# Benchtop Shaking Incubator 50-70 L, 20-300 rpm, RT+5 or 4 to 65°C, UV Sterilization, Soft Start

Model **MSICB-S50YSWISS,MSICB-S70YSWISS,MSICB-S70LYSWISS** | Brand **Master Science**





The Master Science Benchtop Shaking Incubator combines a temperature-controlled chamber with an orbital shaking platform in one compact unit. It suits flask cultures of bacteria, yeast and cells, as well as hybridization and other reactions that need steady mixing at a set temperature.

KEY HIGHLIGHTS

- Two jobs in one unit
- Cooling option
- Safe for liquids
- Resumes after outages

AT A GLANCE

| | |
|---|---|
| **RT+5 to 65°C (S50Y, S70Y); 4 to 65°C (S70LY)** TEMPERATURE RANGE | **50 / 70 / 70 L** CAPACITY |
| **±1 rpm** SPEED ACCURACY | **0.1°C** TEMPERATURE RESOLUTION |

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

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## Overview

The platform runs from 20 to 300 rpm with ±1 rpm accuracy on a 20 mm orbit, starting gently to avoid splashing, and locks automatically if speed goes out of control. Two models heat from 5°C above ambient to 65°C; the LY model adds cooling down to 4°C. UV sterilization, power-failure recovery and a waterproof chamber floor are standard.

> For CO2-controlled suspension cultures, see our three-layer CO2 shaking incubator, a larger option than the Master Science Benchtop Shaking Incubator.

> Using a separate shaker inside an incubator wastes space and gives uneven results. The Master Science Benchtop Shaking Incubator addresses:

## Overview

- 20-300 rpm, ±1 rpm accuracy
- Soft-start design
- Automatic lock if speed is out of control

## Key Benefits

**Two jobs in one unit**
The Master Science Benchtop Shaking Incubator heats and shakes in a single benchtop footprint.

**Cooling option**
The LY model works down to 4°C for temperature-sensitive cultures.

**Safe for liquids**
Soft start limits splashing; the chamber floor is waterproof.

**Resumes after outages**
Power-failure recovery restarts the run automatically.

## Technical Specifications

### GENERAL

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSICB-S50YSWISS,MSICB-S70YSWISS,MSICB-S70LYSWISS |
| SKU | MSICB-S50YSWISS,MSICB-S70YSWISS,MSICB-S70LYSWISS |
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| Capacity | **50 / 70 / 70 L** |
| Circulation | Forced convection |
| Control | PID microcomputer |
| Shaking speed | 20-300 rpm |
| Speed accuracy | **±1 rpm** |
| Orbit (amplitude) | Ø20 mm standard |
| Temperature range | **RT+5 to 65°C (S50Y, S70Y); 4 to 65°C (S70LY)** |
| Temperature resolution | 0.1°C |
| Temperature uniformity | ±0.5°C at 37°C |
| Program control | Optional (S50Y); standard (S70Y, S70LY) |
| General | Max. capacity, stainless clamps: S50Y: 250 ml ×12, 500 ml ×8 or 1000 ml ×6; 70 L models: 250 ml ×15, 500 ml ×12 or 1000 ml ×6 |
| Display | LCD |
| Operating environment | Ambient below 25°C |

### DIMENSIONS & WEIGHT

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|---|---|
| Platform size (W×D) | 300 × 410 mm (S50Y); 340 × 490 mm (70 L models) |
| Internal dimensions (W×D×H) | 475 × 350 × 305 mm (S50Y); 535 × 390 × 330 mm (70 L models) |
| External dimensions (W×D×H) | 520 × 670 × 525 / 580 × 720 × 550 / 585 × 860 × 550 mm |

### POWER

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|---|---|
| Power supply | 220 V, 50 Hz |
| Runs lost to power cuts | Automatic recovery restarts the program. |

## CULTURE PROBLEMS THE MASTER SCIENCE BENCHTOP SHAKING INCUBATOR SOLVES

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|---|---|
| Two machines on the bench | Heating and shaking share one compact unit. |
| Splashing at start-up | Soft start brings speed up gradually. |
| Cultures overheating in warm rooms | The LY model adds active cooling. |

## Applications

**The Master Science Benchtop Shaking Incubator is used for**
Bacterial and yeast flask cultures Fermentation studies Hybridization and biochemical reactions Cell and tissue research Enzyme engineering experiments

## Climate

- PID microcomputer control
- Heating to 65°C; cooling to 4°C on LY model
- ±0.5°C uniformity at 37°C

## Safety and convenience

- UV sterilization
- Power-failure recovery
- Waterproof chamber floor
- LCD display; optional RS485 and USB printer interface

## Standard Accessories Included

- Benchtop shaking incubator

## Optional Accessories

- RS485 interface
- USB printer interface
- Program control (S50Y)
- Stainless steel flask clamps