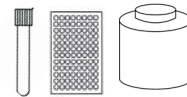


Your Partner in Laboratory Centrifuges

MSE

Harrier and Harrier R

Medium capacity refrigerated benchtop centrifuge



4 x 250 ml
48 tubes
4 micro plates



18 000 rpm



30 065 xg



FEATURES

- Automatic rotor identification
- More than 80 years in the centrifuge industry
- Adaptors available to spin tubes, bottles and other containers
- Fully programmable
- Maintenance free
- Custom-made adaptors available on request
- Low height for easy loading
- Smooth and easy clean surface
- Continuous operation mode



SWING OUT ROTOR SYSTEMS

Swing-out rotor 4 x 250 ml (OLD)

BECOMING OBSOLETE

Cat. No.	Adaptor	Rotor Capacity	Max. RPM	Max. RCF	Max. Φ mm
MSE2228	Swing-out rotor	4 x 250 ml	5 000	4 724	83
MSE4171	Round Adaptor for skirted, conical-bottom 2 x 30 ml Sterilin tubes				2 x 25 mm
MSE4202	Round Adaptor for round-bottom 100 ml tube and for MSE4310 round Adaptor for 50 ml round-bottom tube				1 x 46 mm
MSE4202C	Round Adaptor MSE4202 with MSE4210 round Adaptor for 50 ml round-bottom tube				1 x 35.5 mm
MSE4203	Round Adaptor for 50 ml Falcon tube				1 x 30 mm
MSE4204	Round Adaptor for 5 x 15 ml Falcon tubes				5 x 16.9 mm
MSE4205	Round Adaptor for blood collection 9 x 1,6÷7 ml tubes				9 x 13.5 mm
MSE4206	Round Adaptor for round-bottom 12 x 7/5 ml tubes				12 x 13 mm
MSE4207	Round Adaptor for blood collection 8 x 7÷11 ml tubes				8 x 17 mm
MSE4208	Round Adaptor for blood collection 4 x 7÷11 ml tubes				4 x 17 mm
MSE4209	Round Adaptor for round-bottom 12 x 2 ml Eppendorf tubes with snap closing				12 x 11 mm
MSE4211	Round Adaptor for round-bottom 3 x 30/25 ml tubes				3 x 25.5 mm
MSE4920	Pad (PP) under 175ml FALCON tubes (for MSE3225, MSE3229C) and 225 ml FALCON tubes				
MSE4094	Round Adaptor for round-bottom 5 ml tube				1 x 13 mm
MSE4140	Round Adaptor for round-bottom 15 ml Falcon tube				1 x 16.9 mm
MSE4919C/A	Round Adaptor used with MSE4140 Adaptor for 5 ml Eppendorf snap cap or screw cap tube				

Swing-out rotor 4 x 200 ml

Cat. No.	Adaptor	Rotor Capacity	Max. RPM	Max. RCF	Max. Φ mm
MSE2487	Swing-out rotor	4 x 200 ml	5200	4414 xg	57
MSE4094	Round Adaptor for round-bottom 5 ml tube				1 x 13 mm
MSE4140	Round Adaptor for round-bottom 15 ml Falcon tube				1 x 16.9 mm
MSE4133	Round Adaptor without bottom				1 x 13.3 mm
MSE4123	Round Adaptor for round-bottom 50 ml tube				1 x 35.2 mm
MSE4157	Round Adaptor for blood collection 7 x 1,6÷7 ml tubes				7 x 13.5 mm
MSE4159	Round Adaptor short for blood collection 7 x 7÷11 ml tubes				7 x 17.1 mm
MSE4160	Round Adaptor short for blood collection 7 x 1,6÷7 ml tubes				7 x 13.5 mm
MSE4161	Round Adaptor for blood collection 7 x 7÷11 ml tubes				7 x 17.1 mm
MSE4162	Round Adaptor for round-bottom 5 x 10 ml Nalgene® tubes				5 x 16.7 mm
MSE4164	Round Adaptor for 50 ml Falcon® tube				1 x 30 mm
MSE4248	Round Adaptor for round-bottom 100 ml tube				1 x 46 mm
MSE4492	Round Adaptor for round-bottom 12 x 7 ml tube				1 x 12.3 mm
MSE4497	Round Adaptor for round-bottom 12 x 5 ml tubes				12 x 12.5 mm
MSE4498	Round Adaptor for round-bottom 12 x 1,4 ml S-Monovette® tubes				12 x 9 mm
MSE4500	Round Adaptor for blood collection 4 x 7÷11 ml tubes				4 x 17.1 mm
MSE4501	Round Adaptor for round-bottom 8 x 2/1,5 ml Eppendorf® tubes				8 x 11 mm
MSE4075	Round Adaptor for 15 ml Falcon tube				1 x 16.9 mm
MSE4232	Round Adaptor for round-bottom 5 x 7/5 ml tubes				5 x 12.5 mm
MSE4237	Round Adaptor for blood collection 4 x 1,6÷7 ml tubes				4 x 13.1 mm
MSE4238	Round Adaptor for blood collection 4 x 7÷11 ml tubes				4 x 16.5 mm
MSE4240C	Round Adaptor for 50 ml Falcon tube or Nalgene tube with rubber pad MSE4239				1 x 30 mm
MSE4241C	Round Adaptor for conical-bottom 30/25 ml tube with rubber pad MSE4239				1 x 25.5 mm
MSE4243C	Round Adaptor for round-bottom or conical-bottom 50 ml tube with rubber pad MSE4239				1 x 35.5 mm
MSE4245	Round Adaptor for round-bottom 5 x 1.5/2 ml Eppendorf tubes				5 x 11 mm
MSE4277	Round Adaptor for skirted, conical-bottom 50 ml Greiner tube				1 x 30 mm

Swing-out rotor 4 x 40 ml for CPT tube (with bucket MSE3634 and lid MSE7236)

Other rotors

Cat. No.	Adaptor	Rotor Capacity	Max. RPM	Max. RCF	Max. Φ mm
MSE2633C	Swing-out rotor	4 x 40 ml	3 200	1 809	16,8
MSE4232	Round Adaptor for round-bottom 5 x 7/5 ml tubes				5 x 12,5 mm
MSE4237	Round Adaptor for blood collection 4 x 1,6÷7 ml tubes				4 x 13,1 mm
MSE4238	Round Adaptor for blood collection 4 x 7÷11 ml tubes				4 x 16,5 mm
MSE4635	Round Adaptor for round-bottom 4 x 8 ml CPT tubes				4 x 16 mm

Cat. No.	Rotor	Adaptor	Max. RPM	Max. RCF
MSE2336C	Microtiter swing-out rotor (max 8 MTP or 2 DWP) (with 2 hangers MSB3337)		4500	2626
MSE2502C	Microtiter swing-out rotor (max 6 MTP or 2 DWP) (with 2 hangers MSB3358)		3000	1036
MSE2503C	Cyto rotor (with 4 hangers MSB3657)		500	769

Swing-out rotor 4 x 250 ml (NEW)

Cat. No.	Adaptor	Rotor Capacity	Max. RPM	Max. RCF	Max. Φ mm
MSE2403	Swing-out rotor	4 x 250 ml	4800	4405	83
MSE4101	Round Adaptor for 4 x 50 ml Falcon tubes				4 x 30 mm
MSE4102	Round Adaptor for 3 x 50ml Falcon tubes				3 x 30 mm
MSE4301C/A	Round Adaptor with MSE4226 Pad (PP) under 250 ml flat-bottom bottle				1 x 61,5 mm
MSE4301C/B	Round Adaptor with MSE4068 Pad (PP) under 250 ml round-bottom bottle				1 x 61,5 mm
MSE4361	Round Adaptor for 100 ml tube				1 x 45 mm
MSE4362	Round Adaptor for skirted, conical-bottom 2 x 50 ml Greiner tubes				2 x 30 mm
MSE4363	Round Adaptor for round-bottom glass 3 x 50 ml tubes				3 x 36 mm
MSE4364	Round Adaptor for blood collection 19 x 4÷7 ml tubes				19 x 13,1 mm
MSE4365	Round Adaptor for blood collection 19 x 1,6÷4 ml tubes				19 x 13,1 mm
MSE4366	Round Adaptor for 8 x 15 ml Falcon tubes				8 x 16,9 mm
MSE4366C	Round Adaptor for 8 x 5 ml Eppendorf snap cap closing or screw cap closing tube				8 x 16,9 mm
MSE4367	Round Adaptor for blood collection 15 x 7÷11 ml tubes				15 x 17 mm
MSE4368	Round Adaptor for 7 x 15 ml Falcon tubes				7 x 16,9 mm
MSE4368C	Round Adaptor for 7 x 5 ml Eppendorf snap cap closing or screw cap closing tube				7 x 16,9 mm
MSE4369	Round Adaptor for 26 x 1,6÷5 ml S-Monovette tubes				26 x 12,2 mm
MSE4370	Round Adaptor for skirted, conical-bottom 3x30 ml Sterilin tubes or round-bottom 7 x 28/30ml Nalgene tubes				7 x 26 mm
MSE4371	Round Adaptor for round-bottom 12 x 15/10 ml Nalgene tubes				12 x 17 mm
MSE4372	Round Adaptor for round-bottom 4 x 50 ml Nalgene tubes				4 x 30 mm
MSE4373	Round Adaptor for round-bottom 18 x 2/1,5 ml Eppendorf tubes				18 x 11 mm
MSE4374	Round Adaptor for 200 ml flat-bottom bottle				1 x 57 mm
MSE4376	Round Adaptor for blood collection 17 x 1,6÷7 ml tubes				17 x 13,1 mm

ANGLE ROTOR SYSTEMS

Rotor name	Rotor Cat. No.	Max. Capacity	Max. speed rpm	Max. RCF xg	Max. Φ mm	Adaptor Cat. No.	Adaptor	Dimension No. x Φ (mm)
Hematocrite rotor for 24 capillaries	MSE2351	24 x 75 mm	13 000	16 816	1,4	N/A	N/A	N/A
Angle rotor 6 x 8 x 0.2 ml for PCR strips with Hermetically Sealed Lid (angle 45°)	MSE1519	6 x 8 x 0.2 ml	12 000	15 294	10,2	N/A	N/A	N/A
Angle rotor 12 x 8 x 0.2 ml for PCR strips with Hermetically Sealed Lid (angle 45°)	MSE1636	12 x 8 x 0.2 ml	14 000	20 817	10,2	N/A	N/A	N/A
Angle rotor 36 x 0.5 ml with Hermetically Sealed Lid (angle 45°)	MSE1511	36 x 0.5 ml	18 000	29 703	7,8	N/A	N/A	N/A
Angle rotor 24 x 2 ml for filter tubes/spin columns with Hermetically Sealed Lid (angle 45°)	MSE1811	24 x 2 ml	15 000	21 382	10,8			
Angle rotor 12 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	MSE1250	12 x 2/1.5 ml	18 000	24 270	10,8		MSE4135 Round Adaptor without bottom for 0.5 ml tube	
Angle rotor 24 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	MSE1512	24 x 2/1.5 ml	18 000	30 065	10,8		MSE4177 Round Adaptor for conical-bottom 0.4 ml tube	
Angle rotor 30 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	MSE1310	30 x 2/1.5 ml	15 000	24 400	10,8		MSE4184 Round Adaptor for round-bottom 0.2 ml tube 1 x 6.2 mm	
Angle rotor 36 x 2/1.5 ml with Hermetically Sealed Lid (angle 45°)	MSE1513	36 x 2/1.5 ml	18 000	30 065	10,8			
Angle rotor 12 x 5 ml Eppendorf tubes with Hermetically Sealed Lid (angle 45°)	MSE1995	12 x 5 ml	15 000	21 382	17	N/A	N/A	N/A

Rotor name	Rotor Cat. No.	Max. Capacity	Max. speed rpm	Max. RCF xg	Max. Φ mm	Adaptor Cat. No	Adaptor	Dimension No. x Φ (mm)
Angle rotor 12 x 10 ml (O17 x 77 mm) with Hermetically Sealed Lid (angle 30°)	MSE1510	12 x 10 ml	15 000	21 382	17	N/A	N/A	N/A
Angle rotor 12 x 10 ml (O17 x 109 mm) with Hermetically Sealed Lid (angle 30°)	MSE1518	12 x 10 ml	12 000	15 133	16,8	N/A	N/A	N/A
Angle rotor 10 x 15 ml for Falcon tubes with Hermetically Sealed Lid (angle 30°)	MSE1517	10 x 15 ml	10 000	10 733	17	MSE4098	Round Adaptor for round-bottom 5 ml tube	1 x 13 mm
						MSE4919	Round Adaptor for 5 ml Eppendorf tube with snap or screw cap	1 x 16 mm
Angle rotor 8 x 15/10 ml (angle 30°) (with bucket MSE3131)	MSE1792C/A	8 X 15/10 ml	6 000	4 226	17			
Angle rotor 8 x 10 ml (angle 30°) (with bucket MSE3132)	MSE1792C/B	8 x 10 ml	6 000	3 783	17			
Angle rotor 12 x 15/10 ml (angle 30°) (with bucket MSE3131)	MSE1791C/A	12 x 15/10 ml	5 500	4 058	17			
Angle rotor 12 x 10 ml (angle 30°) (with bucket MSE3132)	MSE1791C/B	12 x 10 ml	5 500	3 686	17			
Angle rotor 24 x 15/10 ml (angle 30°) (with bucket MSE3131)	MSE1261C/A	24 x 15/10 ml	5 000	3 997	17		MSE4133 Round Adaptor without bottom 1 x 13.3 mm	
Angle rotor 24 x 10 ml (angle 30°) (with bucket MSE3132)	MSE1261C/B	24 x 10 ml	5 000	3 997	17			
Angle rotor 30 x 15/10 ml (angle 30°) (with bucket MSE3131)	MSE1552C/A	30 x 15/10 ml	4 500	3 011	17			
Angle rotor 30 x 10 ml (angle 30°) (with bucket MSE3132)	MSE1552C/B	30 x 10 ml	4 500	2 875	17			
Angle rotor 36 x 15/10 ml (angle 30°) (with bucket MSE3131)	MSE1507C/A	36 x 15/10 ml	5 000	3 997	17			
Angle rotor 36 x 10 ml (angle 30°) (with bucket MSE3132)	MSE1507C/B	36 x 10 ml	5 000	3 997	17			

Rotor name	Rotor Cat. No.	Max. Capacity	Max. speed rpm	Max. RCF xg	Max. Φ mm	Adaptor Cat. No	Adaptor	Dimension No. x Φ (mm)
Angle rotor 12 x 30/25 ml (angle 30°) (with bucket MSE3380)	MSE1794C	12 x 30/25 ml	4 500	2 717	25.5	MSE4306 MSE4307	Round Adaptor without bottom for 15 ml Nalgene tube Round Adaptor without bottom for 15 ml Nalgene tube	1 x 13 mm 1 x 17 mm
Angle rotor 6 x 30 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	MSE1509	6 x 30 ml	15 000	19 621	25.5	N/A	N/A	N/A
Angle rotor 8 x 30 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	MSE1324	8 X 30 ml	12 000	14 006	25.5	N/A	N/A	N/A
Angle rotor 6 x 50 ml (angle 30°) (with bucket MSE3327)	MSE1797C	6 X 50 ml	6 000	4 427	30	MSE4086	Round Adaptor for round-bottom 15ml Nalgene tube	1 x 17 mm
Angle rotor 6 x 50 ml for Nalgene tubes with Hermetically Sealed Lid (angle 30°)	MSE1520	6 X 50 ml	12 000	N/A	30	MSE4087	Round Adaptor for round-bottom 5 ml tube	1 x 14 mm
Angle rotor 6 x 50 ml for Falcon tubes with Hermetically Sealed Lid (angle 30°)	MSE1508	6 X 50 ml	10 000	10 733	30	MSE4094	Round Adaptor for round-bottom 5 ml tube	1 x 13 mm
Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3329)	MSE1264C/A	8 X 50 ml	5 500	4 227	30	MSE4122	Round Adaptor for round-bottom 28/30 ml Nalgene tube	1 x 25.8 mm
Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3327)	MSE1264C/B	8 X 50 ml	5 500	4 227	30	MSE4124	Round Adaptor for round-bottom 10ml and S-Monovette 7.5 ml tube	1 x 17 x 86 mm
Angle rotor 10 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3329)	MSE1262C/A	10 X 50 ml	5 500	4 498	30	MSE4140	Round Adaptor for round-tottom 15 ml Falcon tube	1 x 16.9 mm
Angle rotor 10 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3329)	MSE1262C/B	10 x 50 ml	5 500	4 498	30	MSE4299	Round Adaptor without bottom for 28 ml Nalgene tube	MSE4919C/A Round Adaptor used with MSE4140 Adaptor for 5 ml Eppendorf snap cap or screw cap tube
Angle rotor 6 x 85 ml for Nalgene tubes (angle 35°) (with bucket MSE3638)	MSE1637C	6 X 85 ml	7 000	5 014	45.2	MSE4906 MSE4907	Round Adaptor for 50 ml Falcon tube Round Adaptor for 15 ml Falcon tube	1 x 13 mm 1 x 17 mm

Rotor name	Rotor Cat. No.	Max. Capacity	Max. speed rpm	Max. RCF xg	Max. Φ mm	Adaptor Cat. No	Adaptor	Dimension No. x Φ (mm)
Angle rotor 4 x 100 ml (angle 30°) (with bucket MSE3770)	MSE1769C	4 x 100 ml	6 300	5 014	45,2	MSE4075	Round Adaptor for 15 ml Falcon tube	1 x 16,9 mm
						MSE4239	Rubber pad under 100/50/30/25 ml glass tube	1 x 30 mm
						MSE4240C	Round Adaptor for 50 ml Falcon tube or Nalgene tube with rubber pad	
						MSE4241C	MSE4239 Round Adaptor for conical-bottom 30/25 ml tube with rubber pad	1 x 25,5 mm
						MSE4243C	Round Adaptor for round-bottom or conical-bottom 50 ml tube with rubber pad	1 x 35,5 mm
						MSE4247	PP pad under 100 ml PP tube	1 x 25,8 mm
						MSE4275	Round Adaptor for round-bottom or skirted, conical-bottom 30 ml Sterilin tube	
MSE4277	Round Adaptor for skirted, conical-bottom 50 ml Greiner tube	1 x 30 mm						
Angle rotor 8 x BABCOCK bottle (GERBER 5406) (angle 40°) (with bucket MSE3555 and Adaptor MSE4505)	MSE1554C	N/A	2 000	733	36,2	MSE4556	Round Adaptor for BABCOCK bottle	N/A

OUR RANGE OF BENCHTOP CENTRIFUGES



FALCON 6/300R

A benchtop centrifuge with a powerful induction drive, 3 litre capacity centrifuge, with refrigeration. A range of adaptors are available for use with almost any size tube or bottle. It represents excellent value for money in terms of performance, ease of use, safety and reliability.



FALCON

Non-refrigerated version of the Falcon 6/300R. The Falcon 6/300 is a medium capacity 3 litre centrifuge for use when temperature selection is not required.

OUR RANGE OF MICROCENTRIFUGES



KESTREL

The Kestrel is a small compact non-refrigerated benchtop centrifuge capable of spinning 6 blood tubes at over 3000g. Reliable, compact and easy to use, the Kestrel centrifuge is the perfect addition to any medical environment where a small number of blood tubes need to be processed quickly and efficiently.



MICRO CENTAUR P

The Micro Centaur P is an improved version of the original Micro Centaur, adding new features and accessories. Its space-saving design and programmable features makes it an ideal choice for your laboratory.



HAWK

The Hawk is designed to be used in a wide variety of life science applications, especially biochemical and genetic research, with maximum g forces of up to 23,140 and maximum capacity of 4 x 100ml.



HAWK R

The Hawk R is a refrigerated version of the Hawk R and designed to be used in a wide variety of life science applications, especially biochemical and genetic research, with maximum g forces of up to 23,140 and maximum capacity of 4 x 100ml.



MICRO CENTAUR R

Refrigerated version of the Micro Centaur P. Its space-saving design, programmable features and the effective cooling system makes the Micro Centaur R an ideal choice for your laboratory and in-vitro diagnostic (IVD) applications.

- 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



Technical Data

	Harrier	Harrier R
Height (mm)	380 mm	380 mm
Width (mm)	443 mm	443 mm
Depth (mm)	545 mm	695 mm
Weight (kg) 230V/120V	41,8 kg/45 kg	71,8 kg
Maximum capacity	1000 ml	1000 ml
Maximum speed : swing out rotor	5200 rpm	5200 rpm
Maximum RCF : swing out rotor	4724 xg	4724 xg
Maximum speed : angle rotor	18000 rpm	18000 rpm
Maximum RCF : angle rotor	29703 xg	30065 xg
Timer	1 second to 99 hours, 59 minutes, 1s step, or continuous	
Noise output	<65 dB	<65 dB
Number of acceleration rates	10	10
Number of brake rates	10	10
Number of programs	100	100
Display	Digital Green Led	Digital Green Led
Motor	Brushless induction	Brushless induction
Temperature control range	air cooled	-20°C to + 40°C
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

All MSE centrifuges comply with the latest European safety and environmental standards. Our ISO 9001 certification is testament to the quality of our products and our commitment to continually improve them. Our centrifuges are also fully RoHS compliant and our service engineers are SAFE Contractor approved.

