

Rotors & Accessories Selection Guide

Angle Rotors for AX-521 / 511 / 501

2ml



CA-1 [Click Here](#)

2ml×18
10,000rpm : 7,940G



CA-10 [Click Here](#)

2ml×24
10,000rpm : 9,730G



CA-15 [Click Here](#)

[Outer line] 2ml×18
10,000rpm : 8,500G
[Inner line] 0.5ml×12
10,000rpm : 6,600G
[Middle line] 0.2ml×12
10,000rpm : 5,810G



CA-5 [Click Here](#)

2ml×24
10,000rpm : 9,390G

2ml



CA-6 [Click Here](#)

2ml×36
[Outer line] 2ml×18
10,000rpm : 9,390G
[Inner line] 2ml×18
10,000rpm : 8,270G

5ml

Rotor for 5ml Conical Tube



CA-12 [Click Here](#)

5ml×12
10,000rpm : 9,170G

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

50ml

Rotor for Conical Tube



CA-8 [Click Here](#)

50ml×4
10,000rpm : 9,390G
or 15ml×4
10,000rpm : 9,060G



CA-16 [Click Here](#)

50ml×8
10,000rpm : 11,740G

50ml

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



CA-14HS [Click Here](#)

50ml×4
10,000rpm : 9,390G
or 5ml×4
10,000rpm : 7,490G

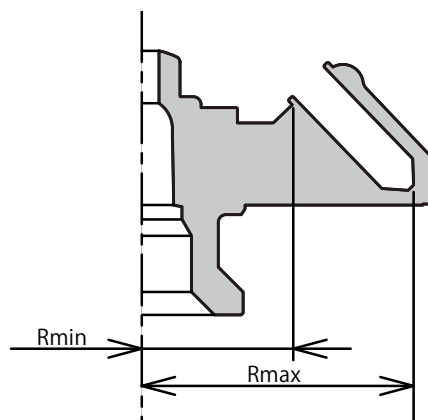
*The above specifications show Max. speed, Max. RCF, and Max. capacity. These values may change according to combination of centrifuge, rotor, bucket, adapter, and tube.

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.

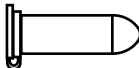
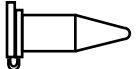
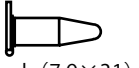

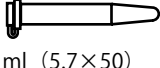

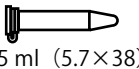

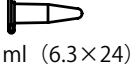

HS adopted a hermetically sealed structure equivalent to **HS** rotors designed and tested in accordance with the International Standard (Annex AA of the IEC 61010-2-020) to offer excellent sealing performance.

CA-1

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	7,940 G
Tube angle	45 degree
Max. radius	71 mm
Min. radius	40 mm
Rotor capacity	2ml×18

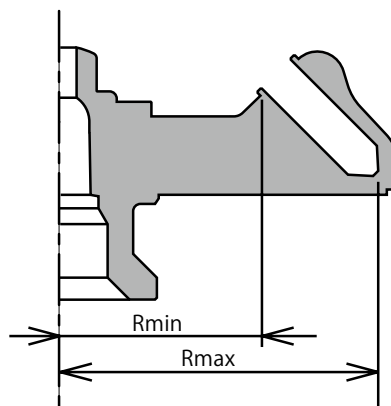


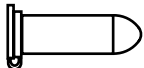
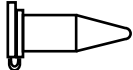
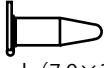

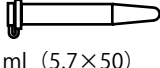

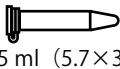



Applicable Tube to CA-1

Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	18	71	40	7,940	1
 1.5 ml (11×41)	—	18	69	40	7,720	1
 0.5 ml (7.9×31)	 MA006-01	18	62	40	6,930	1
 0.4 ml (5.7×50)	 A-004	18	70	40	7,830	1
 0.25 ml (5.7×38)	 A-004	18	62	40	6,930	1
 0.2 ml (6.3×24)	 MA002-01PC	18	54	40	6,040	1

CA-10

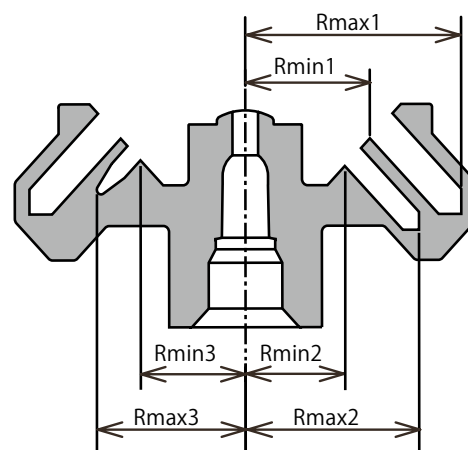
Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	9,730 G
Tube angle	45 degree
Max. radius	87 mm
Min. radius	55 mm
Rotor capacity	2ml×24


Applicable Tube to CA-10

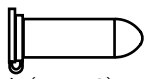
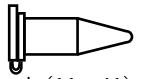
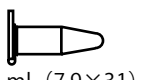

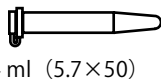

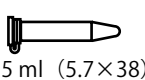

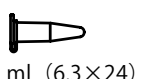

Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	24	87	55	9,730	1
 1.5 ml (11×41)	—	24	86	55	9,620	1
 0.5 ml (7.9×31)	 MA006-01	24	78	55	8,720	1
 0.4 ml (5.7×50)	 A-004	24	86	55	9,620	1
 0.25 ml (5.7×38)	 A-004	24	77	55	8,610	1
 0.2 ml (6.3×24)	 MA002-01PC	24	69	55	7,720	1

CA-15

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	8,500 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)

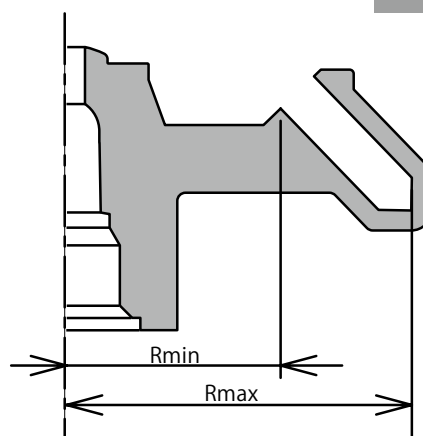


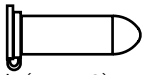
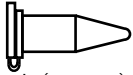


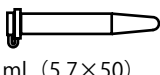

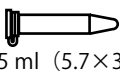



Applicable Tube to CA-15

Tube ($\phi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11 × 42)	—	18 (outer line)	76	44	8,500	1
 1.5 ml (11 × 41)	—	18 (outer line)	74	44	8,270	1
 0.5 ml (7.9 × 31)	—	12 (inner line)	59	35	6,600	1
	 MA006-01	18 (outer line)	67	44	7,490	1
 0.4 ml (5.7 × 50)	 MA004-01	18 (outer line)	76	44	8,500	1
 0.25 ml (5.7 × 38)	 MA004-01	18 (outer line)	67	44	7,490	1
 0.2 ml (6.3 × 24)	—	12 (middle line)	52	37	5,810	1
	 MA002-01PC	18 (outer line)	58	44	6,490	1

CA-5

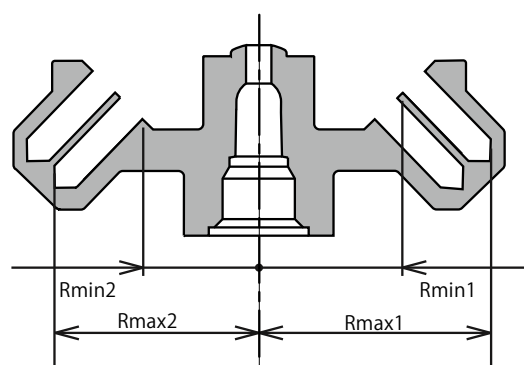
Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	9,390 G
Tube angle	44 degree
Max. radius	84 mm
Min. radius	52 mm
Rotor capacity	2ml×24


Applicable Tube to CA-5

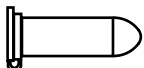
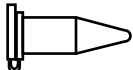
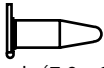

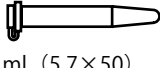

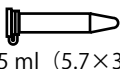



Tube ($\varphi \times L$ [mm])	Adapter	Max.Number	Radius[mm]		Max. RCF [G]	BART Code
			Max	Min		
 2 ml (11×42)	—	24	84	52	9,390	1
 1.5 ml (11×41)	—	24	82	52	9,170	1
 0.5 ml (7.9×31)	 MA006-01	24	74	52	8,270	1
 0.4 ml (5.7×50)	 MA004-01	24	84	52	9,390	1
 0.25 ml (5.7×38)	 MA004-01	24	75	52	8,390	1
 0.2 ml (6.3×24)	 MA002-01PC	24	66	52	7,380	1

CA-6

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	9,390 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

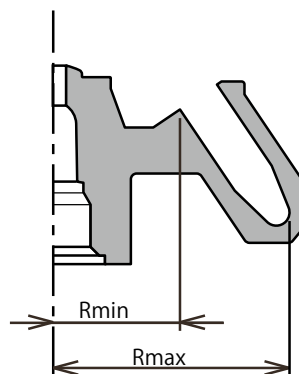


Applicable Tube to CA-6


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	9,390	1
		18 (inner line)	74	42	8,270	1
 1.5 ml (11×41)	—	18 (outer line)	82	52	9,170	1
		18 (inner line)	72	42	8,050	1
 0.5 ml (7.9×31)	 MA006-01	18 (outer line)	74	52	8,270	1
		18 (inner line)	64	42	7,160	1
 0.4 ml (5.7×50)	 MA004-01	18 (outer line)	83	52	9,280	1
		18 (inner line)	73	42	8,160	1
 0.25 ml (5.7×38)	 MA004-01	18 (outer line)	74	52	8,270	1
		18 (inner line)	64	42	7,160	1
 0.2 ml (6.3×24)	 MA002-01PC	18 (outer line)	66	52	7,380	1
		18 (inner line)	56	42	6,260	1

CA-12

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	9,170 G
Tube angle	34 degree
Max. radius	82 mm
Min. radius	44 mm
Rotor capacity	5ml conical tube × 12



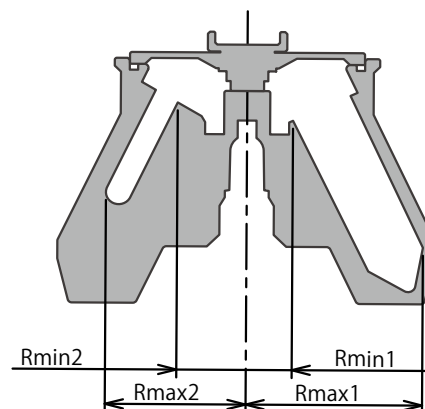
Applicable Tube to CA-12

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	φ15×59	-	3.5	12	10,000	9,170(82)	1	

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

CA-14HS

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	9,390 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	10,000	9,390(84)	1				
		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									
		362696(PP)	C	φ26.6×113.7	9,500									
	SUM	MS-56500(PP)	C	φ30×115	9,400									
	INA	3182-345(PP)	C	φ29×115	15,000									
3181-345(PP)		C	φ29×115	15,000										
15ml Adapter CA1500-01	COR	430053(PET)	C	φ16×120	3,600	10.5	4	6,300	3,550(80)	1				
		430766(PP)	C	φ16×120	12,000			10,000	8,950(80)					
		430791(PP)	C	φ16×120	12,000			10,000	8,950(80)					
	FLC	352095(PS)	C	φ17×120	1,800			4,400	1,730(80)					
		352196(PP)	C	φ17×120	6,000			10,000	8,950(80)			1	* 2 * 3	
	NUC	339650(PP)	C	φ17×120	10,500			10,000	8,950(80)					
		INA	3132-345(PP)	C	φ17×118			15,000	10,000			8,950(80)		
			3131-345(PP)	C	φ17×118			15,000	10,000			8,950(80)		
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)					

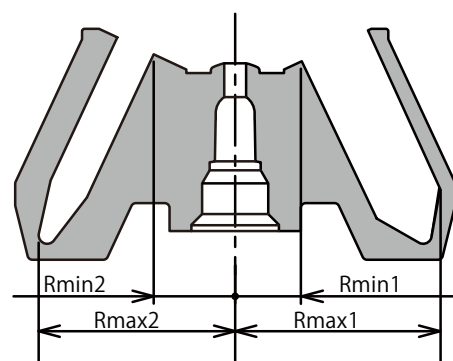
* Different types of tubes cannot be loaded together.

* 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 10,000rpm, set temperature should not exceed 25°C.

CA-8

Applicable model	AX-521 / AX-511 / AX-501	
Max. speed	10,000 rpm	
Max. RCF	9,390 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.

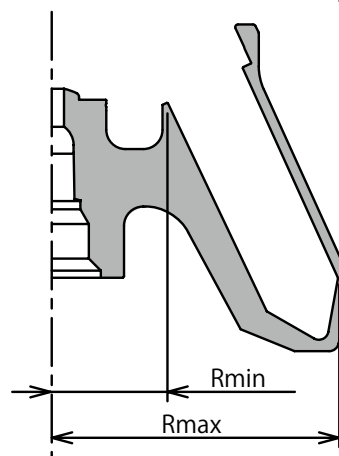
Applicable Tube to CA-8

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	10,000	9,390(84)	1	
 15ml	COR	430766(PP)	C	φ 16 × 120	12,000	10.5	4	10,000	9,060(81)	1	
	COR	430791(PP)	C	φ 16 × 120	12,000	10.5	4	10,000	9,060(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	



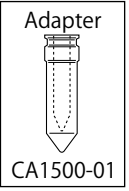
* Different types of tubes cannot be loaded together.

CA-16

Applicable model	AX-521 / AX-511 / AX-501
Max. speed	10,000 rpm
Max. RCF	11,740 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]								
	COR	430291(PP)	C	φ29×116	15,500	35	8	10,000	11,740(105)	1			
		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								
	IWA	2343-050(PP)	C	φ29×117	9,400								
	NUC	339652(PP)	C	φ30×115	17,000							10,000	11,740(105)
		362696(PP)	C	φ26.6×113.7	9,500								
	SUM	MS-56500(PP)	C	φ30×115	9,400								
	INA	3182-345(PP)	C	φ29×115	15,000								
3181-345(PP)		C	φ29×115	15,000									
 	COR	430053(PET)	C	φ16×120	3,600	10.5	8	5,600	3,510(100)	1			
		430766(PP)	C	φ16×120	12,000			10,000	11,180(100)				
		430791(PP)	C	φ16×120	12,000			10,000	11,180(100)				
	FLC	352095(PS)	C	φ17×120	1,800					4,000	1,790(100)	1	*1 *2
		352196(PP)	C	φ17×120	6,000					10,000	11,180(100)		
	NUC	339650(PP)	C	φ17×120	10,500					9,600	10,310(100)		
	INA	3132-345(PP)	C	φ17×118	15,000					10,000	11,180(100)		
		3131-345(PP)	C	φ17×118	15,000					10,000	11,180(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.

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.