

Professional Overhead Stirrer, Realtime Torque | **Pro OS1**



✓ **Powerful and Soft Supports various viscosity**

Belt type gear system with powerful motor realize soft and powerful operation 3 ratio of gear applied products cover wide range of sample

✓ **High Durable**

Chrome-Plated “**Anti-Rust Chuck**”.

✓ **Torque Measuring Function**

Can measure Torque during operation in real time.

✓ **Automatic Reverse operation**

It is easier to wet samples such as fine powder and can be automatically switched using the Program Operation function

✓ **Program Settings and Operation Functions**

It provides operation time, speed, and forward and reverse operation modes with 9 programs and a total of 11 steps, enabling precise and convenient experiments.

✓ **High Fidelity Touch Color LCD Display**

The wide display enable users a convenient checking on current range of set values for the operation of the product.

✓ **High Reliability**

Upgraded in DC Motor power for powerful stirring.

✓ **High Safety**

Over-Heat, Over-Load, Over Current Protection to secure the safety of products and sample

✓ **Telescopic stand provided**

Telescopic stand is provided as standard in Set Models for easy use and accurate setting

✓ **Real Time Monitoring**

Stirring operation information can be monitored using a USB port.
(Option : RS485 Port available for multiple monitoring and control equipment)

Full Range covered Various Models

Pro OS1-10S

Viscosity 50,000mPas 3,000rpm

Pro OS1-15

Viscosity 100,000mPas 1,200rpm

Pro OS1-10

Viscosity 70,000mPas 2,000rpm

Pro OS1-20

Viscosity 150,000mPas 800rpm

Specification & Ordering

Pro Models



Model	Pro OS1-10S /Pro OS1-10S-Set	Pro OS1-10 /Pro OS1-10-Set	Pro OS1-15 /Pro OS1-15-Set	Pro OS1-20 /Pro OS1-20-Set
Stirring Capacity	Max. 15 Lit. (H ₂ O)	Max. 25 Lit. (H ₂ O)	Max. 40 Lit. (H ₂ O)	Max. 60 Lit. (H ₂ O)
Maximum Viscosity	50,000 mPas	70,000 mPas	100,000 mPas	150,000 mPas
Maximum Torque	85 Ncm	130 Ncm	195 Ncm	293 Ncm
Gear Rate	1.5:1	2.0:1	3.0:1	4.5:1
Speed Range	50 to 3,000rpm	30 to 2,000rpm	20 to 1,200rpm	15 to 800rpm
Motor Rating(Input / Output)	200W / 160 W			
Working Direction	Forward & Reverse (Can change automatically by program operation)			
Timer	99hr 59min			
Display	High Fidelity Touch Color 3.5inch LCD Display			
Controller	Digital PID Feedback Control High Performance MCU			
Max. Impeller Shaft Diameter	10 mm			
Program Operation	9 Program, 11 Steps			
Others - Special function	Torque Measuring Function in real time Real Time Monitoring by USB port (Option : RS485 Port available for multiple monitoring and control equipment)			
Permissible Temp. & Humidity	0 ~ 40°C, 80%			
Safety Device	Overload & Heat Protector for Motor Error Code Display			
Material	ABS and Aluminum			
Extension Arm Size	Ø12.7 X L245mm			
Power Consumption	280 W			
Dimensions (w x d x h) & Net Weight	85 X 200 X 250mm, 4.0 Kg / 10.5Kg			
Packing Size (w x d x h) & Gross Weight	310 X 365 X 135mm, 4.7Kg / 290 X 800 X 180mm, 12.3Kg			
Power Supply	1 Phase, AC 100 - 240~, 50/60Hz			

Ordering No.	Model Name	Description
LT.OS03040	Pro OS1-10S	Professional Overhead Stirrer, Digital, Viscosity 50,000, 3,000rpm, 230V
LT.OS03041	Pro OS1-10S-Set	Professional Overhead Stirrer, Digital, Viscosity 50,000, 3,000rpm, 120V
LT.OS03042	Pro OS1-10S-Set	Professional OS1-10S Package, with OSIP010, OSHC010, OSSR030, 230V
LT.OS03043	Pro OS1-10S-Set	Professional OS1-10S Package, with OSIP010, OSHC010, OSSR030, 120V
LT.OS03010	Pro OS1-10	Professional Overhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 230V
LT.OS03011	Pro OS1-10	Professional Overhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 120V
LT.OS03012	Pro OS1-10-Set	Professional OS1-10 Package, with OSIP010, OSHC010, OSSR030, 230V
LT.OS03013	Pro OS1-10-Set	Professional OS1-10 Package, with OSIP010, OSHC010, OSSR030, 120V
LT.OS03020	Pro OS1-15	Professional Overhead Stirrer, Digital, Viscosity 100,000, 1,200rpm, 230V
LT.OS03021	Pro OS1-15	Professional Overhead Stirrer, Digital, Viscosity 100,000, 1,200rpm, 120V
LT.OS03022	Pro OS1-15-Set	Professional OS1-15 Package, with OSIP020, OSHC010, OSSR030, 230V
LT.OS03023	Pro OS1-15-Set	Professional OS1-15 Package, with OSIP020, OSHC010, OSSR030, 120V
LT.OS03030	Pro OS1-20	Professional Overhead Stirrer, Digital, Viscosity 150,000, 800rpm, 230V
LT.OS03031	Pro OS1-20	Professional Overhead Stirrer, Digital, Viscosity 150,000, 800rpm, 120V
LT.OS03032	Pro OS1-20-Set	Professional OS1-20 Package, with OSIP030, OSHC010, OSSR030, 230V
LT.OS03033	Pro OS1-20-Set	Professional OS1-20 Package, with OSIP030, OSHC010, OSSR030, 120V

Accessories



OSSR010



OSHC010



OSSR030
(* Standard Component
in Digital Set Models.)

Ordering No.	Model Name	Description
LT.OS00001	OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod(80cm height) and Silicon Pad
LT.OS00003	OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod
LT.OS00004	OSSR030	Telescopic Stand for Overhead Stirrer & Homogenizer. (42~64cm height adjustable)

Impellers, Stirring Tools with Exchangeable Blades for Overhead Stirrers

Ordering No.	Model Name	Description
LT.OS00010	OSIP010	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø50 mm blade
LT.OS00011	OSIP011	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00020	OSIP020	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00021	OSIP021	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade

Ordering No.	Model Name	Description
LT.OS00030	OSIP030	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00031	OSIP031	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø110 mm blade
LT.OS00040	OSIP040	Centrifugal, 2 x bladed, Ø8 L500 mm rod, Ø100 mm blade
LT.OS00050	OSIP050	Centrifugal, Teflon-coated, 2xbladed, Ø8 L500mm rod, Ø90mm blade
LT.OS00051	OSIP051	Centrifugal, Teflon-coated, 2xbladed, Ø8 L650mm rod, Ø120mm blade
LT.OS00060	OSIP060	Anchor, 2 x bladed, Ø8 L500mm rod, Ø70 mm blade
LT.OS00061	OSIP061	Anchor, 2 x bladed, Ø8 L650mm rod, Ø90 mm blade
LT.OS00111	OSIP111	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø60 mm blade
LT.OS00121	OSIP121	Propeller, 4 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00130	OSIP130	Diamond, 4 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00131	OSIP131	Diamond, 4 x bladed, Ø10 L650 mm rod, Ø110 mm blade
LT.OS00161	OSIP161	Anchor, 2 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00162	OSIP162	Anchor, 2 x bladed, Ø10 L800 mm rod, Ø140 mm blade