# High Speed Centrifuge - Benchtop Laboratory Centrifuge - 21000 rpm - 30910 ×g

Model **MSCFG-21SYSWISS** | Brand **Master Science**





The Master Science High Speed Centrifuge reaches 21000 rpm and 30910 ×g, and with a swing-out rotor it spins up to 4 × 800 mL. A wide choice of angle and swing rotors makes it suitable for bacteria, protein precipitation, nucleic acid extraction, subcellular fractions and clinical blood samples.

KEY HIGHLIGHTS

- One centrifuge, many tube sizes
- No motor upkeep
- Fast rotor change
- Safe operation
- Repeatable runs

AT A GLANCE

| | |
|---|---|
| **21000 rpm**<br>MAXIMUM SPEED | **4 × 800 mL (swing rotor)**<br>MAXIMUM CAPACITY |
| **AC 110 V or 220 V, 50/60 Hz**<br>POWER SUPPLY | **1 s to 99 h 59 min 59 s**<br>TIMER |

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

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## Overview

A high-torque brushless variable-frequency motor needs no maintenance and produces no carbon dust, while a touch screen shows set and actual speed, RCF, time, ramp rates, rotor number and lid status.

## Key Benefits

**One centrifuge, many tube sizes**
the Master Science High Speed Centrifuge accepts microtubes to 800 mL bottles.

**No motor upkeep**
brushless drive.

**Fast rotor change**
spring cone sleeve, non-directional loading.

**Safe operation**
electric door lock with imbalance and over-speed checks.

**Repeatable runs**
100 programs with selectable ramps.

Before centrifuging, cells and tissue are often grown in a Master Science CO2 incubator.

## Technical Specifications

| GENERAL | |
|---|---|
| Brand | Master Science |
| Model Number | MSCFG-21SYSWISS |
| SKU | MSCFG-21SYSWISS |
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| Model Number | MSCFG-21SYSWISS |
| SKU | MSCFG-21SYSWISS |
| Maximum Speed | 21000 rpm |
| Maximum RCF | 30910 ×g |
| Maximum Capacity | **4 × 800 mL (swing rotor)** |
| Speed Accuracy | **±10 rpm** |
| Timer | 1 s to 99 h 59 min 59 s |
| Programs | 100 stored |
| Acceleration / Deceleration | 9 / 10 rates |
| Motor | Brushless variable-frequency, high torque |
| Door | Automatic electric lock, emergency release, hydraulic lid support |
| Protection | Door lock, over-speed and imbalance self-check |
| Chamber | Stainless steel; all-steel body, three-stage vibration damping |
| Noise | ≤ 68 dBA |
| Example Rotors | 12 × 1.5/2 mL at 21000 rpm (30910 ×g); 6 × 50 mL at 13000 rpm; 6 × 250 mL at 7000 rpm; 4 × 800 mL swing at 4000 rpm; 4 × 4 × 96-well plates |
| Display | High-definition touch screen |
| Power Supply | AC 110 V or 220 V, 50/60 Hz |

| DIMENSIONS & WEIGHT | |
|---|---|
| External Dimensions | 680 × 500 × 385 mm |
| Net / Gross Weight | 67 kg / 90 kg |

| COMMON LABORATORY PROBLEMS AND HOW THIS CENTRIFUGE HELPS | |
|---|---|
| Common Laboratory Problems and How This Centrifuge Helps | How the Master Science High Speed Centrifuge solves separation problems: |
| Need for several centrifuges | one unit with many rotors. |
| Carbon brush dust and wear | brushless motor. |
| Imbalance accidents | self-check and automatic protection. |
| Heavy lid | hydraulic support rod. |

## Applications

**The Master Science High Speed Centrifuge is used for**
Bacteria harvesting Protein precipitation Nucleic acid extraction Subcellular fractionation Clinical and blood sample processing

## Performance

- 21000 rpm, 30910 ×g
- ±10 rpm accuracy
- Up to 4 × 800 mL

## Control

- Touch screen with live values
- 100 programs
- 9 acceleration and 10 deceleration rates

## Safety and Build

- Electric door lock with emergency opening
- All-steel body, stainless chamber
- Three-stage vibration damping

## Optional Accessories

- Angle rotors from 40 × 0.5 mL to 6 × 250 mL
- Swing rotors for blood tubes, 50 mL tubes and 96-well plates
- PTFE adapters
- Biosafety covers for swing rotors
- Automatic rotor recognition