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

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Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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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
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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