Laboratory Stirrer

LT400/500 Series

Max. Speed Range

3,000rpm (400 model)

Wide speed range



*Operational accessories purchased separately



LT series stirrers include LT400A and LT500A with higher torque, LT400B and LT500B with well-balanced speed and torque, and LT400C and LT400D with high speed to support different applications.

- Highly sensitive feedback system keeps the set speed even with changing viscosity during stir
- Maintenance free DC brushless motor
- Digital speed indicator for accurate speed setting and confirmation
- Noise prevention measures for optimal work environment
- More safety-oriented design

Specifications

Model	LT400A	LT400B	LT400C	LT400D	LT500A	LT500B
Viscosity of sample	High	Medium	Medium-low	Low	High	Medium
Speed range	10~300rpm	15~600rpm	25~1,200rpm	60~3,000rpm	60~3,000rpm	25~1,200rpm
Torque	0.9N•m (9.0kgf•cm)	0.5N•m (5.0kgf•cm)	0.3N•m (3.0kgf•cm)	0.1N•m (1.0kgf•cm)	1.0N•m (10.0kgf•cm)	0.6N•m (6.0kgf•cm)
Motor	DC brushless	s motor 30W		DC brushless	motor 70W	
Speed control	Feedback co	Feedback control				
Panel display	Digital speed display, Overload display* ¹ , Torque indicator (20% gradation)* ²					
Chuck	ø8mm drill ch	ø8mm drill chuck				
Safety device	Current limit circuit *3, Thermal protector*4, Drill chuck cover					
External dimensions	W146 x D154 x H165mm					
Power source	AC100V~AC	125V 50/60H	Z			
Power cord	Power supply	Power supply cord with bipolar grounding type plug 2m				
Weight	2.4kg					
Included accessories	Clamp, Safety cover, Chuck handle					
Operational accessories*	Stirring shaft (stainless steel or glass), Propellers (different types and sizes), Stand and rod					

- *1, When load exceeding the maximum torque is applied, tachometer display flashes.
 *2, Torque indicator LED displays the loading status by 5 gradation.
 *3, When load exceeding the maximum torque is applied, current limit circuit automatically controls the current to protect the motor.
- *4, When temperature of the motor exceeds the upper limit temperature, thermal protector shuts off the current flowing to the motor and prevents it from burnout.

Digital Laboratory Stirrers

LR500A/B

1,000rpm

- DC brushless motor considered superior in safety as there are no brushes to cause sparks and no brush replacement required
- Direct-drive system reduces noise and require low maintenance
- Achieves high torque enabling stirring of high viscosity solution
- Digital tachometer for easy speed setting and
- confirmation
- Load on the stirring shaft can be monitored by LED2 display. An overload lamp turns on when exceeding the maximum load, stopping the motor automatically
- Revolution feedback control function can maintain the setting rate despite change of load (especially suitable for high viscosity samples)

Specifications			
Model	LR500A	LR500B	
Speed range *1	34~340rpm	100~1,000rpm	
Max. torque	1.96N•m (20kgf•cm)	0.98N•m (10kgf•cm)	
Display of speed / torque	Digital, 3-digit / Green LED, 2 steps + O	verload display	
Motor (brushless DC)	70W	100W	
Speed control	Speed feedback control		
Safety device	Stops when overloaded		
Stirring function / shaft dia.	Gearless direct drive type / ø10mm		
Power source	AC100 -125V, 50/60Hz, 3A	AC100 -125V, 50/60Hz, 3.5A	
Included accessories	Stirring shaft (Ø10*500mm), 75mm 4-blade propeller, Clamp		
Operational accessories*	Stand and rod		
Optional accessories	Propellers (different types and sizes), Vacuum adapter, Extra long stirring shaft (Ø10*800mm), Glass stirring shaft		





*Operational accessories purchased separately

Accessories Laboratory Stirrer LT400/500 LR500A/B

Adapter for depressurizing stirrer (for LT400/500)

Material	Fluoride resin & Nitrile rubber		
Stirrer shaft	ø8mm		
Vacuum level	6.7Pa (5×10 ⁻² Torr)		
Accessories	Oil Seal (Nitrile rubber) 2pcs.		
laint tuna	T24/40	Product code	231380
Joint type	T29/42	Product code	231381



Additional stirrer support (for LT400/500)

Product code	231382
Size	Max. 3L beaker 2pcs.
Stirrer shaft	ø8mm
Stirrer shaft interval	135mm
Belt	O-ring (VitonP120)
Accessories	Hexagon wrench (2pcs.) Belt (1pc.) Chuck handle (1pc.) Clamp (1pc.) Puller (1pc.)



Adapter for depressurizing stirrer (for LR500)

Fluoride resin & Nitrile rubber		
ø10mm		
6.7Pa (5×10 ⁻² Torr)		
Oil Seal (Nitrile rubber) 2pcs. Stirring propeller for small mouth		
T24/40	Droduot oodo	231097
T29/42	Flounct code	231098
	ø10mm 6.7Pa (5×10 ² To Oil Seal (Nitrile Stirring propelle T24/40	ø10mm 6.7Pa (5×10°Torr) Oil Seal (Nitrile rubber) 2pcs. Stirring propeller for small mo



Additional stirrer support (for LR500)

<u> </u>	<u> </u>
Product code	231096
Size	Max. 3L beaker 2pcs.
Stirrer shaft	ø10mm
Stirrer shaft interval	135mm
Belt	O-ring (VitonP120)
Accessories	Hexagon wrench (2pcs.) Belt (1pc.) Chuck handle (1pc.) Clamp (1pc.) Puller (1pc.)



*Use with propeller less than 60mm

PTFE Stirring shaft and propeller



Product code	Product name	Model	Rod diameter	Length	Propeller	Material
F-4011-01	PTFE coated stirring shaft (with propeller)	LT400/500	ø8mm	450mm	Length 80mm	PTFE upper stainless
F-4012-04	PTFE coated stirring shaft (with propeller)	LT400/500	ø8mm	500mm	Length 100mm	PTFE internal iron core
F-4013-01	PTFE large stirring shaft	LT400/500	ø8mm	600mm	Width 16 x length 80mm	PTFE internal stainless bar
F-4013-02	FIFE large suming small	LR500	ø10mm	800mm	Width 20 x length 120mm	PTFE internal stainless bar
F-4014-04	PTFE propeller type coated stirring shaft	LT400/500	ø8mm	450mm	Dia. ø52mm	PTFE upper stainless





Product code	Product name	Rod diameter	Length
F-4053-01	PTFE coated stirring shaft for LT400/500	ø8mm	350mm
		ø8mm	450mm
F-4053-03		ø8mm	500mm
F-4053-04		ø8mm	600mm

F-4022 and F-4053 must be purchased together

Product code	Product name	Propeller diameter
F-4022-01		40×16mm×3t
F-4022-02		50×19mm×3t
F-4022-03		60×19mm×4t
F-4022-04	PTFE coated half-moon blade	75×20mm×4t
F-4022-05	propeller	90×24mm×4t
F-4022-06	'	100×24mm×4t
F-4022-07		125×30mm×5t
F-4022-08		150×30mm×5t

Propellers



4-blade propeller Standard

Material: Stainless steel SUS 304

Product code	Propeller diameter	Mounting screw
280078	75mm	M5
280079	60mm	M5
LR41AY0003	40mm	M5



Folding propeller

For narrow mouth bottle (up to I.D.18mm)
Material: Stainless steel SUS 304

	Propeller diameter	Mounting screw
LR41AY0006	45mm	M5

Stirring shaft

Product code	Model	Diameter	Material
231384	LT400/500	500mm ø8mm	
LR41231169	LR500	500mm ø10mm	SUS316
LR41AY0002	LR500	800mm ø10mm	





2-blade glass propeller

Use for corrosive or strong acid samples Material: Hard glass

Product code	Model	Propeller Ø	Shaft Diameter
231385	LT400/500	60mm	ø8
2310661018	LR500	60mm	ø10





Round plate turbine

Use for deep container for less air intake during stirring Material: Stainless steel SUS 304

	Propeller diameter	Mounting screw
LR41AY0022	100mm	M5
LR41AY0010	60mm	M5



2 blade propeller

For wide mouth bottle. Use for high viscosity samples. Material: Stainless steel SUS 304

Product code	Propeller diameter	Mounting screw
LR41AY0009	100mm	M5
LR41AY0008	28mm	M5



2 stage round plate turbine Material: Stainless steel SUS 304

Product code	Model	Propeller Ø	Mounting screw
2310630101	LR500	60mm	ø10
231386	LT400/500	60mm	ø8

Max. thickness of container's edge	Max. 35mm	
Stirring shaft's changeable angle	Up to 60°	
Product code	231032	



Stand & Rod Set

Product code	Product name	Dimension	
LR-41-124	Stand & rod set	~7kg	
2310030209		Length 725mm E.D. 25mm	
YSA000194		Width 400mm Depth 420mm	

