

## AUTOMATED CENTRIFUGES

# — ROTANTA 460 ROBOTIC

## PROVEN AND POWERFUL

Our ROTANTA 460 Robotic model is a cooled, floorstanding centrifuge. Robotic centrifuges from the ROTANTA range have been an integral part of numerous laboratory automation systems for several decades.

Today automated sample preparation is indispensable in medical diagnostics. Robotically operated ROTANTA models have long been successfully deployed in biotechnology research laboratories and in the pharmaceutical industry, for example for high throughput screening. In pharmaceutical research, active ingredients are more and more frequently tested on cells in order to minimise experiments with animals. This too makes the use of automated centrifuges increasingly necessary.



## — HIGHLIGHTS

- Max. RPM: 6,200 min<sup>-1</sup>
- Max. RCF: 6,446
- Max. capacity: 80 x 10 ml or 12 microtiter plates
- Loading and unloading hatch in the lid
- Hatch opening time < 6 seconds
- IVDR-conform according to regulation (EU) 2017/746
- Fast + Slow positioning mode
- Positioning time of 5 seconds
- Positioning accuracy 3 encoder steps (out of a total of 4096)
- Additional light barriers in the hatch area (optional)

## — FEATURES


- Metal housing and lid
- Emergency lid lock release
- Powered lid lock
- Lid dropping protection
- Stainless steel inner chamber
- Automatic rotor recognition
- Error display
- Transformer for different voltage variants
- imbalance switch-off
- Overtemperature fuse
- Interface via RS232
- Overcurrent limitation when closing the hatch
- Manual operation via key switch possible (backup)

TECHNICAL DATA

	ROTANTA 460 ROBOTIC refrigerated	ROTANTA 460 ROBOTIC refrigerated
automated opening	front in lid	back in the lid
voltage *)	operable at different voltages, devices are equipped with a transformer	operable at different voltages, devices are equipped with a transformer
frequency	50 - 60 Hz	50 - 60 Hz
consumption	1,800 VA	1,800 VA
max. capacity	24 x 50 ml	24 x 50 ml
max. RPM	6,200 min <sup>-1</sup>	6,200 min <sup>-1</sup>
max. RCF	6,446	6,446
Permissible density of the centrifuged material	1.2 kg/dm <sup>3</sup>	1.2 kg/dm <sup>3</sup>
dimensions (WxDxH)	554x697x654 mm	554x697x654 mm
weight	approx. 154 kg	approx. 154 kg
<b>Cat. No.</b>	<b>5680-10-RS232</b>	<b>5680-RS232</b>
110-120 V 1~	5680-11-RS232	5680-01-RS232

\*) Other voltages on request.

SWING-OUT, 4-PLACE | | 4444





**Rotor**

max. RPM   max. RCF <sup>2)</sup>	4.500 min <sup>-1</sup>   4.392
max. capacity	24 x 50 ml
run-up   run-down, braked in sec	69   68
angle   temperature in °C <sup>1)</sup>	90°   6 °C
<b>Cat. No.</b>	<b>4444</b>















+

**Bucket**

<b>Cat. No.</b>	<b>4486-R/4</b>
-----------------	-----------------


















**Vessels**

														
capacity in ml	1.1-1.4	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	7.5-8.5	9-10	10	1.6-5	4-7	4-7	8.5-10	50
Ø x L in mm	8x66	13x65	11 x 66	15 x 75	11 x 92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100	29x115
max. RCF <sup>2)</sup>	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392
radius in mm	194	194	194	194	194	194	194	194	194	194	194	194	194	194
<b>Cat. No.</b>	<b>blood collection / urine vessels</b>													<b>-</b>

+

**Adapter**

														
boring Ø x L in mm	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	15.1x43	30x49
vessels per rotor	80	80	80	80	80	80	80	80	80	80	80	80	80	24
<b>Cat. No.</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>4473</b>	<b>SK19.14</b>

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.  
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

— SWING-OUT, 4-PLACE | 4444



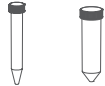
<b>Rotor</b>	
max. RPM   max. RCF <sup>2)</sup>	4,500 min <sup>-1</sup>   4,188
max. capacity	24 x 50 ml
run-up   run-down, braked in sec	69   68
angle   temperature in °C <sup>1)</sup>	90°   6 °C
<b>Cat. No.</b>	<b>4444</b>



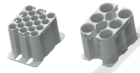
<b>Bucket</b>	
<b>Cat. No.</b>	<b>4490-R/4</b>



<b>Vessels</b>	
capacity in ml	15    50
Ø x L in mm	17x120    29x115
max. RCF <sup>2)</sup>	4,188    4,188
radius in mm	185    185
<b>Cat. No.</b>	<b>tubes with screw cap</b>



<b>Plates</b>				
W x D x H in mm	128x86x44.5	128x86x46	128x86x83	
capacity in ml	-	-	-	
max. RCF <sup>2)</sup>	4,188	4,188	4,188	
radius in mm	185	185	185	
plates per rotor	4	4	4	
<b>Cat. No.</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	



<b>Adapter</b>	
boring Ø x L in mm	17x79    30x79
vessels per rotor	48    24
<b>Cat. No.</b>	<b>4492    4491</b>

— SWING-OUT, 2-PLACE | 5622



<b>Rotor</b>	
max. RPM   max. RCF <sup>2)</sup>	6.200 min <sup>-1</sup>   6.446
max. capacity	12 plates
run-up   run-down, braked in sec	52 / 38
angle   temperature in °C <sup>1)</sup>	90°   9 °C
<b>Cat. No.</b>	<b>5622</b>



<b>Bucket</b>	
<b>Cat. No.</b>	<b>5636-R/2</b>



<b>Plates</b>										
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-	-
capacity in ml	-	-	-	-	-	-	-	-	-	0.2
max. RCF <sup>2)</sup>	6,446	6,446	6,446	6,446	6,446	6,446	6,446	6,446	6,446	6,446
radius in mm	150	150	150	150	150	150	150	150	150	150
plates per rotor	12	10	8	2	2	2	4	2	2	24 x 8
<b>Cat. No.</b>	<b>MTP</b>	<b>MTP</b>	<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plate</b>	<b>PCR plates</b>	<b>PCR strips</b>	

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.  
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

## CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



according to regulation (EU) 2017/746

Company certifications:





***LABORATORY EQUIPMENT MAINTENANCE, REPAIR, CALIBRATION AND SALES***

Established in 1987, Henderson Biomedical is the UK's leading laboratory equipment sales and service provider. Our knowledgeable team can provide you with excellent sales advice on a range of different types of laboratory equipment including centrifuges, refrigerators, freezers and heat sealers.

Henderson Biomedical is also able to provide you with first class after-sales service and calibration of your laboratory equipment. We are an **ISO 17025 (UKAS) accredited calibration test laboratory** and our team of Field Service Engineers cover the whole of the United Kingdom.

Please contact us for more information on the types of equipment we supply and the different after-sales services we can offer.

**Henderson Biomedical**

Unit 3, Swan Close  
Croydon CR0 2DZ  
United Kingdom

**Tel: 020 8663 4610**

**For sales enquiries: [sales@henderson-biomedical.co.uk](mailto:sales@henderson-biomedical.co.uk)  
For all other enquiries: [info@henderson-biomedical.co.uk](mailto:info@henderson-biomedical.co.uk)  
[www.henderson-biomedical.co.uk](http://www.henderson-biomedical.co.uk)**

