

turns more than heads



## Sigma 8KS



Floor-standing centrifuge  
• Refrigerated





























## Swing-out rotor 11806

### Double bucket 13855 (1 set = 6 pcs)

- Max. capacity: 12 x 1,000 ml
- Max. speed: 3,300 rpm
- Max. RCF: 3,579 x g
- Max. tube length mid-bucket: 215 mm
- Tmin at maximum speed: <4°C
- Angle: 90°



Tube										
Rated capacity (filling volume) [ml]	1.5	2	5	5	6 (5)	7	10	10	10	10
Diameter x length [mm]	10.7 x 42	10.7 x 42	12 x 75	17 x 60	12 x 100	12 x 100	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	16 x 100
Tube material	PP	PP	PS	PPCO	Glass	Glass	PF	PC	PPCO	Glass
Item no.	15008	15040	15060	–	15007	15027	15000	15010	15039	15015

### Adapter

for double bucket 13855



Adapter						
Bore diameter x length [mm]	11.1 x 38.5	12.8 x 52	17 x 52	12.8 x 74	16.5 x 55	17.5 x 55
Tubes per adapter / rotor	26 / 312	37 / 444	12 / 144	32 / 264	20 / 240	19 / 228
Centrifuging radius [mm]	287	286	291	288	289	289
Item no.	17653	17652	17211	17654	17655	17658

Tube										
Rated capacity (filling volume) [ml]	10	14	14	15 (13)	15	25	25	25	30 (26)	30 (26)
Diameter x length [mm]	16 x 100	17 x 100	17 x 100	17 x 110	16.5 x 120	25 x 90	24 x 100	24 x 100	25.3 x 98	25.3 x 98
Tube material	Glass	PS	PP	Glass	PP	PP	Glass	Glass	PF	PPCO
Item no.	15024	15020	15023	15022	15115	–	15025	15026	15029	15032

### Adapter

for double bucket 13855



Adapter				
Bore diameter x length [mm]	17.5 x 55	17 x 78.5	25.5 x 70	25.5 x 77
Tubes per adapter / rotor	19 / 228	12 / 144	7 / 84	8 / 96
Centrifuging radius [mm]	289	292	284	291
Item no.	17658	17659	17662	17670











## Swing-out rotor 11806

### Double bucket 13855 (1 set = 6 pcs)

- Max. capacity: 12 x 1,000 ml
- Max. speed: 3,300 rpm
- Max. RCF: 3,579 x g
- Max. tube length mid-bucket: 215 mm
- Tmin at maximum speed: <4°C
- Angle: 90°







### Tube

										
Rated capacity (filling volume) [ml]	30 (28)	30	30	50 (38)	50 (43)	50	50	50	50	50
Diameter x length [mm]	25.3 x 98	24 x 105	25 x 107	28.8 x 107	28.5 x 107	28.5 x 101.5	34 x 100	34 x 100	34 x 100	35 x 100
Tube material	PC	Glass	PP	PPCO	PF	Stainless steel	Glass	Glass	PC	Glass
Item no.	15030	15033	–	15052	15051	13055	15045	15050	15049	15056










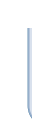
### Adapter

for double bucket 13855



				
Bore diameter x length [mm]	25.5 x 77	25.5 x 70	29.5 x 77	35.5 x 77.5
Tubes per adapter / rotor	8 / 96	7 / 84	7 / 84	4 / 48
Centrifuging radius [mm]	291	284	291	291
Item no.	17670	17662	17676	17675





### Tube

										
Rated capacity (filling volume) [ml]	50	50	85 (73)	85 (76)	94 (85)	94	100 (75)	100 (90)	100	100
Diameter x length [mm]	29 x 117	29 x 117	38 x 112	38 x 112	38 x 103	38 x 110	44 x 100	44 x 100	44 x 100	45 x 100
Tube material	PP	PP	PF	PPCO	Stainless steel	PC	Glass	Glass	Glass	PC
Item no.	–	15151	15080	15076	13085	15094	15078	15106	15100	15103

### Adapter

for double bucket 13855



				
Bore diameter x length [mm]	29.5 x 74	29.5 x 78.5	38.5 x 77	45.5 x 77
Tubes per adapter / rotor	5 / 60	5 / 60	3 / 36	2 / 24
Centrifuging radius [mm]	288	292	291	291
Item no.	17678	17677	17685	17690*



## Swing-out rotor 11806

### Double bucket 13855 (1 set = 6 pcs)

- Max. capacity: 12 x 1,000 ml
- Max. speed: 3,300 rpm
- Max. RCF: 3,579 x g
- Max. tube length mid-bucket: 215 mm
- Tmin at maximum speed: <4°C
- Angle: 90°



Tube										
Rated capacity (filling volume) [ml]	150	150	175	175	200 (168)	200 (170)	200	200	225	230 (220)
Diameter x length [mm]	51 x 99	56 x 113	61 x 118	62 x 139.2	56 x 112	56 x 112	56 x 135	61 x 130	61 x 137	56 x 134
Tube material	PP	Glass	PP	PP	PPCO	Glass	Glass	PP	PP	Glass
Item no.	15125	15206	–	15175	15202	15201	15254	15174	15175	15250
<b>Adapter</b>										
for double bucket 13855										
Bore diameter x length [mm]	51.5 x 77	58 x 110	61 x 100	62.5 x 110	57.5 x 77	58 x 110	62.5 x 110	61 x 100	61 x 100	58 x 110
Tubes per adapter / rotor	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12
Centrifuging radius [mm]	291	289	294	295	291	289	295	294	294	289
Item no.	17692	17695*	17694	17693	17696	17695*	17693	17694	17694	17695*

Tube										
Rated capacity (filling volume) [ml]	250 (232)	250 (232)	250	250	250	400	500 (435)	500 (435)	500	500
Diameter x length [mm]	61.4 x 122	61.4 x 122	61.4 x 125	61 x 145	59.7 x 171.2	85 x 118	69 x 165	69 x 165	69.5 x 152	85 x 135
Tube material	PPCO	PF	Stainless steel	PP	PP	PPCO	PF	PPCO	Stainless steel	PPCO
Item no.	15249	15247	13255	–	–	15401	15507	15508	13507	15501
<b>Adapter</b>										
for double bucket 13855										
Bore diameter x length [mm]	62.5 x 77	62.5 x 77	62.5 x 77	62.5 x 110	86 x 107	70 x 110	70 x 110	70 x 110	86 x 107	86 x 107
Tubes per adapter / rotor	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12	1 / 12
Centrifuging radius [mm]	291	291	291	294	291	294	294	294	291	291
Item no.	17698	17698	17698	17693	13654	13655	13655	13655	13654	13654

\* Including rubber cushion 16250






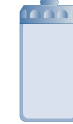
## Swing-out rotor 11806

### Double bucket 13855 (1 set = 6 pcs)

- Max. capacity: 12 x 1,000 ml
- Max. speed: 3,300 rpm
- Max. RCF: 3,579 x g
- Max. tube length mid-bucket: 215 mm
- Tmin at maximum speed: <4°C
- Angle: 90°







### Tube











						
Rated capacity (filling volume) [ml]	500	750 (680)	750	1000 (885)	1000	1000
Diameter x length [mm]	95.5 x 147	85 x 173	100 x 127	97 x 175	100 x 167	100 x 185
Tube material	PP	PPCO	PPCO	PPCO	Stainless steel	PPCO
Item no.	–	15751	15917	15921	13510	15924

### Adapter

for double bucket 13855






					
Bore diameter x length [mm]	96.3 x 110	86 x 107	101 x 146	97.8 x 143	101 x 146
Tubes per adapter / rotor	1 / 12	1 / 12	– / 12	1 / 12	– / 12
Centrifuging radius [mm]	294	291	294	293	294
Item no.	17682	13654	–	13511	–

### Blood and urine tubes

										
Rated capacity (filling volume) [ml]	1.1 – 1.4	2.7 – 5	1.6 – 6	4 – 6	1.8 – 7	4 – 10	9.5 – 10	6 – 10	9 – 10	8
Diameter x length with closure [mm]	8 x 82	11 x 82–108	13 x 81–106	13 x 81–106	13 x 81–107	15 x 91–118	15 x 106	16 x 106–107	16 x 108	16 x 131
Tube material	PP	PP	PP	PET	PET	PP	PET	PET	PP	Glass
Item no.	–	–	–	–	–	–	–	–	–	–

### Adapter

for double bucket 13855

								
Bore diameter x length [mm]		12.8 x 52		13.8 x 54		16.5 x 55		17.5 x 55
Tubes per adapter / rotor		37 / 444		23 / 276		20 / 240		19 / 228
Centrifuging radius [mm]		286		288		289		289
Item no.		17652		17656		17655		17658

## Fixed-angle rotor 12505

### with aluminum lid 17891

- Max. capacity: 6 x 500 ml
- Max. speed: 10,500 rpm
- Max. RCF: 20,461 x g
- Hermetically closable with aluminium lid 17891
- Tmin at maximum speed: <4°C
- Angle: 30°



Tube									
Rated capacity (filling volume) [ml]	1.5	2	10	10	10	15	30 (26)	30 (26)	30 (28)
Diameter x length [mm]	10.7 x 42	10.7 x 42	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	16.5 x 120	25.3 x 98	25.3 x 98	25.3 x 98
Tube material	PP	PP	PF	PC	PPCO	PP	PF	PPCO	PC
Item no.	15008	15040	15000	15010	15039	15115	15029	15032	15030

### Adapter

for fixed-angle rotor 12505



Adapter					
Bore diameter x length [mm]	11.1 x 38.5	16.5 x 69	29.5 x 102	17.7 x 107	26 x 83
Tubes per adapter / rotor	12 / 72	8 / 48	2 / 12	5 / 30	3 / 18
Centrifuging radius [mm]	128	159	130	163	147
Item no.	14151	14144	14148*	14149	14146

Tube										
Rated capacity (filling volume) [ml]	50 (38)	50 (43)	50	50	85 (73)	85 (76)	94 (85)	94	175	200
Diameter x length [mm]	28.8 x 107	28.5 x 107	28.5 x 101.5	29 x 117	38 x 112	38 x 112	38 x 103	38 x 110	61.5 x 139.2	61 x 130
Tube material	PPCO	PF	Stainless steel	PP	PF	PPCO	Stainless steel	PC	PP	PP
Item no.	15052	15051	13055	15151	15080	15076	13085	15094	15175	15174

### Adapter

for fixed-angle rotor 12505



Adapter				
Bore diameter x length [mm]	29.5 x 97	29.5 x 102	38.5 x 99	62 x 127
Tubes per adapter / rotor	2 / 12	2 / 12	1 / 6	1 / 6
Centrifuging radius [mm]	161	125	163	166
Item no.	14150	14148*	14153	14157

\* Combo adapter for 2 x 15 ml and 2 x 50 ml culture tubes





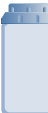

## Fixed-angle rotor 12505

### with aluminum lid 17891

- Max. capacity: 6 x 500 ml
- Max. speed: 10,500 rpm
- Max. RCF: 20,461 x g
- Hermetically closable with aluminium lid 17891
- T<sub>min</sub> at maximum speed: <4°C
- Angle: 30°






### Tube

						
Rated capacity (filling volume) [ml]	250 (232)	250 (232)	250	250	250	500 (435)
Diameter x length [mm]	61.4 x 122	61.4 x 122	61.4 x 125	59.7 x 171.2	61 x 145	69 x 165
Tube material	PF	PPCO	Stainless steel	PP	PP	PF
Item no.	15247	15249	13255	–	–	15507

### Adapter

for fixed-angle rotor 12505



			
Bore diameter x length [mm]	62 x 115	62 x 127	69.9 x 142
Tubes per adapter / rotor	1 / 6	1 / 6	1 / 6
Centrifuging radius [mm]	156	166	166
Item no.	14155	14157	–

# Cleanroom

## Robust and resistant



**Cleanroom coating**  
Available for all accessories

An extremely resistant cleanroom coating is available from Sigma for all aluminium buckets and rotors. This coating provides reliable corrosion protection for accessories, especially where aggressive chemicals











are used. The cleanroom coating can even withstand exposure to sodium hydroxide and hydrochloric acid. The surfaces are also food-grade (FDA certified) and can easily be cleaned without residues.







## Fixed-angle rotor 12510











with aluminum lid 17891  
and 6 stainless steel adapters 13511






- Max. capacity: 6 x 1,000 ml
- Max. speed: 7,000 rpm
- Max. RCF: 11,285 x g
- Hermetically closable with aluminium lid 17892
- Tmin at maximum speed: <4°C
- Angle: 25°



Tube										
Rated capacity (filling volume) [ml]	1.5	2	10	10	10	15	30 (26)	30 (26)	30 (28)	50 (38)
Diameter x length [mm]	10.7 x 42	10.7 x 42	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	16.5 x 120	25.3 x 98	25.3 x 98	25.3 x 98	28.8 x 107
Tube material	PP	PP	PF	PC	PPCO	PP	PF	PPCO	PC	PPCO
Item no.	15008	15040	15000	15010	15039	15115	15029	15032	15030	15052

Adapter						
for fixed-angle rotor 12510						
Bore diameter x length [mm]	11.1 x 38.5	11.1 x 38.5	16.5 x 69	17 x 107	26 x 83	29.5 x 98
Tubes per adapter / rotor	26 / 156	26 / 156	19 / 114	12 / 72	8 / 48	7 / 42
Centrifuging radius [mm]	185	185	195	203	194	199
Item no.	14162	14162	14164	14165	14167	14169

Tube										
Rated capacity (filling volume) [ml]	50 (43)	50	50	85 (73)	85 (76)	94 (85)	94	175	200	250 (232)
Diameter x length [mm]	28.5 x 107	28.5 x 101.5	29 x 117	38 x 112	38 x 112	38 x 103	38 x 110	61.5 x 139.2	61 x 130	61.4 x 122
Tube material	PF	Stainless steel	PP	PF	PPCO	Stainless steel	PC	PP	PP	PPCO
Item no.	15051	13055	15151	15080	15076	13085	15094	15175	15174	15249

Adapter					
for fixed-angle rotor 12510					
Bore diameter x length [mm]	29.5 x 98	29.5 x 102	38.5 x 99	62 x 130	62.5 x 106
Tubes per adapter / rotor	7 / 42	5 / 30	3 / 18	1 / 6	1 / 6
Centrifuging radius [mm]	199	198	195	206	202
Item no.	14169	14171	14174	14177	14178





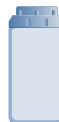



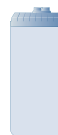
## Fixed-angle rotor 12510

with aluminum lid 17891  
and 6 stainless steel adapters 13511

- Max. capacity: 6 x 1,000 ml
- Max. speed: 7,000 rpm
- Max. RCF: 11,285 x g
- Hermetically closable with aluminium lid 17892
- Tmin at maximum speed: <4°C
- Angle: 25°








### Tube

									
Rated capacity (filling volume) [ml]	250 (232)	250	250	250	500 (435)	500 (435)	500	500	1,000
Diameter x length [mm]	61.4 x 122	61.4 x 125	59.7 x 171.2	61 x 145	69 x 165	69 x 165	69.5 x 152	95.5 x 147	97.5 x 195.3
Tube material	PF	Stainless steel	PP	PP	PF	PPCO	Stainless steel	PP	PPCO
Item no.	15247	13255	–	–	15507	15508	13507	–	–

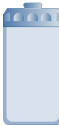
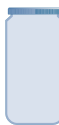
### Adapter

for fixed-angle  
rotor  
12510



					
Bore diameter x length [mm]	62.5 x 106	62 x 130	70 x 140	96.3 x 110	97.8 x 143
Tubes per adapter / rotor	1 / 6	1 / 6	1 / 6	1 / 6	1 / 6
Centrifuging radius [mm]	202	205	206	206	205
Item no.	14178	14177	14180	14182	13511*

### Tube

		
Rated capacity (filling volume) [ml]	1,000	1,000
Diameter x length [mm]	100 x 185	100 x 167
Tube material	PPCO	Stainless steel
Item no.	15924	13510

### Adapter

for fixed-angle  
rotor  
12510



Bore diameter x length [mm]	101 x 155
Tubes per adapter / rotor	– / 6
Centrifuging radius [mm]	206
Item no.	–

# Material properties

## Guideline for optimal tube selection

Due to the many factors that influence material properties, this overview is only intended as a general recommendation. There is no guarantee of the stated properties. Users should therefore carefully

test materials for suitability under specific application conditions. Tubes should be discarded as soon as they show any sign of material fatigue.

	Polycarbonate (PC)	Polyvinyl fluoride (PF)	Polystyrene (PS)	Polyethylene (PE)	Polypropylene (PP)
<b>Autoclave resistant</b>	Yes	Yes	No	No	Yes
<b>Elasticity</b>	Not elastic	Not elastic	Not elastic	Good	Not elastic
<b>Transparency</b>	Transparent	Translucent	Transparent	Translucent	Translucent
<b>Microwave resistant</b>	Moderate	Yes	No	Limited	Moderate
<b>Chemical resistance</b>					
Weak acids	Yes	Yes	Yes	Yes	Yes
Strong acids	No	Yes	Limited	Yes	Yes
Alcohols and alkalis	No	Yes	Yes	Yes	Yes
Salts	Limited	Yes	Limited	Yes	Yes
<b>Note:</b>	Frequent autoclaving leads to loss of strength	Tubes should be completely filled and closed for use at maximum RCF			

	PP copolymer (PPCO)	Glass	High-speed glass (HS glass)	Stainless steel
<b>Autoclave resistant</b>	Yes	Yes	Yes	Yes
<b>Elasticity</b>	Moderate	Not elastic	Not elastic	Not elastic
<b>Transparency</b>	Translucent	Transparent	Transparent	Opaque
<b>Microwave resistant</b>	Moderate	Yes	Yes	No
<b>Chemical resistance</b>				
Weak acids	Yes	Yes	Yes	Limited
Strong acids	Yes	Yes	Yes	Limited
Alcohols and alkalis	Yes	Yes	Yes	Yes
Salts	Yes	Yes	Yes	Limited
<b>Note:</b>		Max. RCF for all glass tubes approx. 4,000 x g	High-speed glass for maximum RCF of 13,100 x g	

# Spincontrol S controller

## Intuitive operation and many options

The patented one-knob Spincontrol S controller sets standards in control technology for laboratory centrifuges. All parameters, such as speed, RCF or temperature, are set using the multifunction knob and can even be altered during operation. Illuminated buttons for starting, stopping and lid opening facilitate access to these functions.

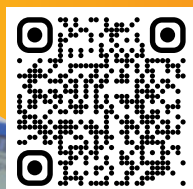
Along with manual parameter configuration, previously entered programs can be selected via shortcuts. These programs can be assigned alphanumeric names to enhance process reliability and simplify operation. Another practical feature is the progress bar that visualises program status and can be seen at a distance. All setpoint and actual values are constantly shown on the clearly organised display.

The countless features leave nothing to be desired: timer after setpoint speed reached, capacity for 60 programs, password protection against unintentional alteration of run parameters, rotor cycle counter. Those are just a few of the highlights that make the Spincontrol S controller a highly versatile system that will help you to meet the laboratory requirements of the future.

This premium controller from Sigma supports internal quality management functions as well as external communication with a laboratory information management system (LIMS). That way the Spincontrol S supports traceable professional reporting.

Display	TFT
Message window	+
Constant display of setpoints and actual values	+
Languages	DE, GB, PT, FR, ES, RU, HU, IT, SE, CN
Timer (s; h:min)	10 – 99:59
Timer tracks time after setpoint speed is reached; switchable	+, +
Time increment [s]	60; 1
Short run, Continuous run	+, +
Speed increment [rpm]	100; 1
Temperature increment [°C]	1
RCF increment [x g]	10; 1
Progress indicator	+
Programs	60
User-definable program name (alphanumeric)	+
Program list, preview of all parameters	+, +
Linear acceleration curves	10
Quadratic acceleration curves	10
User-definable acceleration curves	10
Linear braking curves	10
Quadratic braking curves	10
User-definable braking curves	10
Free run-out	+
Automatic lid opening at end of run, switchable	+, +
Start delay (clotting time) adjustable/switchable	+, +
Standstill cooling; switchable	+, +
Pre-cooling program	+
Temperature deviation monitoring, settable	+
Audible signal, switchable	+, +
Visual standstill indication	+
Centrifuge cycle count	+
Rotor cycle monitoring	+
Rotor end-of-life warning	+
Configurable for liquids > 1.2 g/cm <sup>3</sup>	+
Lockable controller with password protection	+
Microprocessor control	+

**Spincontrol S**  
Get more information.  
View our video:





# Premium quality

## Made in Germany

The Sigma 8KS meets the highest technical requirements for laboratory centrifuges. Developed and produced at our facility in Osterode, Germany, it is a high-performance, durable and energy-efficient quality product and conforms to the latest safety, emissions and environmental standards. Sigma guarantees the availability of spare parts and wearing parts for at least 10 years.

Furthermore, you benefit from our extensive services portfolio, including commissioning, maintenance, device calibration and more. Our qualified service technicians are ready to provide professional maintenance and repair as well as loaner devices if necessary. All support services are designed to ensure reliability and optimise system availability.

Sigma 8KS	
<b>Max. capacity [ml]</b>	
Swing-out rotor	12 x 1,000
Fixed-angle rotor	6 x 1,000
<b>Max. RCF</b>	20,461
<b>Maximum speed [rpm]</b>	10,500
<b>Minimum speed [rpm]</b>	100
<b>Noise level at maximum speed (approximate) [dB(A)]</b>	
Swing-out rotor 11805 with bucket 13850 in item no. 10631 / 10633	≤ 57 / 55
Fixed-angle rotor 12510 with lid 17892 in item no. 10631 / 10633	≤ 67 / 54
<b>Max. acceleration time [s]</b>	
Swing-out rotor 11805 with bucket 13850	≤ 59
Fixed-angle rotor 12510 with lid 17892	≤ 82
<b>Max. braking time [s]</b>	
Swing-out rotor 11805 with bucket 13850	≤ 83
Fixed-angle rotor 12510 with lid 17892	≤ 93
<b>Temperature adjustment range [°C]</b>	-20 – +40
<b>Power consumption [W]</b>	6,500
<b>Height x width x depth [mm]</b>	990 x 820 x 949
<b>Height with open lid [mm]</b>	1,690
<b>Weight without rotor [kg]</b>	450
<b>Refrigerant</b>	R452A
Filling quantity [kg] / Max. permissible pressure [bar]	2.280 / 28
CO <sub>2</sub> equivalent [t]	4.879



### Calibration

Documented proof of compliance with essential technical parameters.

Speed or run time (item no. 17713)

Speed and run time (item no. 17714)

Speed, run time, temperature (item no. 17715)

### Device qualification (IQOQ)

This comprehensive device qualification includes installation qualification and metrological checking of all functional parameters with a rotor.

IQOQ documents (item no. 170000)

IQOQ on site (upon request)

#### Sigma 8KS centrifuge

3 x 400 V, 50 Hz, air-cooled compressor (item no. 10631)

3 x 400 V, 60 Hz, air-cooled compressor (item no. 10630)

3 x 220–240 V, 60 Hz, air-cooled compressor (item no. 10632)

3 x 400 V, 50 Hz, water-cooled compressor (item no. 10633)

#### Sigma 8KS GMP

3 x 400 V, 50 Hz, water-cooling (item no. 91300)

#### Sigma 8KS inert gas

3 x 400 V, 50 Hz, air-cooled compressor with inert gas injection system (item no. 91301)

3 x 400 V, 50 Hz, water-cooling and inert gas injection system (item no. 91583)



# Product portfolio

Sigma offers a broad product portfolio with more than 25 laboratory centrifuges. They can be combined with an extensive range of fixed-angle and swing-out rotors and a large variety of accessories to obtain the right device configuration for every application.



**Microcentrifuge**  
**Sigma 1-16**

- 36 x 2 ml
- 15,000 rpm
- 20,627 x g

**Floor-standing centrifuge**  
**Sigma 8KS**

- 12 x 1,000 ml
- 5,100 rpm
- 8,578 x g

- 6 x 1,000 ml
- 10,500 rpm
- 20,461 x g



**Benchtop centrifuge**  
**Sigma 2-7**

- 4 x 100 ml
- 4,000 rpm
- 2,540 x g

- 30 x 15 ml
- 4,000 rpm
- 2,486 x g



**Benchtop centrifuge**  
**Sigma 3-30KS**

- 4 x 100 ml
- 5,000 rpm
- 3,969 x g

- 6 x 94 ml
- 30,000 rpm
- 70,121 x g



**Robot centrifuge**  
**Sigma 4-5KRL**

- 100 x 15 ml
- 4,700 rpm
- 4,470 x g

## Legend

Max. capacity

Max. speed

Max. RCF

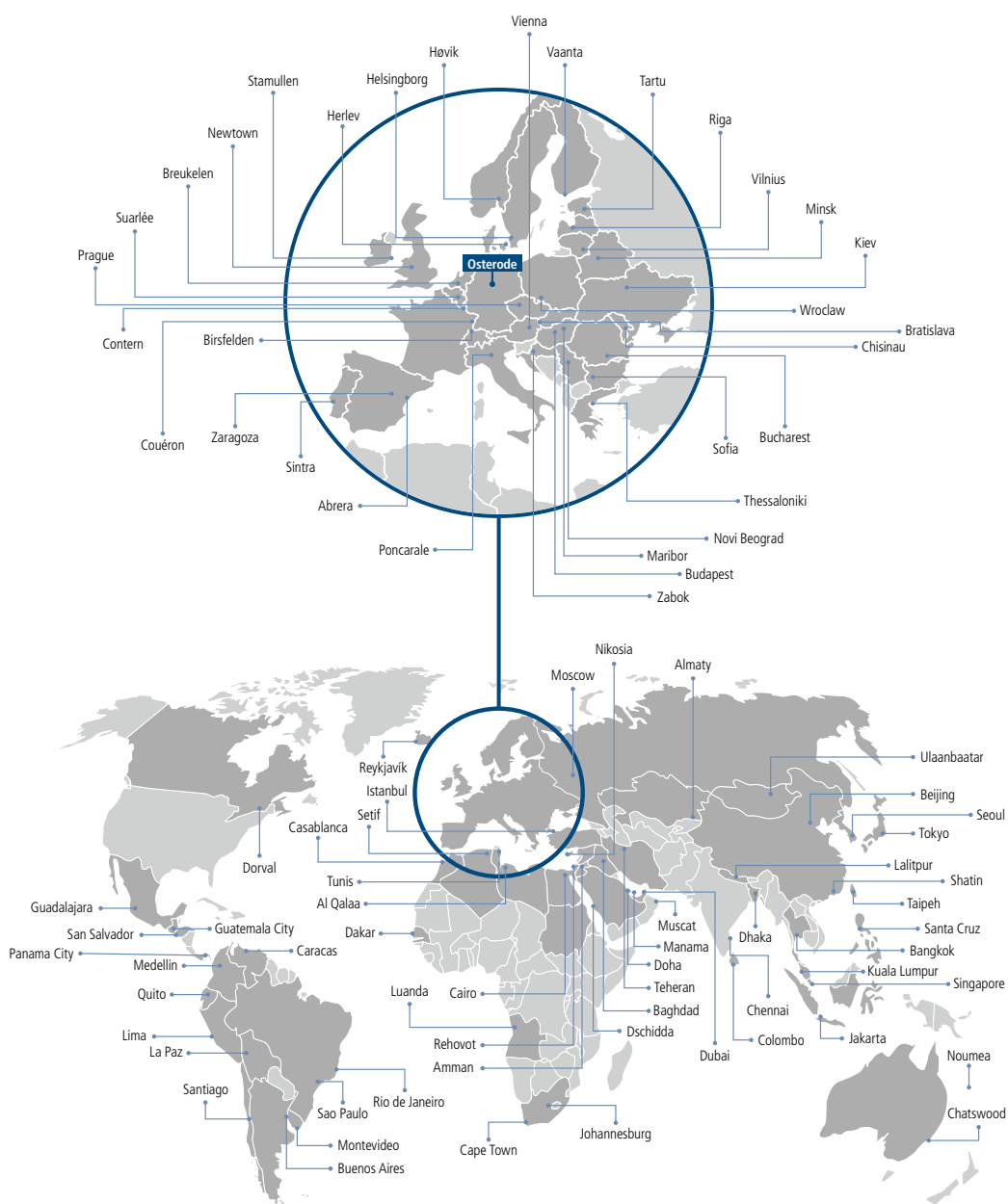
Swing-out rotor

Fixed-angle rotor

# Global service

## For local product security

Our trained service partners in over 100 countries ensure consistently high quality in accordance with national regulations. Our specialists can also be engaged quickly around the world, either remotely or on site in person.



Selected locations of our representatives.

An overview of all representatives with detailed contact information can be found at [www.sigma-zentrifugen.de/en/sales-partners/](http://www.sigma-zentrifugen.de/en/sales-partners/)



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