrer 171mmW x 75mmH x 190mmL	1200	8 Litre
IM2006	Velp ATE magnetic Stirrer 250mmW x 120mmH x 285mmL	1000	25 Litre

ESP Magnetic Stirrer

VELP

Ultraflat magnetic stirrer without moving mechanical components so it is maintenance-free.

The stirring system, adjustable by means of a microprocessor, is made up of coils that induce a rotating magnetic field. Its gentle start-up offers optimum progression of the stirring speed. The modern, ergonomic structure is made of materials that guarantee high resistance to the aggression of chemical reagents.

Lighted Magnetic Stirrer

VELP

Magnetic Stirrer with light, single place (AMI) or 4 places separately controlled (AMI 4). Designed for titrations, in particular when perfect light conditions are requested in order for good visualization of their end point. Especially suitable for reactions with weak colour change colour variations.

The units feature good speed regulation, even at a low revolutions, up to 1100 rpm. Features High-power driving magnet type "PCM" operated by a mono-phase motor for continuous operation. Stirring capacity to 5L.

Rowe Code	Description
IM2029	VELP Model AMI lighted magnetic stirrer. 150mmW x 55mmH x 270mmL
IM2030	VELP Model AMI 4, 4 place, separately controlled, lighted magnetic stirrer. 600mmW x 55mmH x 270mmL



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Stirring - Magnetic Stirrer/Hotplate

Magnetic Stirrer/Hotplate

IEC

The I.E.C. Magnetic Stirrer - Hot Plates provide a reliable and rugged source of controlled heat for the laboratory. The heating element is recessed and bonded into the underside of the alloy plate for total thermal efficiency. A combination of insulation and baffle plates ensures that the housing is cool even after prolonged operation at maximum temperature (400°C). It incorporates a powerful brushless motor driving a balanced and powerful 'Alnico' magnet. Dimensions 215mm x 185mm x 125mmH

Rowe Code	Plate Material	Max Temp °C	Heating Control
IM2250	High temp alloy	400	Simmerstat
IM2255	High temp alloy	320	Thermostat
IS1710	PTFE Coated	420	Simmerstat
IS1720	PTFE Coated	300	Thermostat



Magnetic Stirrer/Hotplate

SEM

Compact design featuring continuously variable speed control with speed to approximately 2000rpm, with an adequately powered motor and strong Alnico bar magnet. Choice of energy regulator or thermostat control (optional). Hotplate diameter approximately 125mm, aluminium for good conductivity, PTFE coated (optional), Supplied complete with stainless steel retort rod. The unit is of mild steel body and finished with a bright polyester powder coating for durability.

Rowe Code	Description
IM2200	SEM Model MSH90 Magnetic Stirrer/Hotplate 140mmH x 150mmW x 240mmD



Magnetic Stirrer/Hotplates

VELP

Magnetic stirrer with heating plate built in aluminium alloy and finished with a thick coating of a BLACK proprietary resin that provides uniform heating distribution on the whole surface, with a high resistance to chemical agents. All have electronic speed control up to 1200 rpm, with heating control by way of a thermostat from room temp to 350°C.

Rowe Code	Model	No. of Plates	Heating Plate Dia. mm	Stirring Capacity H ₂ O	Power W	Programmable Timer
IM2215	ARE	1	155	up to 15L	630	No
IM2216	AREX	1	155	up to 20L	650	No
IM2217	T.ARE	1	155	up to 25L	900	Yes
IM2222	ARED	1	180	up to 25L	900	No
IM2224	AM4	4	155	up to 50L	2500	No
TBA	AREC	1	180x180	15 Litre	800	No
TBA	AREC.X	1	180x180	15 Litre	800	No
TBA	AREC.T	1	180x180	15 Litre	800	Yes



AM4



AREX

ARE



AREC

with ceramic heating plate

Models AREC, AREC.X & AREC.T all have a white ceramic heating plate which is highly resistant to corrosion and is excellent for observing changes of colour (e.g. titrations, etc.), and is extremely easy to clean

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Stirring - Magnetic Stirrer/Multistirrer

Multistirrer

VELP

The VELP Multistirrer series enables simultaneous stirring of 6 vessels (Multistirrer 6) or 15 vessels (Multistirrer 15). The Multistirrer 6 will stir 6 vessels with a maximum diameter of 85mm while the multistirrer 15 will stir 15 vessels with a maximum diameter of 64mm.

Both units have electronic speed regulation from 50 to 850 rpm and utilise the "PCM" type high-power driving magnets. The units will remain cool even after many days of continuous operation.

Rowe Code	Description
IM2207	VELP Multistirrer 6 240mmW x 55mmH x 408mmL
IM2209	VELP Multistirrer 15 240mmW x 55mmH x 408mmL



Stirring - Mixer

Mixer - Blood Tube Roller

Ratek

Rowe Code	Model	Description
IR2050	BTR5	Blood Tube Roller mixers available in 5 or 10 roller versions. The 5 roller model will hold up to 12 x 10mL blood tubes or 24 x 5mL.
IR2060	BTR10	The 10 roller model will hold up to 27 x 10mL or 54 x 5mL blood tubes. The rollers are mounted eccentrically to provide a rocking as well as a rolling motion to the tubes, and speed is variable from 10 to 60 rpm. Can be supplied with parallel mounted rollers if preferred.

Mixer - Orbital Incubator

Ratek

Rowe Code	Model	Description
IO1012	OM11	A compact benchtop Orbital Mixer/Incubator with cabinet temperature controllable between approximately 28° and 75°C. The 400 x 400mm platform will hold up to 5 x 1 litre or 4 x 2 litre erlenmeyer flasks, and has a maximum speed of 400 rpm with smaller loads. Tulip type clips and racks and adjustable roller racks are available, whilst customised fittings can be provided.
IO1011	OM15	A heavy duty, large capacity orbital mixer/incubator, with a 25mm diameter orbital action to suit a range of mixing and incubation applications. The 600 x 450 mm platform is mounted on precision ball bearings and is driven by a new super quiet, adjustable, counter-balanced drive system, that allows the mixer to run continuously if required.



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Stirring - Mixer

Mixers - Orbital

Ratek

Rowe Code	Model	Description
IO1015	MM1	A small capacity Orbital Mixer designed for light duty mixing in flat bottomed containers or racks. The 180 x 180mm platform is fitted with a high grip rubber mat, and speed control is variable from 20 to 200 rpm. Ideal for gentle agitation in small flasks, test tubes, petri dishes etc.
IO1005	OM6	A medium capacity benchtop mixer with the all new microprocessor controlled super quiet orbital drive system. Holds up to 4 x 2 litre flasks. Complete with digital tachometer Timer to ensure reliable & repeatable procedures at any speed from 40 - 400rpm. Includes 3 user preset programmes. Platform size 350 x 350mm.
IO1004	OM7	The OM7 orbital mixer has a 500mm square platform supported by precision ball races and can handle loads up to 25kg. It is suitable for use in many applications including medical diagnostics, sample preparation, product testing etc. The digital speed control has a range of 30-400 rpm and is controlled from the easy to read front panel where a large LED display can show set and actual speed, when required the OM7 can run for extended periods unattended. The timer can be set from 0-99 in either minutes or hours & has 3 memory buttons to allow repeat time/speed functions to be stored. A nitrile mat is supplied fitted to the platform and is sufficient for holding containers at low speeds. For higher speeds optional racks are available.
IO1006	OM8	A heavy duty large capacity mixer with a 25mm diameter orbital action to suit a range of mixing applications, suitable for medical diagnostics, haematology, sample preparation, etc. The 700 x 530 mm platform is mounted on precision ball bearings and is driven by a new super quiet, adjustable, counterbalanced drive system, that allows the mixer to run continuously if required.

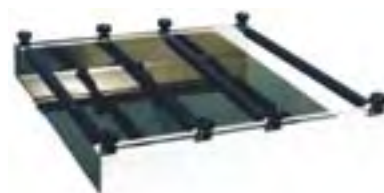


Mixers, Racks for Platform Mixers

Ratek

Adjustable Roller Racks and Tulip Clip type racks are available for all platform type mixers. A range of clip sizes is available to suit all of the commonly used Erlenmeyer flasks.

Rowe Code	Model	Description
IR2010	RR10	Universal rack to suit OM11
IR2020	RR5	Universal rack to suit OM6, RPM5, RM2
IR2015	RR15	Universal rack to suit OM15
IR2025	RR25	Universal rack to suit OM8, OM25
IO1031	TCT10	Tulip Clip Tray to suit OM11
IO1030	TCT5	Tulip Clip Tray to suit OM6, RPM5, RM2
IO1032	TC50	Tulip Clip to suit 50mL flask
IO10325	TC100	Tulip Clip to suit 100mL flask
IO1033	TC250	Tulip Clip to suit 250mL flask
IO1034	TC500	Tulip Clip to suit 500mL flask
IO1035	TC1000	Tulip Clip to suit 1000mL flask
IO1036	TC2000	Tulip Clip to suit 2000mL flask



Stirring - Mixer



Mixer - Reciprocating

Ratek

Rowe Code	Model	Description
IM2870	RM2	A medium capacity benchtop mixer with microprocessor controlled super quiet reciprocating drive system. Reciprocating action ideal for bottles, flasks, separating funnels etc. Speed range from 20 -200rpm. Digital tachometer and timer. Includes 3 user preset programs. Platform size 350 x 350mm.



Mixer Rocking Platform

Ratek

Rowe Code	Model	Description
IM2885	RPM5	A medium capacity benchtop mixer with micro processor rocking platform drive system. Variable tilt action with speed range of 4 -40 rpm complete with digital tachometer and timer. Includes 3 user preset programs. Platform size 350 x 350mm.



Mixer - Rotary Suspension

Ratek

Rowe Code	Model	Description
IM2805	RSM7	A Rotary mixer suitable for many applications where an end over end action is required, including blood & sample mixing. The tilting head allows for the disc to be held at any angle from horizontal to vertical enabling a wide range of different mixing actions. A centre locking screw is provided for heavier and unbalanced loads. It is supplied with a disc that has 20 threaded inserts & clips for tube diameters to suit customer specifications.

Mixer - Rotary

VELP

ROTAX 6.8 can be used for all applications requiring overturning, rotating stirring.

The instrument is designed for evaluating the solubility of pollutant substances, sludge, sediments and solid wastes in water.

Some benefits of this new unit:

EASY TO USE - new digital display, giving the possibility to select and visualize the speed;

PRECISE - electronic regulation of the speed, from 0 to 30 rpm, 1 rpm selection;

SAFE – new safety device, to stop the unit if something blocks the rotation.

The instrument works in accordance with DIN 38414 and UNI 10802 ("Criteria to admit wastes to dump").



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Stirring - Mixer

Mixer - Universal

Ratek

Rowe Code	Model	Description
IU3000	UM12	A large capacity benchtop mixer with the all new microprocessor controlled super quiet orbital drive system. Can hold up to 14 flasks of various sizes. Flask clamps can be secured at any angle for a variety of mixing actions. Reliable speed control from 30 - 40 rpm.
IU3001	UMC1	Clamp for Universal Mixer UM12



Mixer - Vortex

Ratek

Rowe Code	Model	Description
IV1040	VM1	This very popular Vortex Mixer has been upgraded with an improved drive system and is now housed in an injection moulded case. It has two operating modes where it can be run continuously or by applying downward pressure with a tube into the silicone cup. Speed is controlled from 200 - 2400 rpm electronically.



Mixer - Vortex

VELP

The ZX3 and RX3 are traditional style vortex mixers with epoxy coated high chemical resistant cast aluminium body and suction cup feet for stability. The ZX3 has manual or continuous operation whilst the RX3 operates with a constant vibration speed of 2400rpm.

The Wizard has an infrared sensor which detects the presence of the test tube and automatically starts the vibration. No pressure needed by the lab operator!

The Classic has an automatic "touch" mode which starts with a light amount of pressure by the test tube on the cupping glass

ZX3

RX3



Rowe Code	Model	Description
IV1075	Zx3	Manual or continuous operation
IV1074	Rx3	Manual operation only
IM1063	Wizard	Infrared sensor, continuous operation
IM1062	Classic	Touch mode, continuous operation

Wizard



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Stirring - Overhead Stirrer

Overhead Stirrers

VELP

VELP Scientifica have a choice of stirring motors depending on user requirements.

The laboratory stirrers model LS and DLS are characterized by medium to high torque, allowing their use with **medium viscosity** liquids.

The laboratory stirrers model LH and DLH are characterized by high torque, allowing their use with **highly viscous** liquids.

All units have a powerful motor with a sturdy construction that is microprocessor controlled assuring a constant speed even if variations of viscosity of the stirred liquid occur. Choice of stirring speed between 50 and 2000 rpm. A progressive start avoids spillages of stirred liquids. A safety system against "over loads" protects the equipment in case of improper operation or motor failure.

The quality of manufacturing materials allows a continuous noiseless and precise operation, absolutely reproducible. The manufacturing technology assures a safe and easy operation with a limited volume and weight.

Ergonomically designed, the modern & compact finish make these units practical and attractive. The models DLS and DLH are equipped with two digital displays, showing clearly the set and actual speed.



IS2215

IS2210



Rowe Code	Model	Power (W)	Stirring Speed rpm	Stirring Capacity	Speed Display
IS2220	ES	30	50-1300	15 Litre	-
IS2240	PW	120	20-1200	70 Litre	-
IS2206	BS	60	50-2000	25 Litre	-
IS2210	DLH	120	50-2000	40 Litre	LCD
IS2215	LH	120	50-2000	40 Litre	-
IS2200	DLS	60	50-2000	25 Litre	

* We also supply other brands of overhead stirrers



IS2240



IS2220



IS2206



IS2200

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Stirring - Accessories

Overhead Stand and Clamp

Rowe Code	Description
IS2300	Support Rod & Base
IS2305	Double clamp

Velp



Overhead Stirring shafts

Rowe Code	Description	Features	Uses
IS16594	Propeller	Standard stirring shaft axial flow from bottom to top.	Medium to high speeds, high solids, flocculation, mixing of thickening agents
IS16595	2 floating blades	Two blades open when speed increases, giving an axial flow from top to bottom	Medium to high speeds, high solids, flocculation, mixing of thickening agents.
IS16596	Turbine	Produces a radial flow with movement of products from top and from bottom, with strong turbulence Medium to high speeds for dissolving	Medium to high speeds for dissolving products or breaking particles
IS16597	Turbo propeller	Produces an axial flow from top to bottom with limited shearing. Avoids contact of propeller with vessel. Medium to low speeds of high solids,	Medium to low speeds of high solids, flocculation or dissolving dyestuffs



Stirring shaft with paddle, six holes, stainless steel

IS16596
Stirring shaft with turbine, stainless steel

IS16597
Stirring shaft with turbo propeller, stainless steel

Stirring shaft with anchor, stainless steel

IS16595
Stirring shaft with floating blades, stainless steel

Stirring shaft with folding blade, stainless steel

Stirring shaft with fixed blade, stainless steel

IS16594
Stirring shaft with propeller, stainless steel

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Stirring - Accessories

These stirring bars have a permanent magnet core of the type AlnicoV. The magnet is isostatically encapsulated in pure PTFE.

Rowe Tip !

(To prevent demagnetisation, stirring bars using Alnico magnets should not be stored in a random mass, but kept "paired" and should not be dropped on hard, especially steel surfaces).

Cylindrical

Cowie

Smooth round profile, a popular general - purpose stirrer for a wide variety of applications.



Rowe Code	Length mm	Diameter mm	Std. Pack Size
PM2254	6	3	ea
PM2256	8	3	ea
PM2258	12	4.5	ea
PM2262	13	6	ea
PM2265	15	6	ea
PM2270	20	6	ea
PM2285	25	5	ea
PM2275	30	6	ea
PM2280	40	7	ea
PM2815	40	8	ea
PM2900	50	8	ea
PM2943	60	10	ea
PM2950	70	10	ea
PM2980	80	10	ea

Pivot Ring

Use in containers with bases that are slightly curved or uneven.



Rowe Code	Length mm	Diameter mm	Std. Pack Size
PM2255	8	3	ea
PM2260	13	8	ea
PM2305	15	4.5	ea
PM2400	20	6	ea
PM2500	25	6	ea
PM2630	30	6	ea
PM2750	35	6	ea
PM2800	40	8	ea
PM2860	45	8	ea
PM2941	50	8	ea
PM2946	60	10	ea
PM2975	70	10	ea

Stirring - Accessories

Stirring Bars - Plain

Similar in action to cylindrical but give more turbulence at low speed.

Rowe Code	Length mm	Diameter mm	Std. Pack Size
PM2310	15	4.5	ea
PM2340	20	6	ea
PM2620	30	7	ea
PM2810	40	7	ea



Stirring bars are also available in other forms and sizes.

Other types include:

- Octahedral - Similar action to Pivot Ring.
- Triangular - Particularly effective for dissolving solids and mixing sediments because of the scraper-like action on the base of the container.
- Oval - For use in round bottom flasks.
- Cross head - Designed for use with tube-like containers yet very effective as general stirrers.

Stirring Bar Retrievers

Kartell

PVC coated magnet

Rowe Code	Diameter mm	Length mm	Std. Pack Size
PM3000	11	240	ea
PM3050	11	300	ea



Stirring Paddles

The blades are made of chemically resistant polypropylene and are fixed to a steel rod covered with PVC, with a diameter of 8mm x 350mm long.

Rowe Code	Description	Width mm	Std. Pack Size
PS1290	Two fixed blades	40	ea
PS1300	Two collapsable paddles - fully extended	60	ea
PS1320	"U" shaped	65	ea
PS1330	Two collapsable paddles - fully extended	100	ea



Stirring Rod

Material: Polypropylene

White, one piece rod with flattened end forming two small spatulas. Policeman type

Rowe Code	Length mm	Std. Pack Size
PP2150	245	ea



Stirring - Accessories

Stirring Rods - Glass



Rowe Code	Type Glass	Length mm	Diameter mm	Std. Pack Size
GS1160	Soda	150	6	ea
GS1150	Soda	200	6	ea
GS1200	Borosilicate	200	8	ea
GS1210	Borosilicate	200	9	ea
GS1250	Borosilicate	300	8	ea
GS1255	Borosilicate	300	9	ea

Glass rod in 1.5m lengths is also available

Stopcocks

Material: Polypropylene and High Density Polyethylene

Kartell

Ideal for liquids and gasses under low pressure (operating pressure 0.5 bar) or low vacuum. HDPE body interfaces with HDPE tap giving a smooth turning action requiring no lubricants. All are straight bored.



Rowe Code	O.D. mm	Bore mm	Std. Pack Size
PT1010	8	4.9	ea
PT1012	10	7.0	ea
PT1014	13	10.9	ea
PT1016	15	12.7	ea

Stoppers

Polyethylene

Stoppers according to DIN standards 12242 ensuring sealing action on non-standard surfaces.



Rowe Code	Cone Size	Colour	Std. Pack Size
PS1503	10/19	Blue	ea
PS1505	12/21	Green	ea
PS1510	14/23	Brown	ea
PS1520	19/26	Yellow	ea
PS1550	24/29	Red	ea
PS1565	29/32	Black	ea
PS1570	34/35	White	ea

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