

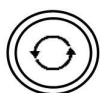
Your Partner in Laboratory Centrifuges

MSE



Harrier & Harrier R

Universal benchtop centrifuge



18 000 RPM



30 065 x g



4 x 250 ml



-20°C to +40°C
(refrigerated version)

Bench top centrifuge range



Mastering centrifugation
for over 85 years

FEATURES

- Precooling functions (Harrier R)
- LCD display and modern programming system
- Smooth and easy clean surface
- Continuous operation mode
- Simplified and exhaustive display (pre set and current values)
- 100 programs : programming of multi-segment
- PULSE and HOLD mode
- Delayed start function
- Changing of parameters during run
- 10 languages (EN, FR, ES, IT, PT, DE, RU, SE, PL)
- Selected functions blocking password protection
- Stainless steel chamber
- Wide range of rotors with auto identification



SPECIFIC ROTORS

Microplates (MTP) & deepwell plates (DWP)

Reference	Description	RPM	RCF	Capacity
MSE2336C	Microtiter swing-out rotor (max 8 MTP or 2 DWP) (2 hangers included)	4 500	2 604	8 MTP or 2 DWP
MSE2502C	Microtiter swing-out rotor (max 6 MTP or 2 DWP) (2 hangers included)	3 000	1 036	6 MTP or 2 DWP

Cytospin

Reference	Description	RPM	RCF	Capacity
MSE2503C	Cyto rotor (with 4 hangers MSE3657)	2 500	769	4
MSE6661	Cyto-container type 610 to the cyto-rotor complete ready to use (100)	-	-	-

Hematocrites

Reference	Description	RPM	RCF	Capacity
MSE2351	Hematocrite rotor for 24 capillaries 75 mm	13 500	16 816	24 X 75 mm
MSE6215	Hematocrite reader	-	-	-



ANGLE ROTOR SYSTEMS

MSE Cat. No	Description	Max. RPM	Max. RCF
MSE1636	Angle rotor 12 x 8 x 0.2 ml for PCR strips with Hermetically Sealed Lid (angle 45°)	14 000	20 817
MSE1513	Angle rotor 36 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	18 000	30 065
MSE1250	Angle rotor 12 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	18 000	24 270
MSE1512*	Angle rotor 24 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)		30 065
MSE1811	Angle rotor 24 x 2 ml for filter tubes/spin columns with Hermetically Sealed Lid (angle 45°)	15 000	21 382
MSE1995	Angle rotor 12 x 5 ml Eppendorf tubes with snap cap closing (angle 45°)	15 000	21 382
MSE1791C*	Angle rotor 12 x 5-15ml (angle 30°) with bucket MSE3131. pads reducing depth MSE4866 and carriers reducing diameter MSE4133 included	5 500	4 058
MSE1796C	Angle rotor 24 x 5-15ml (angle 30°) with bucket MSE3131. pads reducing depth MSE4866 and carriers reducing diameter MSE4133 included	5 000	3 354
MSE1552C	Angle rotor 30 x 5-15 ml (angle 30°) with bucket MSE3131. pads reducing depth MSE4866 and carriers reducing diameter MSE4133 included	5 200	3 960
MSE1507C	Angle rotor 36 x 5-15 ml (angle 30°) with bucket MSE3131. pads reducing depth MSE4866 and carriers reducing diameter MSE4133	5 000	4 109
MSE1518	Angle rotor 12 x 10 ml (angle 30°) with Hermetically Sealed Lid	12 000	15 133
MSE1510	Angle rotor 12 x 10 ml (angle 30°) with Hermetically Sealed Lid	15 000	21 382
MSE1517	Angle rotor 10 x 15 ml for Falcon tubes with Hermetically Sealed Lid (angle 30°)	10 000	10 733
MSE1794C	Angle rotor 12 x 30/25 ml (angle 30°) with bucket MSE3380 included	5 500	3 889
MSE1509	Angle rotor 6 x 30 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	15 000	19 621
MSE1324	Angle rotor 8 x 30 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	12 000	14 006
MSE1520	Angle rotor 6 x 50 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	12 000	14 489
MSE1797C	Angle rotor 6 x 50 ml for Falcon tubes (angle 30°) with bucket MSE3327 included	6 000	4 427
MSE1508	Angle rotor 6 x 50 ml for Falcon tubes with bucket and Hermetically Sealed Lid (angle 30°)	10 000	10 733
MSE1264C/A*	Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) with bucket MSE3329 & PC cap MSE 7202 included	5 500	4 227
MSE1264C/B	Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) with bucket MSE3327 included	5 500	4 227
MSE1262C/A	Angle rotor 10 x 50 ml for Falcon tubes (angle 30°) with bucket & PC cap included	5 500	4 498
MSE1262C/B	Angle rotor 10 x 50 ml for Falcon tubes (angle 30°) with bucket MSE3327 included	5 500	4 498
MSE1637C	Angle rotor 6 x 85 ml for Nalgene tubes (angle 35°) with bucket MSE3638 included	7 000	6 081
MSE1769C	Angle rotor 4 x 100 ml (angle 30°) with bucket MSE3770 included	6 300	5 014
MSE1554C	Angle rotor 8 x BABCOCK bottle (GERBER 5406) (angle 40°) with bucket MSE3555 and Adaptor MSE4556 included	2 000	733



MSE1264*
(without buckets)



MSE1512*



MSE1791C*

ADAPTORS FOR ANGLE ROTORS

Adaptors for Microtubes

Reference	Adaptor by type/capacity of tube	Compatible rotors			
		MSE1811	MSE1250	MSE1512	MSE1513
MSE4135	Adaptor without bottom for 0.5 ml tube	X	X	X	X
MSE4177	Adaptor for conical-bottom 0.4 ml tube	X	X	X	X
MSE4184	Adaptor for round-bottom 0.2 ml tube	X	X	X	X

Adaptors for tubes from 5 to 100 ml

Adaptors for tubes from 5 to 100 ml		Compatible rotors											
Reference	Adaptor by type/capacity of tube	MSE1517	MSE1794C	MSE1520	MSE1508	MSE1264C/A	MSE1262C/A	MSE1797C	MSE1264C/B	MSE1262C/B	MSE1637C	MSE1769C	
MSE4098	Adaptor for round-bottom 5 ml tube for angle rotor MSE1517	X											
MSE4919	Adaptor for 5 ml Eppendorf tube with snap or screw cap	X											
MSE4919C/A	Adaptor for 5 ml Eppendorf snap cap or screw cap tube (Used with MSE4140)				X			X	X	X			
MSE4919C/B	Adaptor used with MSE4140 Adaptor for 5 ml Eppendorf snap cap					X	X	X	X	X			
MSE4094	Adaptor for round-bottom 5 ml tube				X	X	X	X	X	X			
MSE4087	Adaptor for round-bottom 5 ml large tube			X	X			X	X	X			
MSE4306	Adaptor without bottom for 7 ml tube		X								X		
MSE4124	Adaptor for round-bottom 10 ml and S-Monovette 7.5 ml tube				X	X	X	X	X	X			
MSE4086	Adaptor for round-bottom 15 ml Nalgene tube			X		X	X	X	X	X			
MSE4307	Round Adaptor without bottom for 15 ml Nalgene tube	X										X	
MSE4140	Adaptor for 15 ml conical tube				X	X	X	X	X	X			
MSE4122	Adaptor for round-bottom 28/30 ml Nalgene tube				X	X	X	X	X	X			
MSE4299	Adaptor without bottom for 28 ml Nalgene tube					X	X	X	X	X			
MSE4075	Adaptor for 15 ml conical tube											X	
MSE4275	Adaptor for round-bottom or skirted, conical-bottom 30 ml Sterilin tube											X	
MSE4241C	Adaptor for conical-bottom 30/25 ml tube with rubber pad											X	
MSE4243C	Adaptor for round-bottom or conical-bottom 50 ml tube with rubber pad											X	
MSE4277	Adaptor for skirted, conical-bottom 50 ml Greiner tube											X	
MSE4240C	Adaptor for 50 ml Falcon tube or Nalgene tube with rubber pad											X	
MSE4247	PP pad under 100 ml PP tube											X	

SWING OUT ROTOR SYSTEMS

MSE2403 : Swing out rotor 4 x 250 ml RPM 4800 - RCF 4405

Ref.	Description Bucket / Hanger	Dim.
MSE3403	Bucker 250ml 83 x 88 mm	83x88 mm
MSE3404C	Bucker 250ml 83 x 93 mm 5 (with lid MSE7404)	83x93 mm

Adaptors for buckets

Reference	Adaptor by type/capacity of tube	Dim.	Bucket compatibility	
			MSE3403	MSE3404C
MSE4369	Adaptor for 26 x 1.6:5 ml S-Monovette tubes	26 x 12.2 mm	X	X
MSE4365	Adaptor for blood collection 19 x 1.6+4 ml tubes	19 x 13.1 mm	X	X
MSE4376	Adaptor for blood collection 17 x 1.6+7 ml tubes	17 x 13.1 mm	X	X
MSE4373	Adaptor for round-bottom 18 x 2/1.5 ml Eppendorf tubes	18 x 11 mm	X	X
MSE4364*	Adaptor for blood collection 19 x 4+7 ml tubes	19 x 13.1 mm	X	X
MSE4366C	Adaptor for 8 x 5 ml Eppendorf snap cap closing or screw cap closing tube	8 x 16.9 mm	X	X
MSE4368C	Adaptor for 7 x 5 ml Eppendorf snap cap closing or screw cap closing tube	7 x 16.9 mm		
MSE4367	Adaptor for blood collection 15 x 7+11 ml tubes	15 x 17 mm	X	X
MSE4371	Adaptor for round-bottom 12 x 15/10 ml Nalgene tubes	12 x 17 mm	X	X
MSE4366	Adaptor for 8 x 15 ml Falcon tubes	8 x 16.9 mm	X	
MSE4362	Adaptor for 15-ml conical tube	2 x 30 mm	X	X
MSE4368	Adaptor for skirted. conical-bottom 2 x 50 ml Greiner tubes	7 x 16.9 mm	X	X
MSE4101	Adaptor for 4 x 50 ml conical tubes	4 x 30 mm	X	
MSE4102	Adaptor for 3 x 50ml conical tubes	3 x 30 mm	X	X
MSE4370*	Adaptor for skirted conical-bottom 3x30 ml tubes or round-bottom 7 x 28/30 ml	7 x 26 mm	X	X
MSE4372	Adaptor for round-bottom 4 x 50 ml Nalgene tubes	4 x 30 mm	X	X
MSE4361	Adaptor for 100 ml tube	1 x 45 mm	X	X
MSE4363	Adaptor for round-bottom glass 3 x 50 ml tubes	3 x 36 mm	X	X
MSE4374	Adaptor for 200 ml flat-bottom bottle	1 x 57 mm	X	X
MSE4301C/A	Pad (PP) under 250 ml flat-bottom bottle (with MSE4226)	1 x 61.5 mm	X	X
MSE4301C/B	Pad (PP) under 250 ml flat-bottom bottle (with MSE4068)	1 x 61.5 mm	X	X

MSE2633C : Swing out rotor 4 x 40 ml

RPM 3 200 - RCF 1 809

Reference	Adaptor by type/capacity of tube	Dim.
MSE4237	Adaptor for blood collection 4 x 1 .. 6+7 ml tubes	4 x 13.1 mm
MSE4238	Adaptor for blood collection 4 x 7+11 ml tubes	4 x 16.5 mm
MSE4635	Adaptor for round-bottom 4 x 8 ml CPT tubes	4 x 16 mm

MSE2487 : Swing out rotor 4 x 200 ml

RPM 3 200 - RCF 1 809

Ref.	Description Bucket / Hanger	Dim.
MSE3093	Bucket 2 x 50 ml for Falcon tube	30 x 120 mm
MSE3095	Hanger 4 x 5-15ml (angle 30°) with bucket MSE3131, pads reducing depth MSE4866 and carriers reducing diameter MSE4133 included	17 x 100/120 mm
MSE3488	Bucket 200 ml	57x 100 mm
MSE3489C	Bucket 200 ml with PC lid included	57x 100 mm
MSE3644	Bucket 100 ml 45 x 94 mm	45 x 94 mm



MSE2487 : Swing out rotor 4 x 200 ml

RPM 3 200 - RCF 1 809

Adaptors for buckets

Référence	Adaptateur par type/capacité de tube	Godets compatibles				
		MSE3093	MSE3095	MSE3488	MSE3489C	MSE3644
MSE4498	Adaptor for round-bottom 12 x 1.4 ml S-Monovette® tubes			X	X	
MSE4160	Adaptor short for blood collection 7 x 1.6/7 ml tubes			X	X	
MSE4157	Adaptor for blood collection 7 x 1.67 ml tubes			X	X	
MSE4237	Adaptator for blood collection 4 x 1.6/7 ml tubes					X
MSE4501	Adaptor for round-bottom 8 x 2/1.5 ml Eppendorf® tubes			X	X	
MSE4245	Adaptor for round-bottom 5 x 1.5/2 ml Eppendorf tubes					X
MSE4094	Adaptor for round-bottom 5 ml tube	X	X			
MSE4497	Adaptor for round-bottom 12 x 5 ml tubes			X	X	
MSE4232	Adaptator for round-bottom 5 x 7/5 ml tubes					X
MSE4492	Adaptor for round-bottom 12 x 7 ml tube			X	X	
MSE4238	Adaptor for blood collection 4 x 7/11 ml tubes					X
MSE4500	Adaptor for blood collection 4 x 7/11 ml tubes			X	X	
MSE4159	Adaptor short for blood collection 7 x 7/11 ml tubes			X	X	
MSE4161	Adaptor for blood collection 7 x 7/11 ml tubes			X	X	
MSE4162	Adaptor for round-bottom 5 x 10 ml Nalgene® tubes			X	X	
MSE4075	Adaptor for 15 ml Falcon tube					X
MSE4140*	Adaptor for 15 ml conical tube	X	X			
MSE4241C	Adaptor for conical-bottom 30/25 ml tube with rubber pad MSE4239					X
MSE4243C	Adaptor for round-bottom or conical-bottom 50 ml tube with rubber pad					X
MSE4123	Adaptor for round-bottom 50 ml tube			X		
MSE4240C	Adaptor for 50 ml Falcon tube or Nalgene tube with rubber pad MSE4239					X
MSE4164	Adaptor for 50 ml Falcon tube			X		
MSE4277	Adaptor for skirted, conical-bottom 50 ml Greiner tube					X
MSE4248	Adaptor for round-bottom 100 ml tube			X		
MSE4247	PP pad under 100 ml PP tube					X



MSE4370*



MSE4140*



MSE4364*

BENCH TOP CENTRIFUGE RANGE

Reliable benchtop centrifuges designed to deliver consistent results in demanding laboratory environments. Highly versatile with a wide range of rotors and adapters they cover all capacities of tubes and centrifugation vessels available on the market. Our benchtop centrifuge range offer high centrifugation parameters as well as high precision.

HAWK & HAWK R

- Programming up to 99h, 99mn and 99s
- 100 programs / 10 deceleration and acceleration rates
- Short cycle and continuous operation mode
- Automatic rotor recognition
- Wide choice of angular, swing out rotors and adapters
- Pre-cooling function to start work at target temperature (Hawk R)



4 x 100 ml

Swing rotor



4 000

2 504

Angular rotor



18 000

24 270

Blood tubes



x 40



x 48

50 ml



x 10

15 ml



x 30

Hawk R



-20°C
to +40°C

HARRIER & HARRIER R

- Programming up to 99h, 99mn and 99s
- 100 programs / 10 deceleration and acceleration rates
- Short cycle and continuous operation mode
- Delayed start function
- Automatic rotor recognition
- Wide choice of angular, swing out rotors and adapters
- Pre-cooling function to start work at target temperature (Harrier R)



4 x 250 ml

Swing rotor



5 200

4 724

Angular rotor



18 000

30 065

Blood tubes



x 72



x 76

50 ml



x 16

15 ml



x 36

Harrier R



-20°C
to +40°C

FALCON & FALCON R (high capacity)

- Programming up to 99h, 99mn and 99s
- 49 programs / 10 deceleration and acceleration ramps
- Automatic rotor recognition
- Wide choice of rotors and adapters



4 x 785 ml

Swing out rotor

Falcon



3 600

2 958

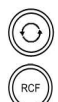
Falcon R



4 700

6 385

Angular rotor



6 000

6 030

Blood tubes



750 ml



x 148

50 ml



x 24

15 ml



x 48

Falcon R



-20°C
to +40°C



MASTER OF CENTRIFUGATION FOR 90 YEARS

Be confident in choosing MSE! Our centrifuges have been sold worldwide for almost 90 years. Widely proven, they are robust and built to last.

We designed and improved our centrifuges for and with you with a thorough understanding of your needs.

Reliability, reproducibility of results, intuitive programming, robustness and safety, choosing an MSE centrifuge is the guarantee of peace mind for years to come.

Reliability All our machines are individually tested through rigorous inspection procedures, performance and reliability tests in our factory, external laboratories and with end-user tests before to be released to the market	Life Span The average service life of a centrifuge MSE is 10 years . We guarantee the availability of the spare parts during at least all this period.
	Low-cost maintenance Our machines are designed to provide you long life service through maintenance-free design .

DIRECTIVES AND STANDARDS



All our products are CE and IVD marked.
They comply with **Regulation IVDR 2017-746**

In consequence, all our centrifuges reflects the conformity of the medical device with the essential safety and clinical benefit requirements laid down by European regulations.



In accordance with these regulations all MSE laboratory equipment is fully RoHS 3 compliant, meaning that potentially harmful substances such as cadmium, mercury, lead or phthalates are not found in any of our products.



ISO 9001 : Certified quality management system
ISO 13485 : Certified quality management system specific for Medical Devices

- **WARRANTY** : 24 months of warranty
+ extended warranty
- **CUSTOMER ORIENTED** : Immediate assistance to
any inquires and claims
- **QUALITY** : Our ISO 9001 certification is testament to
the quality of our products and our commitment to
continually improve them
- **CE marked and EMC tested**



	HARRIER	HARRIER R
Height	380 mm	380 mm
Width	443 mm	443 mm
Depth	545 mm	695 mm
Weight	~41,8 /45 kg (voltage version)	~ 65/69kg (voltage version)
Maximum capacity	1 000 ml	1 000 ml
Maximum speed	90 ÷ 18 000, step 1 RPM	90 ÷ 18 000, step 1 RPM
Maximum RCF	24 270 x g	30 065 x g
Timer	1s ÷ 99h 59min 59s + ∞, step 1s	
Noise output swing out rotor	<55 dB (*)	<57 dB (*)
Number of acceleration rates	10	10
Number of brake rates	10	10
Number of programs	100	100
Acceleration time	4 s	4 s
Breaking time	5 s	5 s
Display	Digital Green Led	Digital Green Led
Motor	Brushless induction	Brushless induction
Temperature control range	Air cooled	- 20°C to + 40°C
Power	500 W	1000 W
Power supply	230V, 6,3A, single phase, 50/60Hz 110V, 10A, single phase, 50/60Hz	230V, 10A, single phase, 50/60Hz 110V, 16A, single phase, 60Hz
Catalogue number	230V, 50/60Hz MSB080.CX2.5 110V, 50/60Hz MSB080.CX2.1	230V, 50/60Hz MSB080.CR2.5 110V, 60Hz MSB080.CR2.1

(*) with swing out rotor MSE2403 4 x 250 ml

All MSE centrifuges comply with the latest European safety and environmental standards.
Our centrifuges also comply with the RoHS directive.



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