

CSpin

Effective Space & validated Racks



Revision history

Version	Date	Author	Remarks
a01.01 <i>released</i>	03.03.2025	BN/TS	initial version

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Introduction

The following document describes the possibilities and limitations of the centrifuge module (CSpin).

Please note that the illustrations in this manual are not binding and there is no guarantee for complete and correct descriptions of validated racks.

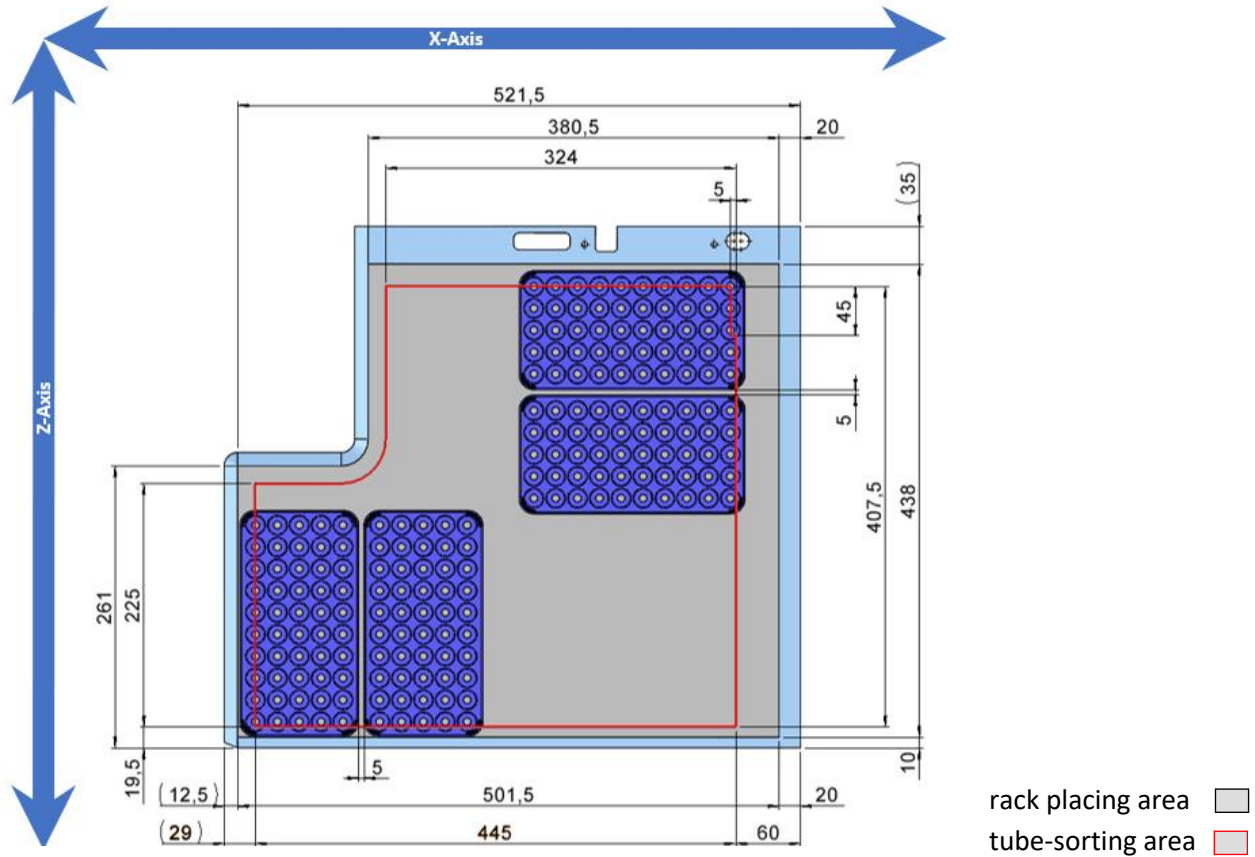
The whole throughput and so the performance of the CSpin always depends on the configuration of the device, the sample tube mix and the racks used.

We are in a constant state of further development. If you cannot find your preferred rack, there is also the possibility to check and validate further racks that are not listed in this document.

Please contact us if you are looking for an individual solution. We are looking forward to adding new racks to our modules.

Effective Space on the Rack Ground Plate

Standard



Rack and Tray Dimensions

Rack Dimensions	
H	rack height [mm] with largest tube ≤ 155 mm
- Further dimensions such as rack length, width, height and inner diameter of rack position can be found in the following list of validated racks - all dimensions in mm	

Tray Dimensions	
- The maximum length and width dimensions (l x b) of the currently available trays can also be found in the following list. - all dimensions in mm	

Validated Racks

Abbott

Alinity H Racks

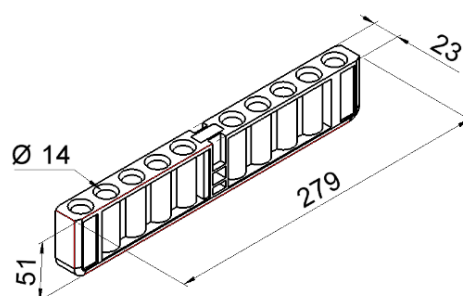


- additional tray necessary
- dimensions of the tray may vary

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
○ 2 rack tray (8105)	326 x 49,4
○ 5 rack tray (8104)	326 x 117,6
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

rack dimensions [mm]



Validated Racks

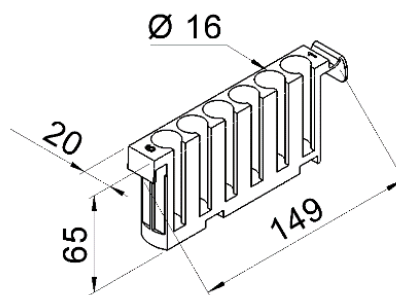
Abbott

Alinity Racks



- additional tray necessary
- dimensions of the tray may vary

rack dimensions [mm]



currently available trays

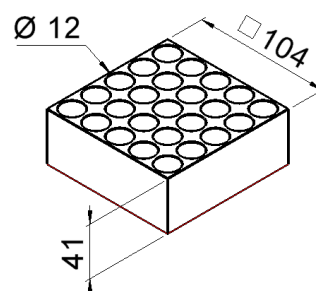
output racks (Art.-No)	dimensions l x b [mm]
○ 10 rack tray (8149)	241,4 x 129,2
○ -	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

Flexrack



- additional tray optional
- input racks are held magnetically (Art.-No. 9001)

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
○ 2 rack tray (7701)	259,8 x 108,5
○ 4 rack tray (7977)	489,4 x 108,5
input racks (Art.-No)	dimensions l x b [mm]
○ single rack (9001)	104 x 104

Validated Racks

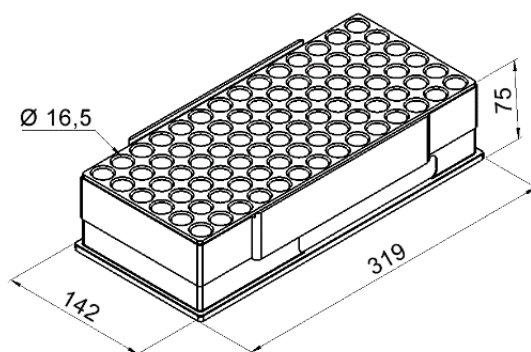
Beckman Coulter

B43843-AB Rack (84 Positions)



- no tray needed
- max. tube length 109 mm
- note the position of the sensor
- Clamping mechanism required for input racks (Art.-No. 9010)

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

○ no tray needed	-
------------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

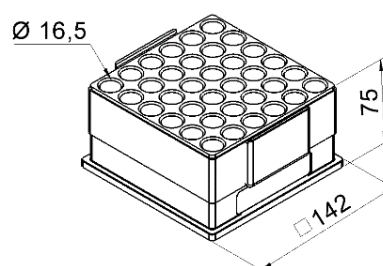
○ single rack (9010)	319 x 142
----------------------	-----------

B43840-AB Rack (36 Positions)



- no tray needed
- max. tube length 109 mm
- note the position of the sensor
- Clamping mechanism required for input racks (Art.-No. 9010)

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

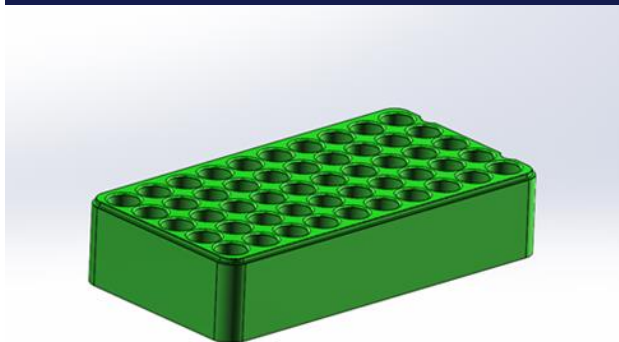
input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

○ single rack	142 x 142
---------------	-----------

Validated Racks

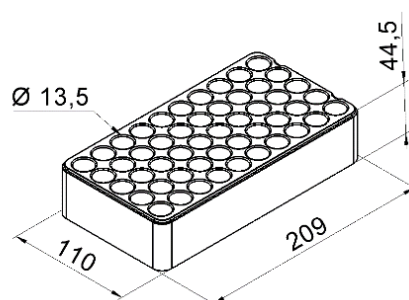
Beckman Coulter

Automate Rack P2500



- no tray needed

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

n.a.	-
------	---

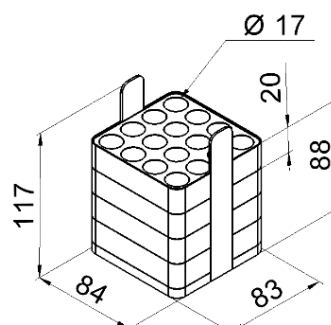
Eppendorf

5810 - adapter: 12 & 16 sample



- additional tray optional when using more than one rack per module
- without metal housing

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

○ 2 rack tray (7621)	239,2 x 87,9
----------------------	--------------

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

n.a.	-
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Validated Racks

Hettich

Rack 5248 for Centrifuge

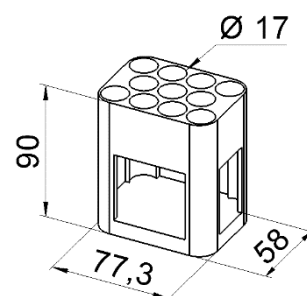


- additional tray optional when using more than one rack per module
- dimensions of the tray may vary

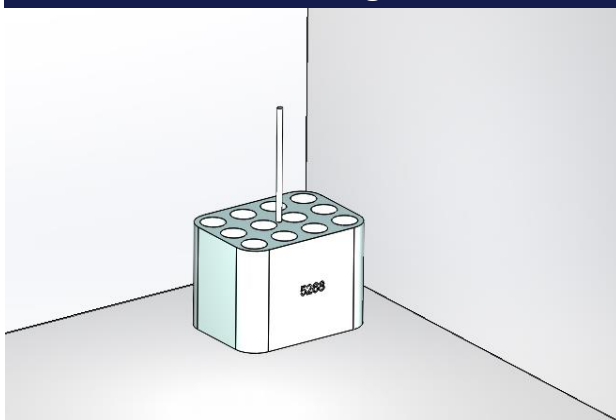
currently available trays

output racks (Art.-No)	dimensions l x b [mm]
○ 2 rack tray (7216)	222,7 x 60,2
○ 4 rack tray (7414)	223,2 x 117,8
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

rack dimensions [mm]



Rack 5268 for Centrifuge

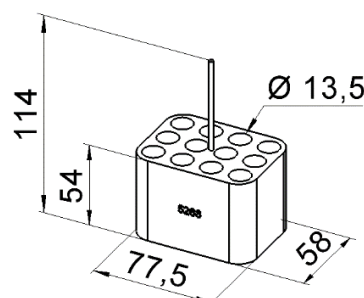


- additional tray optional when using more than one rack per module
- dimensions of the tray may vary

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
○ 2 rack tray (7216)	222,7 x 60,2
○ 4 rack tray (7414)	223,2 x 117,8
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

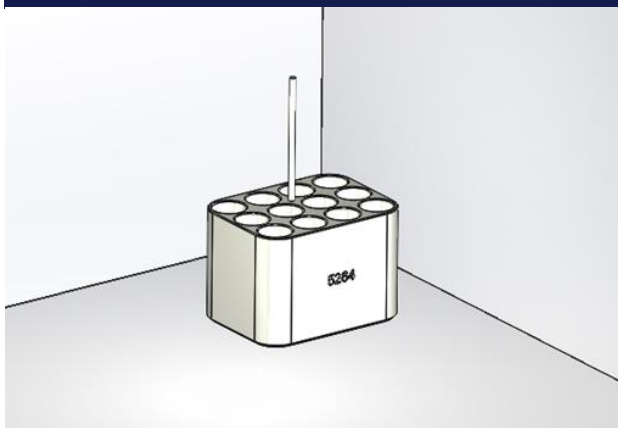
rack dimensions [mm]



Validated Racks

Hettich

Rack 5264 for Centrifuge

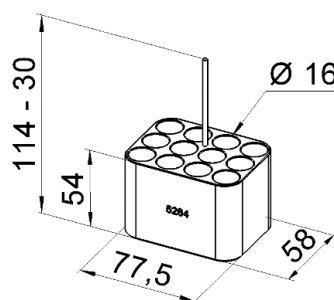


- additional tray optional when using more than one rack per module
- dimensions of the tray may vary
- shorten the bars by 30 mm

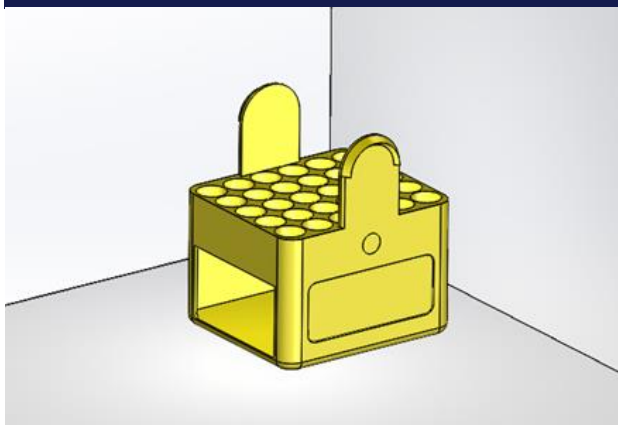
currently available Trays

output racks (Art.-No)	dimensions l x b [mm]
○ 2 rack tray (7216)	222,7 x 60,2
○ 4 rack tray (7414)	223,2 x 117,8
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

Rack-dimensions [mm]



Rack 4214 for Centrifuge

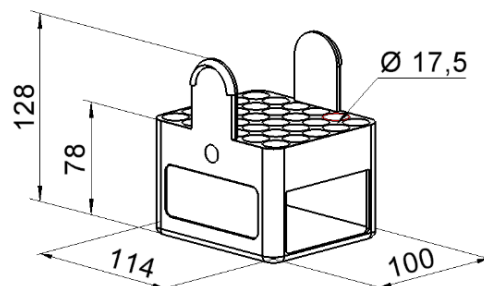


- no tray needed

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

rack dimensions [mm]



Validated Racks

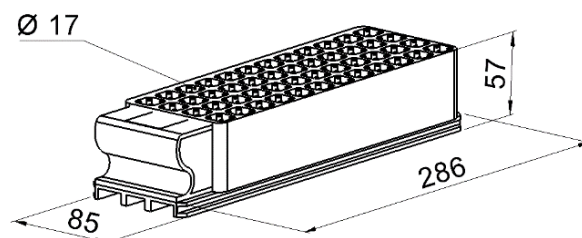
Inpeco Automation

Inpeco Rack transparent (CS119)



- no tray needed
- Clamping mechanism required for input racks (Art.-No. 9009)

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

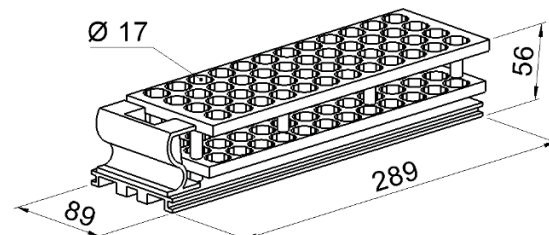
○ single rack (9009)	286 x 85
----------------------	----------

Inpeco Rack black (484280000)



- no tray needed
- Clamping mechanism required for input racks (Art.-No. 9009)

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

○ single Rack (9009)	289 x 89
----------------------	----------

Validated Racks

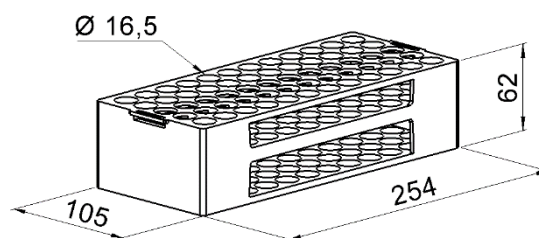
Maksense

iRack



- no tray needed

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

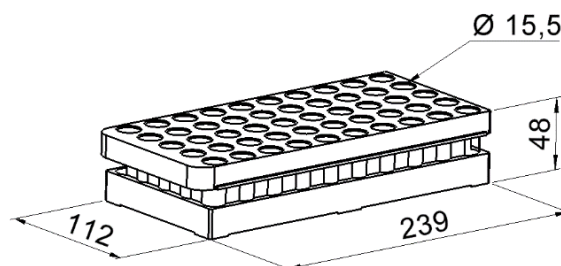
Roche Automation

Cobas 8100 Rack



- no tray needed

rack dimensions [mm]



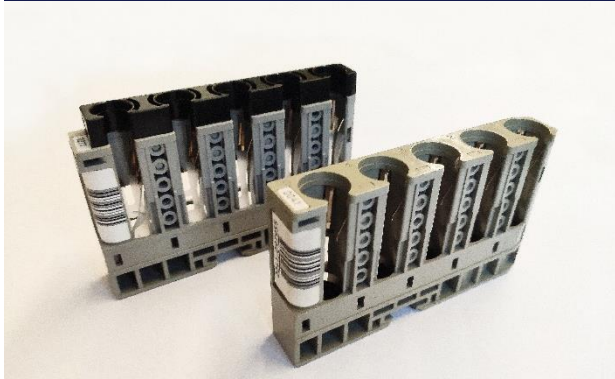
currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

Validated Racks

Roche Automation

Roche Cobas Rack (Hitachi 5 Pos.)

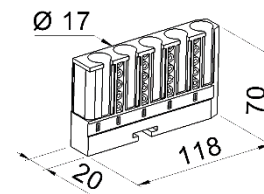


currently available trays

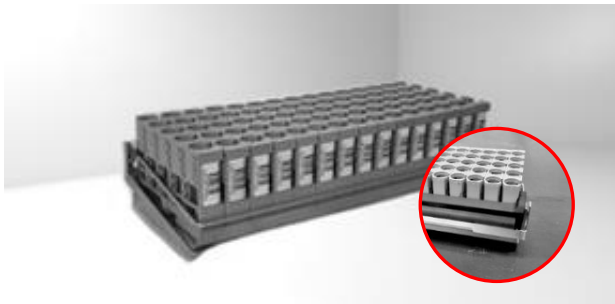
○ see Picture 1 - 3 all trays are for 15 racks

- additional tray necessary
- dimensions of the tray may vary
- largest tray is for 15 racks
- input racks: n.a.

rack dimensions [mm]



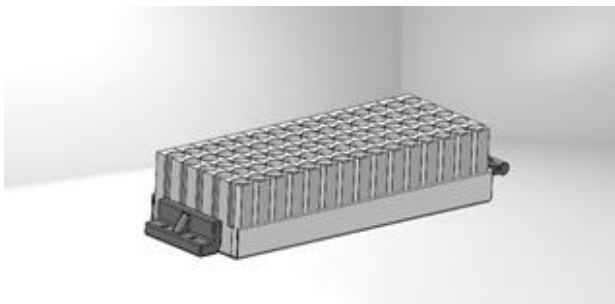
① original Roche tray (with clamping bracket)



- to minimize the clearance of the single racks in the tray, use our T&O fixing wedge (please contact us).
- the upper diameter reduction attachment (racks) should be avoided
- unsuitable for barcode alignment

Tray Dimensions l x b [mm]: 315 x 140

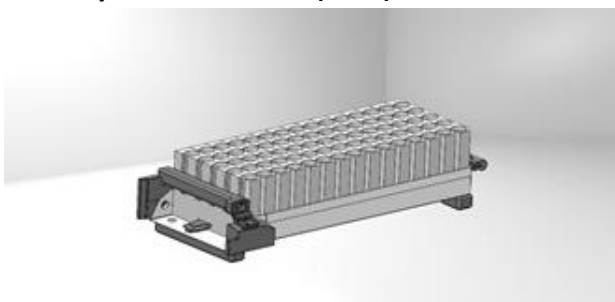
② tray open on one side incl. stop (7346)



- Racks must be transferred to original Roche trays after tube placement
- the single racks can be removed upwards (no fixation).
- stop on rack plate optional

Tray Dimensions l x b [mm]: 346 x 123

③ tray with fixed racks (7802)



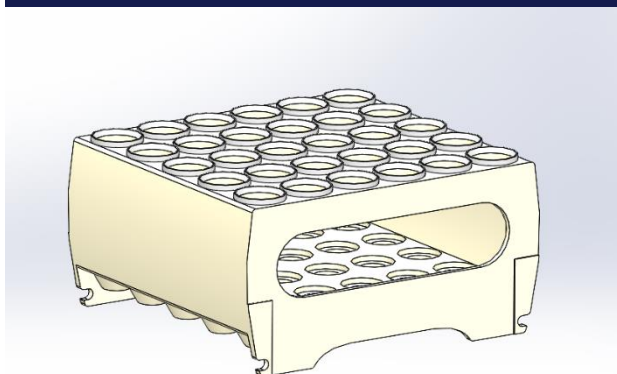
- Racks must be transferred to original Roche trays after tube placement
- the single racks are fixed in the tray
- suitable for replacing the original Roche trays on RS2 rack plate

Tray Dimensions l x b [mm]: 360 x 147

Validated Racks

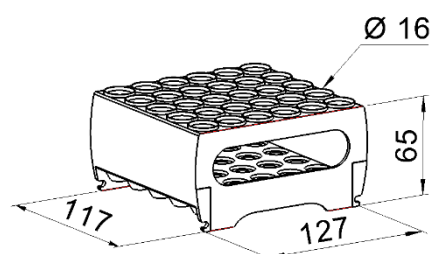
Roche Automation

Roche Rack (30 Pos.)



- no tray needed
- Clamping mechanism required for input racks (Art.-No. 9011)

rack dimensions [mm]



currently available trays

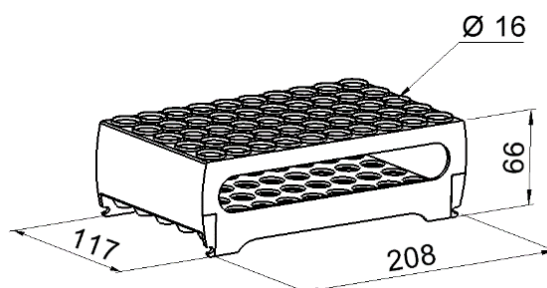
output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
○ single rack (9011)	127 x 117

Roche Rack (50 Pos.)



- no tray needed
- Clamping mechanism required for input racks (Art.-No. 9011)

rack dimensions [mm]



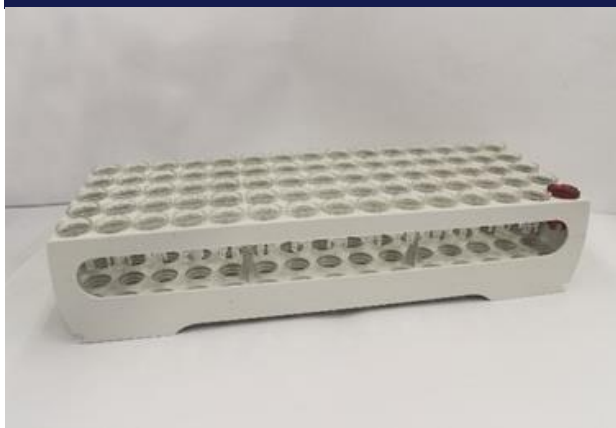
currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
○ single rack (9011)	208 x 117

Validated Racks

Roche Automation

Roche Rack (75 Pos.)

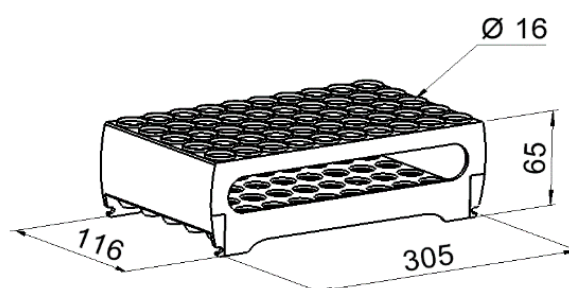


- no tray needed
- Clamping mechanism required for input racks (Art.-No. 9011)

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
○ single Rack (9011)	305 x 116

rack dimensions [mm]



Sarstedt

S-Monovette - Rack D13

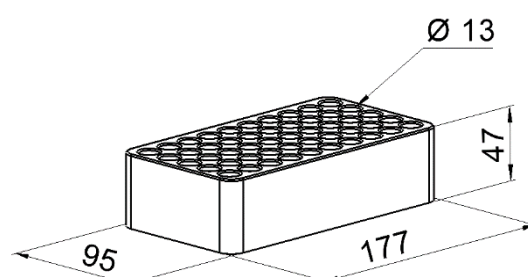


- no tray needed

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

rack dimensions [mm]



Validated Racks

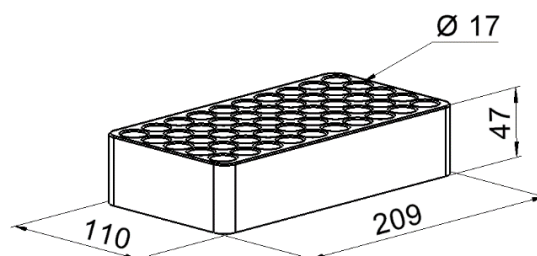
Sarstedt

S-Monovette - Rack D17



- no tray needed

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

n.a.	-
------	---

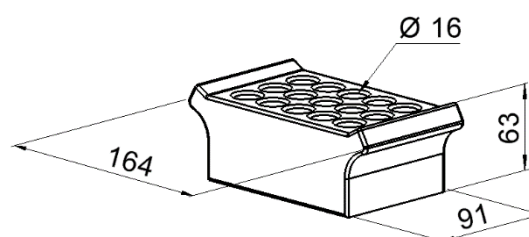
Siemens Healthineers

Atellica Rack (15 Pos.)



- no tray needed

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

no tray needed	-
----------------	---

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

n.a.	-
------	---

Validated Racks

Siemens Healthineers

Atellica Rack (55 Pos.)

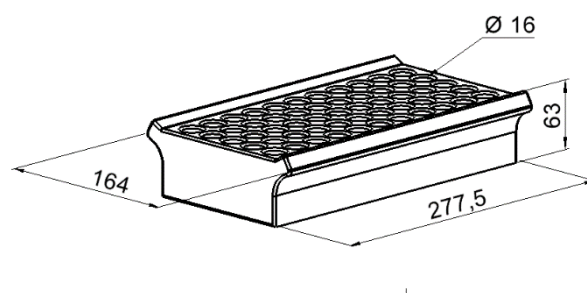


- no tray needed

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

rack dimensions [mm]



Advia Rack

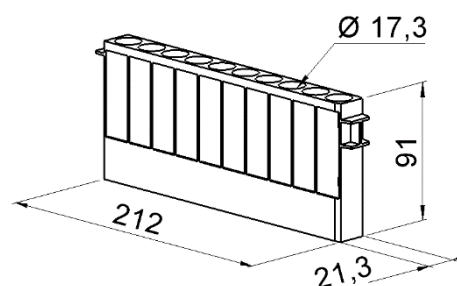


- additional tray necessary
- dimensions of the tray may vary
- fitting of tubes with flat bottom must be checked

currently available trays

output racks (Art.-No)	dimensions l x b [mm]
○ 3 rack tray (7814)	255,7 x 68,4
○ 10 rack tray (7351)	252,7 x 217,5
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

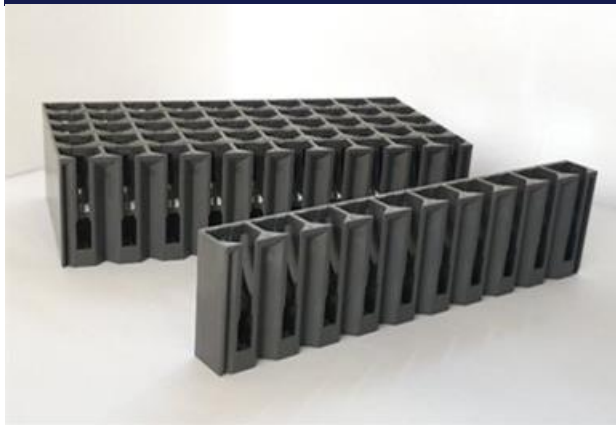
rack dimensions [mm]



Validated Racks

STIWA

Transport Racks

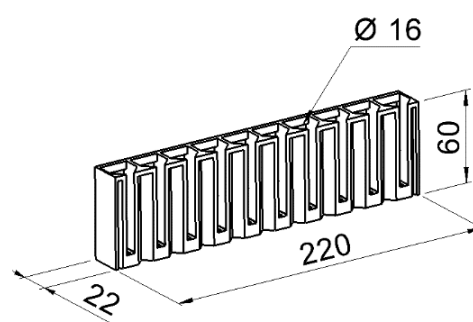


currently available trays

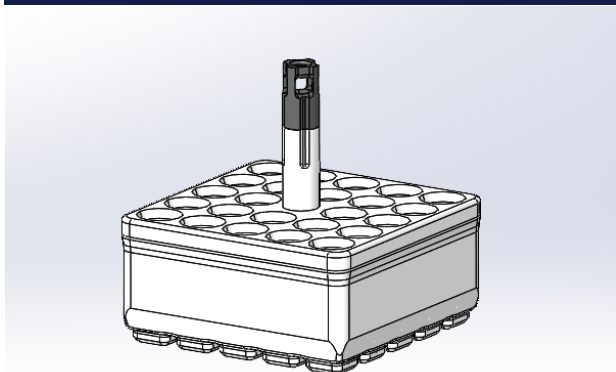
output racks (Art.-No)	dimensions l x b [mm]
○ 5 rack tray (7348)	228,8 x 152,9
○ 15 rack tray (7461)	370,4 x 228,8
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

- additional tray necessary
- dimensions of the tray may vary

rack dimensions [mm]



CSpin Centrifuge Rack

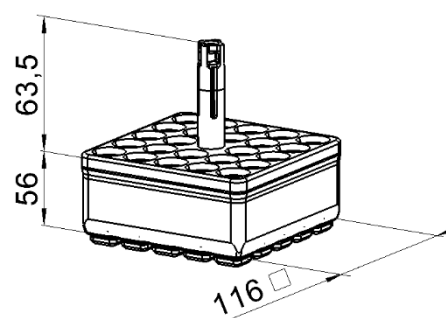


currently available trays

output racks (Art.-No)	dimensions l x b [mm]
no tray needed	-
input racks (Art.-No)	dimensions l x b [mm]
○ single rack (7124)	116 x 116

- no tray needed
- input racks are held magnetically (Art.-No. 7124)

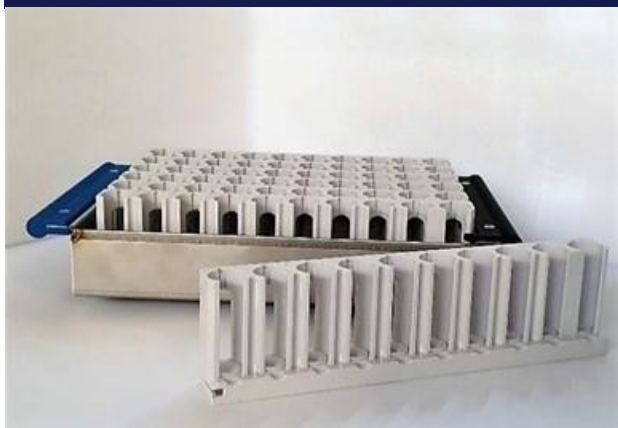
rack dimensions [mm]



Validated Racks

Sysmex

Racks for Hematology Analyzer



- additional tray necessary
- dimensions of the tray may vary

rack dimensions [mm]

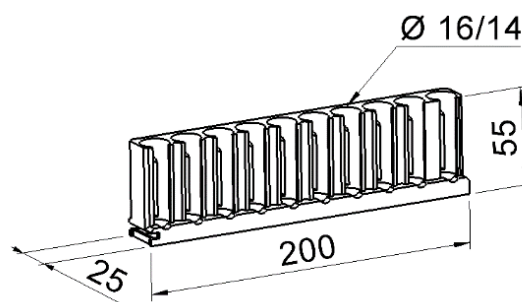
currently available trays

output racks (Art.-No)	dimensions l x b [mm]
------------------------	-----------------------

○ 3 rack tray (7365)	250,6 x 85,2
○ 4 rack tray (7363)	250,1 x 110,4
○ 5 rack tray (7347)	250,1 x 135,6
○ 6 rack tray (7350)	258,1 x 154,9
○ 8 rack tray (8221)	254,2 x 205,3
○ 13 rack tray (7555)	370,4 x 210,8

input racks (Art.-No)	dimensions l x b [mm]
-----------------------	-----------------------

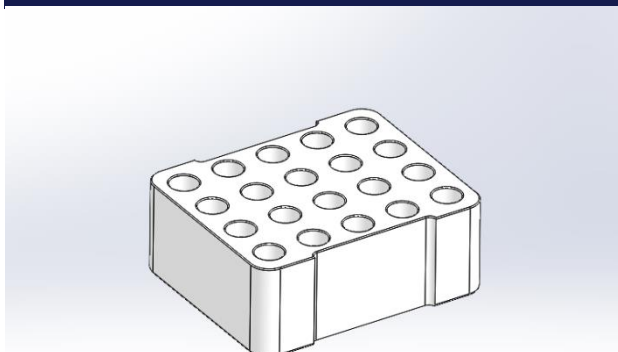
n.a.	-
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Validated Racks

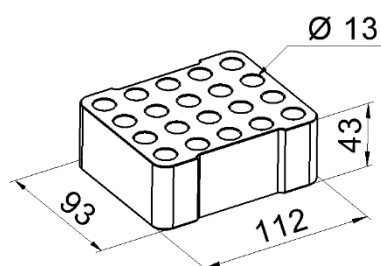
Thermo Fisher

Centrifuge Rack



- additional tray optional when using more than one rack per module
- dimensions of the tray may vary

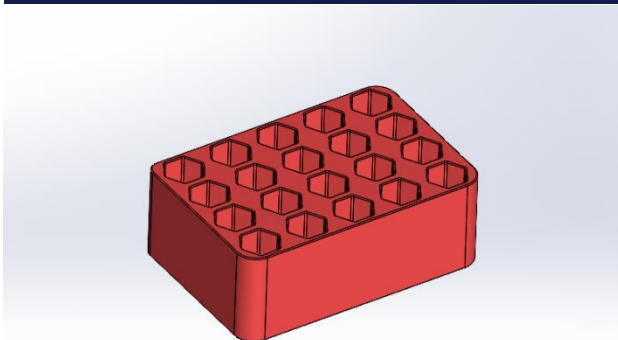
rack dimensions [mm]



currently available trays

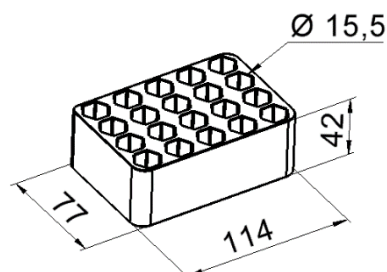
output racks (Art.-No)	dimensions l x b [mm]
on request	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

TCA Standard Rack



- additional tray optional when using more than one rack per module
- dimensions of the tray may vary

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
n.a.	-
input racks (Art.-No)	dimensions l x b [mm]
n.a.	-

Validated Racks

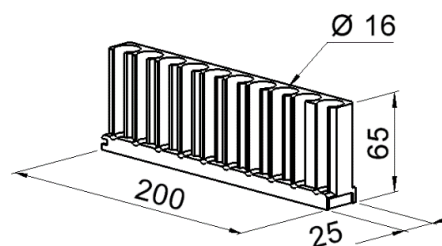
Tosoh

AIA-Racks



- additional tray necessary
- dimensions of the tray may vary

rack dimensions [mm]



currently available trays

output racks (Art.-No)	dimensions l x b [mm]
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○ see Sysmex trays	-
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input racks (Art.-No)	dimensions l x b [mm]
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○ n.a.	-
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