EQUIPMENT

The useful addition





HETTICH CYTO SYSTEM

Cytological preparations – safe and economic

Increased demands on security or flexibility as well as time and cost pressures represent a large challenge for today's cytology laboratory. Hettich's three cyto systems are available to tackle these challenges. Reliable, flexible and cost-saving solutions – all IVDR-conform according to regulation (EU) 2017/746.

SYSTEM 1

System 1 is particularly suitable for a high sample throughput thanks to its 12-place rotor. In addition, the autoclavable swing-out rotor with a TÜV certified, bioseal rotor lid provides maximum safety. This system can be used in two proven Hettich benchtop centrifuges, offers comprehensive accessories and is very easy to handle. The end results is an optimal cell presentation.

SYSTEM 2

This system offers you the highest possible flexibility. On the one hand, volumes between 1 and 8 ml can be prepared while up to 8 cell sediments can fit on a single slide. In addition, this accessory can be used in many Hettich centrifuges, often without rotor replacement. This accessory is inexpensive and is characterized by a high, representative cell yield.

SYSTEM 3

System 3 combines the easy handling of System 1 with the flexibility and price advantage of System 2. It can operate in a variety of Hettich centrifuges and, like System 1, requires only a single centrifugation step to arrive at a dry cell pellet. The three different sediment size options give a distinct advantage.



Compatible for models:

UNIVERSAL 320 / 320 R | ROTOFIX 32 A

Benefits:

- Closed, autoclavable rotor with Bio-Seal lid
- 12-place swing-out rotor for maximum sample throughput
- Large selection of cytochambers for single and multiple use. Re-usable cytochambers are autoclavable
- Easy handling
- Good cell representation



Compatible for models:

ROTOFIX 32 A | UNIVERSAL 320 / 320 R | ROTINA 380 / 380 R | ROTINA 420 / 420 R | ROTANTA 460 / 460 R | ROTIXA 500 RS

Benefits:

- Large variety of accessories
- Flexible sample volumes
- Can be used with and without filter cards, depending on application and requirements.
- Very high cell yield



Compatible for models:

ROTOFIX 32 A | ROTINA 420 / 420 R | UNIVERSAL 320 / 320 R

Benefits:

- Easy handling
- Ideal for small sample volumes
- Can be used with and without filter cards, depending on application and requirements (dry or moist cell sediment).



Assembly of a complete cyto insert

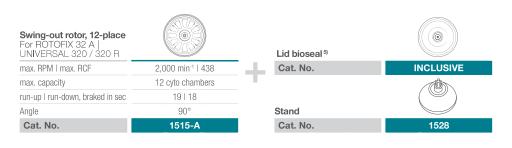






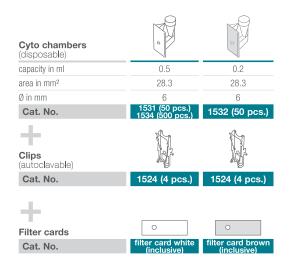
SYSTEM 1 - rotor and accessories

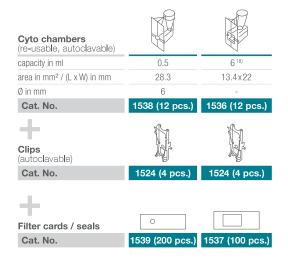
SWING-OUT ROTOR





CYTO CHAMBERS





- Tested by the TÜV in conformity with DIN EN 61010, section 2 020.
- 18) This is the maximum capacity. The recommended quantity to be used per chamber is 4 ml.

SYSTEM 2 - rotors and equipment

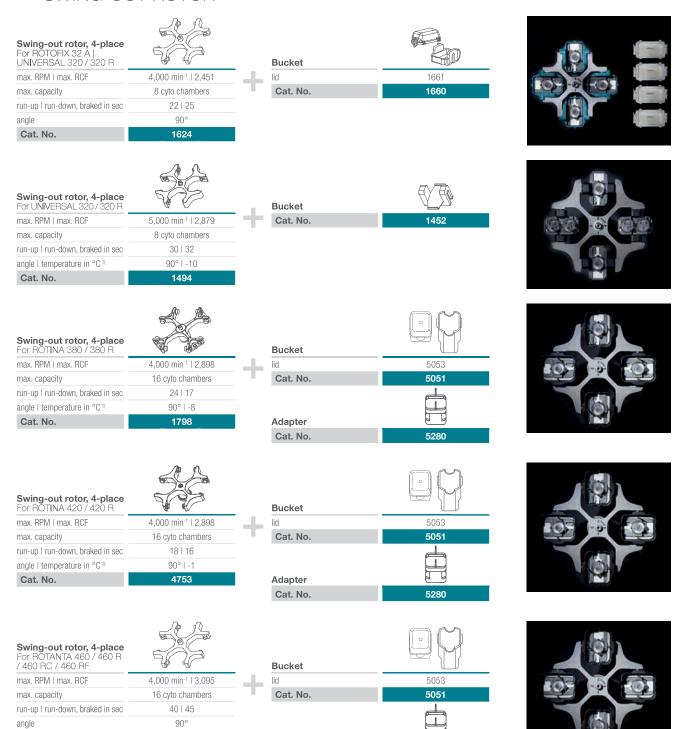
5694

Adapter

Cat. No.

5280

SWING-OUT ROTOR



Cat. No.



	_	Bucket		
4,600 min ⁻¹ 4,069	-	Cat. No.	5628	(A) (A) (A) (A) (A)
16 cyto chambers				
75 88				I
90° +10		Adapter		
5699-R		Cat. No.	5220-A	
		Adapter Cat. No.	5280	
4.000 min 1 2.039		Bucket	1661	
	-			
		Odt. No.	1000	
4,000 min ⁻¹ 2,003 12 cyto chambers 19 18 90° -6 1726	+	Bucket lid Cat. No.	1661 1660	
4,000 min ⁻¹ 3,291 24 cyto chambers 38 46 90° 0	+	Bucket lid Cat. No.	5053 5051	
	16 cyto chambers 75 88 90° +10 5699-R 4,000 min ⁻¹ 2,039 12 cyto chambers 22 25 90° 1626 4,000 min ⁻¹ 2,003 12 cyto chambers 19 18 90° -6 1726	16 cyto chambers 75 88 90° +10 5699-R 4,000 min¹ 2,039 12 cyto chambers 22 25 90° 1626 4,000 min¹ 2,003 12 cyto chambers 19 18 90° -6 1726	4,600 min ⁻¹ I 4,069 16 cyto chambers 75 I 88 90° I +10 5699-R Adapter Cat. No. Adapter Cat. No. Bucket lid Cat. No. 4,000 min ⁻¹ I 2,039 12 cyto chambers 22 I 25 90° 1626 4,000 min ⁻¹ I 2,003 12 cyto chambers 19 I 18 90° I -6 1726 Bucket lid Cat. No.	4,600 min* 4,069 16 cyto chambers 75 188 90° +10 5699-R Adapter Cat. No. 5220-A Adapter Cat. No. 5220-A Adapter Cat. No. 5280 Bucket lid 1661 Cat. No. 12 cyto chambers 22 25 90° 1626 4,000 min* 12,003 12 cyto chambers 19 18 90° -6 1726 Bucket lid 1661 Cat. No. 1660 Bucket lid 1661 Cat. No. 5053 Cat. No. 5053 Cat. No. 5053

Bucket

Cat. No.

Adpater Cat. No.

4,000 min⁻¹ | 3,274

24 cyto chambers 33 | 50

90° I 0

4296

5053 **5051**

Swing-out rotor, 6-place For ROTIXA 500 RS

run-up | run-down, braked in sec angle | temperature in °C 1)

max. RPM | max. RCF

max. capacity

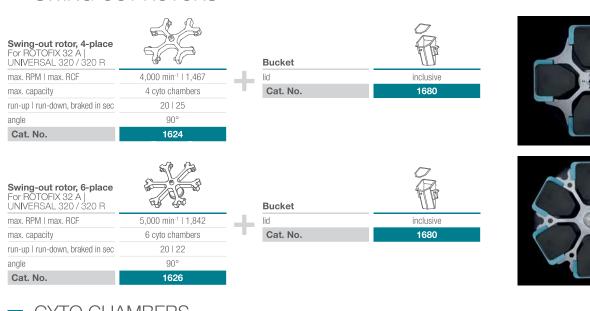
Cat. No.

- CYTO CHAMBERS

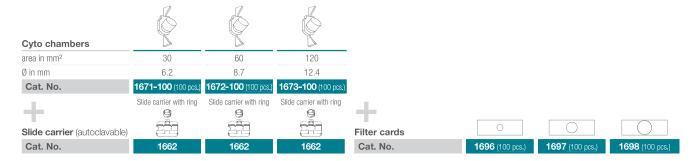
Cyto chambers							
capacity in ml	1	2	4	8	3 x 2	4 x 1	
area in mm²	30	60	120	240	3 x 60	4x30	
Ø in mm	6.2	8.7	12.4	17.5	3x8.7	4x6.2	
Cat. No.	1663-100 (100 pcs.)	1664-100 (100 pcs.)	1665-100 (100 pcs.)	1666-100 (100 pcs.)	1667-100 (100 pcs.)	1668-100 (100 pcs.)	
Slide carrier (autoclavable)	Slide carrier with ring with ring chambers	Slide carrier with ring with ring chambers Graph Company of two chambers Graph Company of two chambers Graph Company of two chambers	Slide carrier with ring with ring chambers	Slide carrier with ring with ring for two chambers	Slide carrier with ring with ring chambers Slide carrier for two chambers	Slide carrier with ring shapers Slide carrier for two chambers Slide carrier for two chambers Slide carrier for two chambers	
Cat. No.	1662 1670	1662 1670	1662 1670	1662 1670	1662 1670	1662 1670	
Filter cards for 1662 Cat. No.	1675 (200 pcs.)	1675 (200 pcs.)	1675 (200 pcs.)	1676 (100 pcs.)	1677 (100 pcs.)	1678 (100 pcs.)	
Filter cards for 1670	() () () () () () () () () ()	(200 pts.)	(200 pcs.)	(100 pcs.)	8 8	1070 (100 p.s.)	
Cat. No.	1692 (200 pcs.)	1692 (200 pcs.)	1692 (200 pcs.)	1691 (100 pcs.)	1694 (100 pcs.)	1693 (100 pcs.)	

SYSTEM 3 – rotors and equipment

SWING-OUT ROTORS



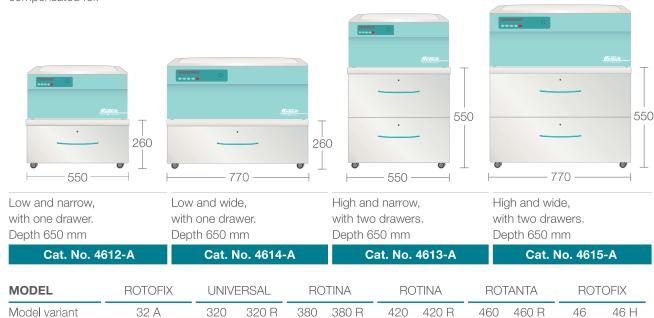
- CYTO CHAMBERS





ROLLING CABINETS

All rolling cabinets are of sturdy design and feature castors and two locks. Any vibrations of the centrifuge are safely compensated for.



[•] Roling cabinet is compatible for the marked model.

4612-A + 4613-A

4614-A + 4615-A

ACCESSORIES FOR CENTRIFUGING BLOOD BAG SYSTEMS



HettLiner

inserts using HettLiners. After centrifuging, they can be removed by their loops without disturbing the sediment.



Compensatory weights (set) Balancing inserts*

Blood bags can be secured in If blood bag carriers are not compensatory weights can be every carrier of the rotor, used to make up the difference. empty carriers can be filled One set includes:

40 balancing weights, 2 g each; weights supplied with the 20 balancing weights, 5 g each; inserts may be used for fine 10 balancing weights, 10 g each; balancing. 5 balancing weights, 20 g each; 5 balancing weights, 40 g each



In case there are not enough filled to the same weight, then blood bag systems to occupy with balancing inserts. Taring

> **4584-A** for insert 4559-A **45**87-A for insert 4592-B **4589-A** for insert 4516-A



Loading aid

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Secure your samples and avoid accidental spillage with the convenient Loading aid for centrifuge inserts. The Hettich Loading aid allows users to confidently hold and manage their samples without the risk of the inserts toppling over.

Cat. No. 4509

Cat. No. 4566

Cat. No. 4564

^{*} Can only be used for ROTO SILENTA 630 RS inserts.