

# MSC-3000 and MSC-6000, Multi-Spins

DESCRIPTION

Centrifuge/vortex Multi-Spins **MSC-3000** and **MSC-6000** are products of many years evolution of Spin-Mix-Spin technology that is intended for collecting micro volumes of reagents on the microtube's bottom (first centrifugation spin), following mixing (mix) and collecting the reagents again from the walls and cap of the microtube (second spin). We named this repetitive algorithm of operation that is aimed at reducing the mistakes during sample preparation for PCR analysis a "sms-algorithm".

Multi-Spin is a fully automatic device for reproducing sms-algorithm for 12 tubes at one time, thus saving time considerably. A must-have instrument for PCR and DNA analyses laboratory.

Multi Spin is four devices combined in one:




1. Centrifuge — Maximum RCF:  
**MSC-3000:** up to  $800 \times g$   
**MSC-6000:** up to  $2,350 \times g$
2. Vortex (3 mixing modes — **soft, medium, hard**; regulated time; Vortexing regulation timer 1–20 sec)
3. Centrifuge/Vortex;
4. SMS-cycler for realization of the "sms-algorithm".



Both product video is available on the website

### SAVING TIME WITH MULTI-SPIN

Multi-Spin allows considerable time saving compared to Combi-Spin by automatically performing cycling program of sample mixing and spinning according to the set spin-mix-spin cycle for 12 microtubes simultaneously.

			
	<b>FVL-2400N</b>	<b>MSC-3000</b>	<b>MSC-6000</b>
Speed control max.	2,800 rpm	3,500 rpm	6,000 rpm
RCF max.	$500 \times g$	$800 \times g$	$2,350 \times g$
Number of tubes vortexing	1 individually	12 simultaneously	
Time for completing "spin-mix-spin" cycle:			
for 2 microtubes	60 sec	25 sec	15 sec
for 12 microtubes	5–6 min	90 sec	60 sec
for 100 microtubes	60 min	15 min	10 min
Unit price ratio	1 ×	1.5 ×	1.6 ×

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	MSC-3000	MSC-6000
Speed regulation range (increment 100 rpm)	1,000–3,500 rpm	1,000–6,000 rpm
RCF max.	800×g	2,350×g
Spin timer	1 sec–99 min	1 sec–30 min
Vortexing intensity	Soft, medium, hard	
Vortexing time	0–20 sec (increment 1 sec)	
SMS–cycle regulation	1–999 cycles	
Display	LCD, 2×16 signs	
Safety	Autostop at open lid	Lid lock
Overall dimensions (W×D×H)	190×235×125 mm	
Weight	2.1 kg	2.5 kg
Input current/power consumption	12 V, 11 W (0.9 A)	24 V, 24 W (1 A)
External power supply	Input AC 100–240 V 50/60 Hz; Output DC 12 V	Input AC 100–240 V 50/60 Hz; Output DC 24 V

Rotor R-1.5



## ORDERING INFORMATION:

Cat. number

**MSC-3000** with standard rotors R-1.5, R-0.5/0.2

BS-010205-AAN

**MSC-6000** with standard rotors R-1.5, R-0.5/0.2

BS-010211-AAL

Optional rotors: see table below

Optional rotors:	Capacity	Type	Cat. Number	
<b>1 R-0.5/0.2</b>	12×0.5 ml and 12×0.2 ml microtubes	24	Standard	BS-010205-BK
<b>2 R-1.5</b>	12×1.5 ml microtubes	12	Standard	BS-010205-AK
<b>3 R-2/0.5</b>	8×2.0 ml and 8×0.5 ml microtubes	16	Optional	BS-010205-CK
<b>4 R-2/0.5/0.2</b>	6×2.0 ml, 6×0.5 ml and 6×0.2 ml microtubes	18	Optional	BS-010205-DK
<b>5 SR-16</b>	Two 8-section strips for 0.2 ml microtubes	16	Optional	BS-010202-AK
<b>6 SR-32*</b>	Four 8-section strips for 0.2 ml microtubes	32	Optional	BS-010205-FK

\* — Not compatible with Multi-Spins produced before 2015

**1** R-0.5/0.2**2** R-1.5**3** R-2/0.5**4** R-2/0.5/0.2**5** SR-16**6** SR-32