

Rotors & Accessories Selection Guide

Angle Rotors for CAX-571

2ml



CA-1 [Click Here](#)
2ml×18
15,000rpm : 17,860G



CA-10 [Click Here](#)
2ml×24
13,500rpm : 17,730G



CA-15 [Click Here](#)
[Outer line] 2ml×18
15,000rpm : 19,120G
[Inner line] 0.5ml×12
15,000rpm : 14,840G
[Middle line] 0.2ml×12
15,000rpm : 13,080G



CA-5 [Click Here](#)
2ml×24
15,000rpm : 21,130G

2ml



CA-6 [Click Here](#)
2ml×36
[Outer line] 2ml×18
15,000rpm : 21,130G
[Inner line] 2ml×18
15,000rpm : 18,620G

5ml

Rotor for 5ml Conical Tube



CA-12 [Click Here](#)
5ml×12
15,000rpm : 20,630G
*Recommend Tube : TOMY 5ml tube,
PT0050-11 for CA-12.

50ml

Rotor for Conical Tube



CA-8 [Click Here](#)
50ml×4
14,000rpm : 18,410G
or 15ml×4
14,000rpm : 17,750G



CA-16 [Click Here](#)
50ml×8
13,100rpm : 20,150G

50ml

Rotor for Conical Tube and
5ml BDF (FACS tube)



CA-14HS [Click Here](#)
50ml×4
15,000rpm : 21,130G
or 5ml×4
15,000rpm : 16,860G

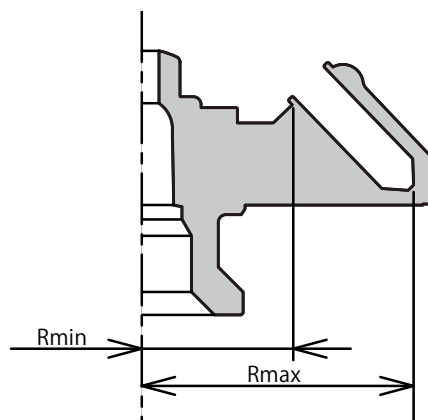
* The above specifications show Max. speed, Max. RCF, and Max. capacity. These values may change according to combination of centrifuge, rotor, bucket, adapter, and tube.

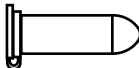
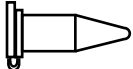


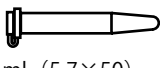

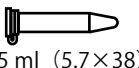

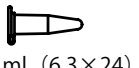

HS has been tested and certified by the Health Protection Agency (HPA, UK) to be compliant with the International Standard (Annex AA of the IEC 61010-2-020), meets requirements for biohazard safety.

HS adopted a hermetically sealed structure equivalent to **HS** rotors designed and tested in accordance with the International Standard (Annex AA of the IEC 61010-2-020) to offer excellent sealing performance.

CA-1

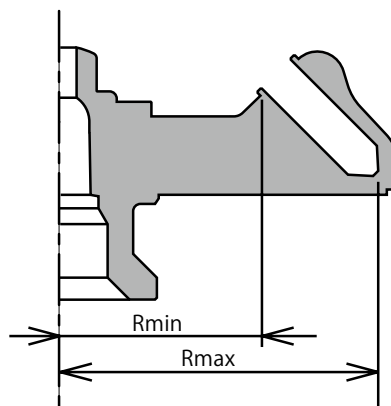
Applicable model	CAX-571
Max. speed	15,000 rpm
Max. RCF	17,860 G
Tube angle	45 degree
Max. radius	71 mm
Min. radius	40 mm
Rotor capacity	2ml×18

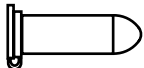
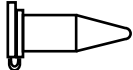
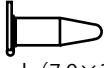

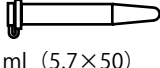

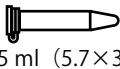




Applicable Tube to CA-1

Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	18	71	40	17,860	1
 1.5 ml (11×41)	—	18	69	40	17,360	1
 0.5 ml (7.9×31)	 MA006-01	18	62	40	15,600	1
 0.4 ml (5.7×50)	 A-004	18	70	40	17,610	1
 0.25 ml (5.7×38)	 A-004	18	62	40	15,600	1
 0.2 ml (6.3×24)	 MA002-01PC	18	54	40	13,590	1

CA-10

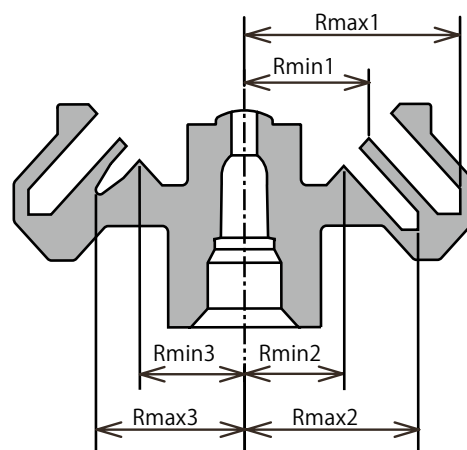
Applicable model	CAX-571
Max. speed	13,500 rpm
Max. RCF	17,730 G
Tube angle	45 degree
Max. radius	87 mm
Min. radius	55 mm
Rotor capacity	2ml×24


Applicable Tube to CA-10

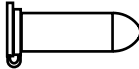
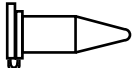
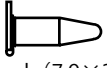

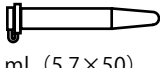

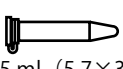



Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	24	87	55	17,730	1
 1.5 ml (11×41)	—	24	86	55	17,530	1
 0.5 ml (7.9×31)	 MA006-01	24	78	55	15,900	1
 0.4 ml (5.7×50)	 A-004	24	86	55	17,530	1
 0.25 ml (5.7×38)	 A-004	24	77	55	15,690	1
 0.2 ml (6.3×24)	 MA002-01PC	24	69	55	14,060	1

CA-15

Applicable model	CAX-571
Max. speed	15,000 rpm
Max. RCF	19,120 G
Tube angle	45 degree
Max. radius 1 (Rmax1)	76 mm
Max. radius 2 (Rmax2)	61 mm
Max. radius 3 (Rmax3)	52 mm
Min. radius 1 (Rmin1)	44 mm
Min. radius 2 (Rmin2)	35 mm
Min. radius 3 (Rmin3)	37 mm
Rotor capacity	2ml×18 (outer line)
	0.5ml×12 (inner line)
	0.2ml PCR tube×12 (middle line)

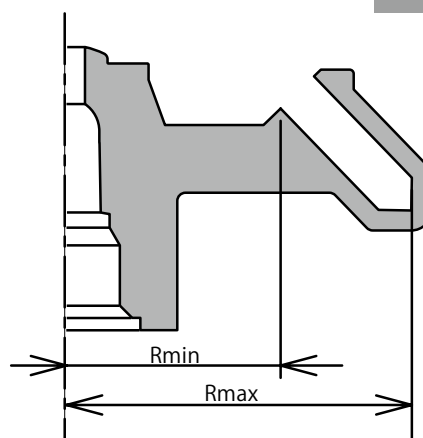


Applicable Tube to CA-15

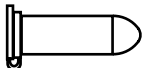
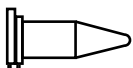
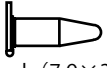

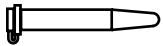

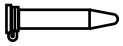



Tube (φ×L [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	18 (outer line)	76	44	19,120	1
 1.5 ml (11×41)	—	18 (outer line)	74	44	18,620	1
 0.5 ml (7.9×31)	—	12 (inner line)	59	35	14,840	1
	 MA006-01	18 (outer line)	67	44	16,860	1
 0.4 ml (5.7×50)	 MA004-01	18 (outer line)	76	44	19,120	1
 0.25 ml (5.7×38)	 MA004-01	18 (outer line)	67	44	16,860	1
 0.2 ml (6.3×24)	—	12 (middle line)	52	37	13,080	1
	 MA002-01PC	18 (outer line)	58	44	14,590	1

CA-5

Applicable model	CAX-571
Max. speed	15,000 rpm
Max. RCF	21,130 G
Tube angle	44 degree
Max. radius	84 mm
Min. radius	52 mm
Rotor capacity	2ml×24

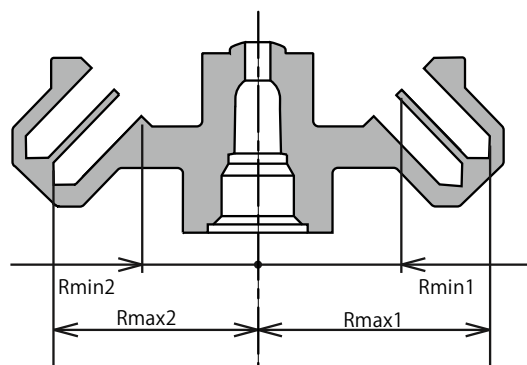


Applicable Tube to CA-5

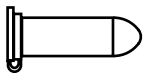
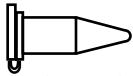
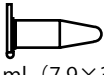

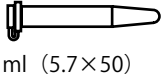

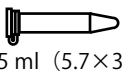



Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	24	84	52	21,130	1
 1.5 ml (11×41)	—	24	82	52	20,630	1
 0.5 ml (7.9×31)	 MA006-01	24	74	52	18,620	1
 0.4 ml (5.7×50)	 MA004-01	24	84	52	21,130	1
 0.25 ml (5.7×38)	 MA004-01	24	75	52	18,870	1
 0.2 ml (6.3×24)	 MA002-01PC	24	66	52	16,610	1

CA-6

Applicable model	CAX-571
Max. speed	15,000 rpm
Max. RCF	21,130 G
Tube angle	44 degree
Max. radius 1 (Rmax1)	84 mm
Max. radius 2 (Rmax2)	74 mm
Min. radius 1 (Rmin1)	52 mm
Min. radius 2 (Rmin2)	42 mm
Rotor capacity	2ml×36

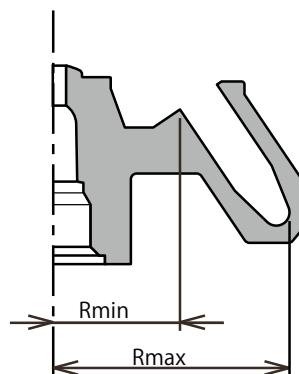


Applicable Tube to CA-6


Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	18 (outer line)	84	52	21,130	1
		18 (inner line)	74	42	18,620	1
 1.5 ml (11×41)	—	18 (outer line)	82	52	20,630	1
		18 (inner line)	72	42	18,120	1
 0.5 ml (7.9×31)	 MA006-01	18 (outer line)	74	52	18,620	1
		18 (inner line)	64	42	16,100	1
 0.4 ml (5.7×50)	 MA004-01	18 (outer line)	83	52	20,880	1
		18 (inner line)	73	42	18,370	1
 0.25 ml (5.7×38)	 MA004-01	18 (outer line)	74	52	18,620	1
		18 (inner line)	64	42	16,100	1
 0.2 ml (6.3×24)	 MA002-01PC	18 (outer line)	66	52	16,610	1
		18 (inner line)	56	42	14,090	1

CA-12

Applicable model	CAX-571
Max. speed	15,000 rpm
Max. RCF	20,630 G
Tube angle	34 degree
Max. radius	82 mm
Min. radius	44 mm
Rotor capacity	5ml conical tube × 12



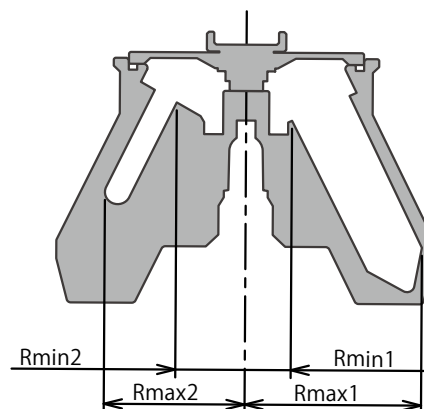
Applicable Tube to CA-12

Tube						Actual capacity [ml]	Max. Number	Allowable speed [rpm]	Max.RCF [G] (Radius[mm])	BART Code	Remarks
Nominal capacity [ml]	Mfr abbr.	Model Name(Material)	Bottom Shape	Tube Dimension (φ × L [mm])	Allowable RCF [G]						
 5ml	TOM	PT0050-11(PP)	C	φ 15 × 59	-	3.5	12	15,000	20,630(82)	1	

* Recommend Tube : TOMY 5ml tube, PT0050-11 for CA-12.

CA-14HS

Applicable model	CAX-571	
Max. speed	15,000 rpm	
Max. RCF	21,130 G	
Tube angle	25 degree	
Max. radius 1 (Rmax1)	84 mm	
Max. radius 2 (Rmax2)	67 mm	
Min. radius 1 (Rmin1)	22 mm	
Min. radius 2 (Rmin2)	33 mm	
Rotor capacity	50ml conical tube × 4	* 1
	5ml × 4	* 1



*1 Different types of tubes cannot be loaded together.

Applicable Tube to CA-14HS

Tube						Actual capacity [ml]	Max. Number	Allowable speed [rpm]	Max.RCF [G] (Radius[mm])	BART Code	Remarks			
Nominal capacity [ml]	Mfr abbr.	Model Name(Material)	Bottom Shape	Tube Dimension (φ×L [mm])	Allowable RCF [G]									
 50ml	COR	430291(PP)	C	φ29×116	15,500	35	4	15,000	21,130(84)	1	* 2			
		430304(PET)	C	φ29×116	3,600			6,100	3,500(84)					
		430829(PP)	C	φ29×116	15,500									
	FLC	352070(PP)	C	φ30×115	9,400									
	IWA	2343-050(PP)	C	φ29×117	9,400									
	NUC	339652(PP)	C	φ30×115	17,000				15,000		21,130(84)	* 2		
		362696(PP)	C	φ26.6×113.7	9,500									
	INA	3182-345(PP)	C	φ29×115	15,000									
		3181-345(PP)	C	φ29×115	15,000									
 15ml	COR	430053(PET)	C	φ16×120	3,600	10.5	4	6,300	3,550(80)	1				
		430766(PP)	C	φ16×120	12,000			15,000	20,130(80)		* 2			
		430791(PP)	C	φ16×120	12,000			15,000	20,130(80)		* 4			
	FLC	352095(PS)	C	φ17×120	1,800			4,400	1,730(80)					
		352196(PP)	C	φ17×120	6,000			15,000	20,130(80)		* 2			
	NUC	339650(PP)	C	φ17×120	10,500			10,900	10,630(80)		* 3			
		INA	3132-345(PP)	C	φ17×118			15,000	15,000		20,130(80)			
			3131-345(PP)	C	φ17×118			15,000	15,000		20,130(80)	* 2		
 5ml	FLC	352002(PP)	R	φ12×75	3,000	3.5	4	6,300	2,970(67)	1				
		352063(PP)	R	φ12×75	3,000			6,300	2,970(67)					
		352008(PS)	R	φ12×75	1,400			4,300	1,390(67)					
		352054(PS)	R	φ12×75	1,400			4,300	1,390(67)					
		352235(PS)	R	φ12×75	1,400			4,300	1,390(67)					

* Different types of tubes cannot be loaded together.

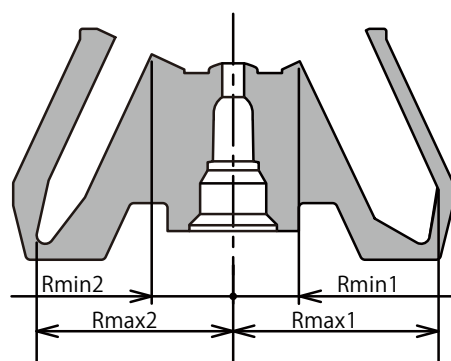
*2 Tube strength may be degraded under some use conditions, such as solvent, set temperature, manufacturer outside recommendation and operation frequency, which can cause damage to the tube. Perform a trial run under actual operating conditions before use and verify that tubes are in good condition with no cracks or damage.

*3 When centrifuging at 15,000rpm, set temperature should not exceed 25°C.

*4 When centrifuging at 15,000rpm, set temperature should not exceed 10°C.

CA-8

Applicable model	CAX-571
Max. speed	14,000 rpm
Max. RCF	18,410 G
Tube angle	25 degree
Max. radius 1 (Rmax1)	84 mm
Max. radius 2 (Rmax2)	81 mm
Min. radius 1 (Rmin1)	27 mm
Min. radius 2 (Rmin2)	34 mm
Rotor capacity	50ml conical tube × 4 * 1
	15ml conical tube × 4 * 1



* 1 Different types of tubes cannot be loaded together.

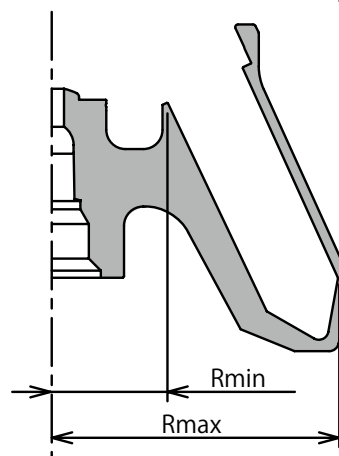
Applicable Tube to CA-8

Tube						Actual capacity [ml]	Max. Number	Allowable speed [rpm]	Max.RCF [G] (Radius[mm])	BART Code	Remarks
Nominal capacity [ml]	Mfr abbr.	Model Name(Material)	Bottom Shape	Tube Dimension (φ × L [mm])	Allowable RCF [G]						
 50ml	COR	430291(PP)	C	φ 29 × 116	15,500	35	4	10,000	9,390(84)	1	
		430829(PP)	C	φ 29 × 116	15,500	35	4	10,000	9,390(84)	1	
		430304(PET)	C	φ 29 × 116	3,600	35	4	6,100	3,500(84)	1	
	FLC	352070(PP)	C	φ 30 × 115	9,400	35	4	10,000	9,390(84)	1	
 35ml	NAL	3148-0050(PPCO)	C	φ 28.6 × 113.8	50,000	24.5	4	14,000	18,410(84)	1	
 15ml	COR	430766(PP)	C	φ 16 × 120	12,000	10.5	4	11,500	11,980(81)	1	
	COR	430791(PP)	C	φ 16 × 120	12,000	10.5	4	11,500	11,980(81)	1	
	FLC	352196(PP)	C	φ 17 × 120	6,000	10.5	4	8,100	5,940(81)	1	
	COR	430053(PET)	C	φ 16 × 120	3,600	10.5	4	6,300	3,600(81)	1	
	FLC	352095(PS)	C	φ 17 × 120	1,800	10.5	4	4,400	1,750(81)	1	



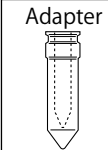
* Different types of tubes cannot be loaded together.

CA-16

Applicable model	CAX-571
Max. speed	13,100 rpm
Max. RCF	20,150 G
Tube angle	25 degree
Max. radius	105 mm
Min. radius	42 mm
Rotor capacity	50ml conical tube×8



Applicable Tube to CA-16

Tube						Actual capacity [ml]	Max. Number	Allowable speed [rpm]	Max.RCF [G] (Radius[mm])	BART Code	Remarks		
Nominal capacity [ml]	Mfr abbr.	Model Name(Material)	Bottom Shape	Tube Dimension (φ×L [mm])	Allowable RCF [G]								
 50ml	COR	430291(PP)	C	φ29×116	15,500	35	8	13,100	20,150(105)	1	*1 *2		
		430304(PET)	C	φ29×116	3,600			5,500	3,550(105)				
		430829(PP)	C	φ29×116	15,500								
	FLC	352070(PP)	C	φ30×115	9,400								*1 *2
	IWA	2343-050(PP)	C	φ29×117	9,400								
	NUC	339652(PP)	C	φ30×115	17,000						13,100	20,150(105)	*1 *3
		362696(PP)	C	φ26.6×113.7	9,500								
	INA	3182-345(PP)	C	φ29×115	15,000								*1 *2
		3181-345(PP)	C	φ29×115	15,000								
 15ml  Adapter CA1500-01	COR	430053(PET)	C	φ16×120	3,600	10.5	8	5,600	3,510(100)	1			
		430766(PP)	C	φ16×120	12,000			13,100	19,190(100)		*1 *3		
		430791(PP)	C	φ16×120	12,000			13,100	19,190(100)				
	FLC	352095(PS)	C	φ17×120	1,800			4,000	1,790(100)				
		352196(PP)	C	φ17×120	6,000			10,000	19,190(100)		*1 *4		
	IWA	2323-050(PP)	C	φ17×120	9,400			13,100	19,190(100)		*1 *3		
		339650(PP)	C	φ17×120	10,500			9,600	10,310(100)				
	NUC	362694(PP)	C	φ17×120	8,500			13,100	19,190(100)				
		3132-345(PP)	C	φ17×118	15,000			13,100	19,190(100)		*1 *3		
	INA	3131-345(PP)	C	φ17×118	15,000			13,100	19,190(100)				

*1 Tube strength may be degraded under some use conditions, such as solvent, set temperature, manufacturer which is not recommended, and operation frequency, which can cause damage to the tube. Perform a trial operation under actual operating conditions before use and verify that tubes have no cracks or damage.

*2 When centrifuging at 10,000rpm, set temperature should not exceed 25°C.

*3 When centrifuging at 13,100rpm, set temperature should not exceed 10°C.

*4 When centrifuging at 13,100rpm, set temperature should not exceed 25°C.

Symbols in the Table

Manufacturer Abbreviation

BDC : Becton, Dickinson and Company.
BEC : BECKMAN COULTER ,INC.
COR : CORNING INTERNATIONAL CORP.
EIK : EIKEN CHEMICAL CO., LTD.
EPP : EPPENDORF AG
FLC : Falcon/CORNING INTERNATIONAL CORP.
HER : Herolab GmbH Laborgeraete
HIT : Eppendorf HimaC Technologies CO., LTD.
IED : IEDA TRADING CORPORATION
INA : Ina-optika corporation.
IWA : Iwaki/AGC TECHNO GLASS CO., LTD.
NAL : NALGENE/ Thermo Fisher Scientific K.K.
NEG : NICHIDEN-RIKA GLASS CO., LTD.
NIP : NIPRO CORPORATION
NUC : NUNC / Thermo Fisher Scientific K.K.
SEK : SEKISUI MEDICAL CO., LTD.
SIO : SHIONOGI & CO., LTD.
SUM : SUMITOMO BAKELITE COMPANY LIMITED
TER : TERUMO CORPORATION
TOM : TOMY SEIKO CO., LTD.
TRE : TOHO KK.
WAT : WATSON CO., LTD.

Materials

FEP : Teflon FEP	G : Glass	HDPE : High-density Polyethylene
PA : Polyallomer	PC : Polycarbonate	PET : Polyethylene Terephthalate
PP : Polypropylene	PS : Polystyrene	PPCO : Polypropylene Copolymer
PSF : Polysulfone	SS : Stainless Steel	

Bottom shape

C : Conical F : Flat R : Round

* The specifications of the tube listed in the applicable tube table indicate the nominal value of the manufacturer.

* If the specifications of the tube have been changed by the manufacturer, it may not be able to fulfill all the conditions stated in the tables. For the latest specifications of the tube, please ask the manufacturer.