Laboratory Overhead Stirrer - Digital Mixer - 30-2200 rpm - 40 L Capacity

Model **MSOHS-100SWISS** | Brand **Master Science**





The Master Science Laboratory Overhead Stirrer is a digital mixer for liquid-liquid and solid-liquid samples, including medium and high viscosity materials up to 50000 mPa·s. A brushless DC motor drives the stirring shaft from 30 to 2200 rpm and holds the set speed as the sample thickens.

KEY HIGHLIGHTS

- Steady speed in thick samples
- Long, safe runs
- Built-in protection
- Faster setup
- Accurate timing

AT A GLANCE

30 to 2200 rpm SPEED RANGE	**40 L** MAXIMUM MIXING VOLUME (WATER)
120 W / 100 W INPUT / OUTPUT POWER	**1 to 9999 min** TIMER

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The large LCD shows speed and time, and a through-hole in the chuck lets you change the shaft position without moving the whole unit on its stand.

Key Benefits

Steady speed in thick samples
torque adjusts automatically as viscosity changes.

Long, safe runs
the brushless motor of the Master Science Laboratory Overhead Stirrer suits continuous operation.

Built-in protection
overload or a short circuit cuts power and shows an alarm.

Faster setup
the shaft passes through the chuck, so instrument height stays fixed.

Accurate timing
set runs from 1 minute to almost 7 days.

For smaller volumes, see the Master Science laboratory magnetic stirrer.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSOHS-100SWISS
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Maximum Mixing Volume (water)	40 L
Speed Range	**30 to 2200 rpm**
Speed Accuracy	**±1 rpm**
Speed Adjustment	Coarse and fine
Timer	1 to 9999 min
Maximum Torque	60 N·cm
Maximum Viscosity	50000 mPa·s
Motor	Brushless DC
Overload and Motor Protection	Fault shown on display, automatic stop
Safety	Chuck protective cover, anti-slip pad
Power Supply	100 to 240 V, 50/60 Hz

DISPLAY & DATA

Speed Display	LCD
Input / Output Power	120 W / 100 W

ENVIRONMENT

Protection Class	IP42
Ambient Conditions	5 to 40 °C, 80 % RH

DIMENSIONS & WEIGHT

Instrument Dimensions	315 × 200 × 780 mm
Net / Gross Weight (instrument)	4.7 kg / 6.5 kg
Net / Gross Weight (set)	7.5 kg / 12.5 kg
Readjusting height for each vessel	the through-chuck design avoids it.

COMMON LABORATORY PROBLEMS AND HOW THIS STIRRER HELPS

Common Laboratory Problems and How This Stirrer Helps	How the Master Science Laboratory Overhead Stirrer handles typical mixing issues:
Magnetic stirrers stall in thick samples	overhead drive with 60 N·cm torque keeps mixing.
Speed drops as viscosity rises	torque compensation keeps rpm stable.
Motor burnout	automatic stop on overload.

Applications

Typical uses of the Master Science Laboratory Overhead Stirrer: Chemical and petrochemical research Pharmaceutical formulation Cosmetic creams and emulsions Food and biological samples Polymer and resin mixing

Drive

- Brushless DC motor
- 30 to 2200 rpm with ±1 rpm accuracy
- 60 N·cm maximum torque

Control

- LCD speed and time display
- Coarse and fine speed setting
- Working time adjustable during the run

Safety

- Overload and motor protection with alarm
- Chuck cover and anti-slip pad

Standard Accessories Included

- Overhead stirrer unit

Optional Accessories

- Stirring propellers in various designs
- Support stands and square lifting clamp