



Stirring & Heating



Labfirst Scientific Instruments (Shanghai) Co., Ltd.



MICROSTIR 20/ MICROSTIR 40

LED Overhead Stirrer

Features >>>

- High reliability and outstanding performance
- Wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- LED screen for monitoring actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Large chuck diameter for many shaft types

Set of Overhead Stirrer tools

Cat.No. 920821



Contains one vertical rod, six stirring blades, Such as Propeller stirrer, Paddle stirrer, Centrifugal stirrer, Flat-blade stirrer, Radial-flow stirrer, Anchor stirrer and Disassembling tool

Specifications	MICROSTIR 20	MICROSTIR 40
Max. stirring quantity[H ₂ O]	20L	40L
Speed range	50~2200rpm	50~2200rpm
Max. torque	40N·cm	60N·cm
Viscosity max.	10000mPa·s	50000mPa·s
Motor type	Brushless DC motor	Brushless DC motor
Speed display	LED	LED
Overload protection display	LED	LED
Chuck range diameter	0.5~10mm	0.5~10mm
Motor input power	60W	120W
Motor output power	50W	100W
Power	70W	130W
Voltage,Frequency	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21
Weight	2.8kg	2.8kg
Permissible ambient temperature and humidity	5~40°C,80%RH	5~40°C,80%RH

Plate Stands >>>

Universal Plate Stand (for MICROSTIR 20/40/70)

Cat. No.920803



Dimension [W x D x H] :
20x31x78cm
Material: cast iron




Grand Plate Stand (for MICROSTIR 70)

Cat. No.920801












Dimension [W x D x H] :
33.5x46.3x78cm
Material: cast iron

Lab1st overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:

<p>Propeller stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring applications at medium and high speed</p> 	<p>Cat. No.920804</p>	<p>Paddle stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: 316L stainless steel For gentle mixing at low and medium speeds</p> 	<p>Cat. No.920806</p>
<p>Straight stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel For low viscosity media at medium and high speeds</p> 	<p>Cat. No.920805</p>	<p>Centrifugal stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 9cm Shaft diameter: Ø8mm Material: 316L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.</p> 	<p>Cat. No.920807</p>
<p>Propeller stirrer</p> <p>Shaft length: 35cm Stirrer diameter: 6.5cm Shaft diameter: Ø8mm Material: PTFE coated Standard stirring applications at medium and high speed</p> 	<p>Cat. No.920812</p>	<p>Paddle stirrer</p> <p>Shaft length: 35cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: PTFE coated For gentle mixing at low and medium speeds</p> 	<p>Cat. No.920814</p>
<p>Straight stirrer</p> <p>Shaft length: 35cm Stirrer diameter: 7cm Shaft diameter: Ø8mm Material: PTFE coated For low viscosity media at medium and high speeds</p> 	<p>Cat. No.920813</p>	<p>Centrifugal stirrer</p> <p>Shaft length: 35cm Stirrer diameter: 8.5cm Shaft diameter: Ø8mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.</p> 	<p>Cat. No.920815</p>
<p>Grand propeller stirrer</p> <p>Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring</p> 	<p>Cat. No. 920808</p>	<p>Grand paddle stirrer</p> <p>Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear</p> 	<p>Cat. No.920810</p>
<p>Grand anchor stirrer</p> <p>Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring or for those easily precipitate</p> 	<p>Cat. No. 920809</p>	<p>Grand dissolving stirrer</p> <p>Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Breaking down granules in the mixture with strong shear</p> 	<p>Cat. No.920811</p>
<p>Flat-blade stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed stirring, low viscosity and medium viscosity materials</p> 	<p>Cat. No. 920817</p>	<p>Anchor stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials</p> 	<p>Cat. No.920819</p>
<p>Radial-flow stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, low viscosity or medium viscosity materials, recommended for the treatment of gas in liquid</p> 	<p>Cat. No. 920818</p>	<p>Spiral stirrer</p> <p>Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, medium viscosity and high viscosity materials, recommended for liquid homogenization or suspension treatment</p> 	<p>Cat. No. 920820</p>

Magnetic hotplate stirrers are used for low viscosity liquids or solid mixing, chemical synthesis, physical and chemical analysis, bio-pharmaceuticals etc. Lab1st provides different series, heating range covers from 120°C–550°C:




Magnetic Hotplate Stirrers:

Series	Model	Image	Stirring Position	Display	Work plate Size	Max. Heating Temp.	Max. stirring quantity(H ₂ O)
Super HS series	Super HS-10Pro		1	LCD	254X254mm	500°C	30L
	Super HS-7Pro		1	LCD	184x184mm	550°C	20L
	Super HS-7		1	LED	184x184mm	550°C	10L
HS series	HS-5		1	LCD	Ø135mm	340°C	20L
	HS-5+		1	LCD	Ø135mm	340°C	20L
	HS-5T		1	LCD	Ø135mm	340°C	20L
	HS-5S		1	Scale	Ø135mm	340°C	20L
Basic IHSI series	HS-5 basic 2		1	LCD	140x140mm	380°C	5L
	HS-5 basic		1	LED	Ø135mm	280°C	3L
Multi-point series	Multi-point HS-4		4	LCD	Ø135mm	340°C	3Lx4
	Multi-point HS-10		10	Scale	180x450mm	120°C	0.4Lx10

Magnetic Stirrers:

Image	Model	Stirring Position	Display	Work plate Size	Max. stirring quantity(H.0)
	Super MS-7S	1	Scale	184x184mm	10L
	MS-5S	1	Scale	Ø135mm	20L
	MS-5 basic 2	1	LCD	140x140mm	5L
	MS-5 basic	1	LED	Ø135mm	3L
	MS-5 basic B	1	Scale	Ø135mm	3L
	MiStir Square	1	Scale	120x115mm	1.5L
	MiStir	1	Scale	Ø120mm	1.5L
	MinThi	1	-	Ø90mm	0.8L
	Multi-point RO-15**	15	LCD	460x304mm	0.4Lx15
	Multi-point RO-10	10	Scale	180x450mm	0.4Lx10

Hotplate:

Image	Model	Display	Work plate Size	Max. Heating Temp.
	Super HP-10 Pro	LCD	254x254mm	500°C
	Super HP-7	LED	184x184mm	550°C
	HP-5 basic 2	LCD	140x140mm	380°C

**Coming soon

Application guidance:

Notice: HS-5 basic 2, HP-5 basic 2 & HS-5 basic are not available for chemical fields.

Fields		Super HS-10Pro/ Super HS-7Pro/ Super HS-7/ Super HP-10Pro/ Super HP-7	HS-5/ HS-5T/ HS-5+/ HS-5S/ Multi-point HS-4	HS-5 basic 2/ HP-5 basic 2	HS-5 basic	Multi-point HS-10	Magnetic Stirrers (none heating models)
Pharmaceutical	Chemical Synthesis	■	■				
	Biochemical Drugs	■	■				
	Medicine Testing	■	■				
	Drug Formulation	■	■				
Chemical Industry	Petrochemical Industry	■	■				
	Inorganic Chemical Synthesis	■	■				
	Organic Chemical Synthesis	■	■				
	Daily Use Chemical Industry	■	■				
	Painting/Rubber/Plastic	■	■				
	Fertilizer/Pesticide	■	■				
Environmental	Water Quality Analysis				■	■	■
	Pesticide Residue Testing				■	■	■
	Chemical Pollution Analysis				■	■	■
Research & Education	Basic Chemical Experiments	■	■		■	■	■
	Material Analysis			■	■	■	■
	Liquid Mixing			■	■	■	■
	Chemical Synthesis	■	■				
Food Industry	Food Additive	■	■	■	■		
	Dairy Products	■	■	■	■		
	Nutrition Analysis	■	■	■	■		
Biological Engineering	Cell Culture						
	Biological Reagents		■	■	■	■	
	Biochemistry		■	■	■	■	

Overhead stirrers are used for middle or high viscosity samples mixing, widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries etc.

Overhead stirrers:

Models					
Models	MICROSTIR 20Pro	MICROSTIR 20	MICROSTIR 40Pro	MICROSTIR 40	MICROSTIR 70Pro
Max. Stirring Quantity(H₂O)	20L	20L	40L	40L	70L
Constant Speed	YES	NO	YES	NO	YES
Display	LCD	LED	LCD	LED	LCD
Speed Range	50–2200rpm	50–2200rpm	50–2200rpm	50–2200rpm	50–1100rpm
Max. Torque	40N · cm	40N · cm	60N · cm	60N · cm	300N · cm
Viscosity Max.	10000mPa · s	10000mPa · s	50000mPa · s	50000mPa · s	100000mPa · s