LAB1ST

Stirring&Heating

Labfirst Scientific Instruments (Shanghai) Co., Ltd.

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

Propeller stirrer — Cat. No.920804

Shaft length: 40cm
Stirrer diameter: 5cm
Shaft diameter：Ø8mm
Material: 316L stainless steel
Standard stirring applications at medium and high speed

Straight stirrer — Cat. No.920805

Shaft length: 40cm
Stirrer diameter: 6cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
For low viscosity media at medium and high speeds

Propeller stirrer — Cat. No.920812

Shaft length: 35cm
Stirrer diameter: 6.5cm
Shaft diameter: Ø8mm
Material: PTFE coated
Standard stirring applications at medium and high speed

Straight stirrer — Cat. No.920813

Shaft length: 35cm
Stirrer diameter: 7cm
Shaft diameter: Ø8mm
Material: PTFE coated
For low viscosity media at medium and high speeds

Grand propeller stirrer — Cat. No. 920808

Shaft length: 60cm
Stirrer diameter: 10cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Standard stirring

Grand anchor stirrer — Cat. No. 920809

Shaft length: 60cm
Stirrer diameter: 10cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Standard stirring or for those easily precipitate

Flat–blade stirrer — Cat. No. 920817

Shaft length: 40cm
Stirrer diameter: 6cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Suitable for medium speed stirring, low viscosity and medium viscosity materials

Radial–flow stirrer — Cat. No. 920818

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

Paddle stirrer — Cat. No.920806

Shaft length: 40cm
Stirrer diameter: 6.8cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
For gentle mixing at low and medium speeds

Centrifugal stirrer — Cat. No.920807

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.

Paddle stirrer — Cat. No.920814

Shaft length: 35cm
Stirrer diameter: 6.8cm
Shaft diameter: Ø8mm
Material: PTFE coated
For gentle mixing at low and medium speeds

Centrifugal stirrer — Cat. No.920815

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.

Grand paddle stirrer — Cat. No.920810

Shaft length: 60cm
Stirrer diameter: 10cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Gentle mixing for those stratify easily or sensitive to shear

Grand dissolving stirrer — Cat. No.920811

Shaft length: 60cm
Stirrer diameter: 10cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Breaking down granules in the mixture with strong shear

Anchor stirrer — Cat. No.920819

Shaft length: 40cm
Stirrer diameter: 6cm
Shaft diameter: Ø8mm
Material: 316L stainless steel
Suitable for low speed stirring, medium viscosity and high viscosity materials

Spiral stirrer — Cat. No. 920820

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

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_2O]
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 [HS] series	HS–5 basic 2		1	LCD	140x140mm	380˚C	5L
	HS–5 basic		1	LED	Ø135mm	280˚C	3L
Muiti-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_2O]
	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℃
	Super HP-7	LED	184x184mm	550℃
	HP-5 basic 2	LCD	140x140mm	380℃

**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[H20]	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