Experience Care Quality Innovation





1950 The beginning

The history of IAE began in 1950 with high power electronic valve production.

Manufacturing of X-ray tubes followed in 1965, exploiting the already advanced technology in high vacuum and special metals.

In 1973 a major change in stakeholders composition took place and the new property produced a strong interest for medical X-ray tube applications.

Subsequently, the production of valves was soon abandoned.





The development

In 2002 an expansion in production capacity took place with the opening of our new site in Cormano, located close to the historical site.

The booming commercial area covers much of the international market.

The production meets the increasing demands of the market with competitive products and high reliability.

IAE today

Nowadays IAE plays a key role on the international market, being the biggest standalone X-ray tube manufacturer in Europe for rotating anode tubes.

Thanks to its wide range of products (more than 150 insert/housing different combination) IAE is a strategic partner for the most important equipment manufacturers worldwide.

With the addition of more than 30 different competitors' unit reloadings (all CE marked), IAE is sure to satisfy at the highest level the market of service.





Our production

- Special applications tubes (for mobile systems and surgical C-arms)
- Inserts and housings for medium and high duty radiological systems
- Inserts and housings for digital angiography and cardiac application
- Complete units for mammography
- CT tube unit reloading

SPECIAL APPLICATIONS







Rotating anode X-ray tube, compact and reliable, specifically designed for monoblocs and mobile systems.

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- Wide range of focal spots combination to meet specific application needs
- · Advanced tests to simulate field operation to ensure best performance

Specifications

Maximum peak voltage	130 kV
Anode angle and diameter	15° - 64 mm
Maximun anode dissipation	300 W (24000 HU/min)
Anode heat sytorage capacity	80 kJ (107 kHU)
Rotating anode speed	3000 rpm

Focal Spots	kW Rating
0.3 / 0.6	3.8 / 10
0.6 / 1.3	11 / 32
0.8 / 1.3	16 / 32
0.8	16



IAE Housings

C31



specifically designed for monoblocs and mobile systems. It is intended as a replacement for Siemens Mobilet®.

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- Wide range of focal spots combination to meet specific application needs
- · Advanced tests to simulate field operation to ensure best performance

Specifications

Overwiev

Maximum peak voltage	135 kV	
Anode angle and diameter	15° - 64 mm	
Maximun anode dissipation	300 W (24000 HU/min)	
Anode heat sytorage capacity	80 kJ (107 kHU)	
Rotating anode speed	10000 rpm	
Focal Spots	kW Rating	
0.8	30	
Tank		
IAE Housings		
C31		



Overwiev

Rotating anode X-ray tube for mobile C-arms for surgical and cardiac applications. Superior high voltage stability for longer fluoro procedures.

Characteristics

- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides high dissipation rate
- HV stability allows longer fluoro procedures
- Severe tests during conditioning assure best performances

Specifications
Maximum peak voltage 130 kV
Anode angle and diameter 10° - 64 mm
Maximun anode dissipation 300 W (24000 HU/min)
Anode heat sytorage capacity 150 kJ (200 kHU)
Rotating anode speed 3000 rpm
Focal Spots kW Rating
0.3 / 0.6 5 / 17
Tank
IAE Housings
C30





130 kV

16° - 64 mm

3000 rpm

kW Rating

3.8 / 10

300 W (24000 HU/min)

105 kJ (140 kHU)

Overwiev

Rotating anode X-ray tube, compact and reliable, specifically designed for monoblocs and mobile systems.

Characteristics

- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- HV stability allows longer fluoro procedures
- Advanced tests to simulate field operation to ensure best performance

Specifications

Maximum peak voltage Anode angle and diameter Maximun anode dissipation Anode heat sytorage capacity Rotating anode speed

Focal Spots 0.3 / 0.6

Tank

IAE Housings





Rotating anode X-ray tube, compact and reliable,

specifically designed for monoblocs and mobile systems.

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- · Wide range of focal spot combination to meet specific application needs
- Advanced tests simulate field operation to ensure best performances

Specifications

Overwiev

Maximum peak voltage	130 kV
Anode angle and diameter	15° - 64 mm
Maximun anode dissipation	300 W (24000 HU/min)
Anode heat sytorage capacity	80 kJ (107 kHU)
Rotating anode speed	10000 rpm

Focal Spots	kW Rating
0.3 / 0.6	6.5 / 18
0.3 / 0.8	6.5 / 30
0.5 / 0.8	16 / 30
0.6 / 1.2	20 / 50
0.6 / 1.3	20 / 54
0.8 / 1.3	30 / 54

Tank

IAE Housings

C30 C31





Overwiev B

Rotating anode X-ray tube, compact and reliable, specifically designed for monoblocs and mobile systems.

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- · Wide range of focal spot combination to meet specific application needs
- Advanced tests simulate field operation to ensure best performances

Specifications

Maximum peak voltage	130 kV
Anode angle and diameter	17.5° - 64 mm
Maximun anode dissipation	300 W (24000 HU/min)
Anode heat sytorage capacity	80 kJ (107 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.3 / 0.6	3 / 8.5	5.5 / 15

Tank

IAE Housings

C31



- RTM target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- HV stability allows longer fluoro procedures
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage	130 kV
Anode angle and diameter	10° - 73 mm
Maximun anode dissipation	750 W (60000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.3 / 0.5	6 / 19	10 / 34
0.3 / 0.6	6 / 25	10 / 45

IAE Housings

C30 C32





- RTM target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Outstanding input powers and high resolution

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	12.5° - 73 mm
Maximun anode dissipation	500 W (40000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.6 / 1.2	17 / 43	30 / 75

IAE Housings

C31 C352





- RTM target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- HV stability allows longer fluoro procedures
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage	130 kV
Anode angle and diameter	15° - 73 mm
Maximun anode dissipation	700 W (56000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Ra	ating
	low speed	high speed
0.3 / 0.6	4 / 12	6 / 18
0.75	18	-

Tank

IAE Housings

C30 C31

Reloading

GE AMX/VMX





Rotating anode X-ray tube for high power monoblocs and mobile systems.

Characteristics

Overwiev

- RTM target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Outstanding input powers and high resolution

SpecificationsMaximum peak voltage130 kVAnode angle and diameter15° - 73 mmMaximun anode dissipation750 W (60000 HU/min)Anode heat sytorage capacity225 kJ (300 kHU)Rotating anode speed3000 - 10000 rpm

Focal Spots	kW	Rating
	low speed	high speed
0.6 / 1.25	14 / 40	22/60
0.75 / 1.25	20 / 40	

Tank

IAE Housings C31





It is intended as a replacement for Varian® A-145 insert.

Characteristics

- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Severe tests during conditioning assure best performances

Specifications		
Maximum peak voltage	150 kV	
Anode angle and diameter	10° - 73 mm	
Maximun anode dissipation	700 W (56000 HU/min)	
Anode heat sytorage capacity	225 kJ (300 kHU)	
Rotating anode speed	3000 rpm	C NAMES OF
Focal Spots	kW Rating	
03/06	6/25	
0.070.0	0120	- 1 - 1
Tank		
Reloading		
VARIAN B 145 A		
		-IT BL
		AND



Overwiev / / 8(TYPE RO 0306

Rotating anode X-ray tube specifically designed for surgical C-arms for Philips PULSERA® / VERADIUS®

Characteristics

- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Severe tests during conditioning assure best performances

Specifications		
Maximum peak voltage	150 kV	
Anode angle and diameter	10° - 73 mm	
Maximun anode dissipation	550 W (44000 HU/min)	
Anode heat sytorage capacity	225 kJ (300 kHU)	
Rotating anode speed	3000 rpm	
Eacol Spots	kW Pating	
	6 / 25	
0.370.0	0723	
Tank		
IMIN		
Reloading		
Philips PULSERA® / VERADIUS®		
		Contraction of the second



and mobile systems.

Characteristics

- RTM target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Outstanding input powers and high resolution

Specifications	
Maximum peak voltage	130 kV
Anode angle and diameter	10° - 73 mm
Maximun anode dissipation	750 W (56000 HU/min)
Anode heat sytorage capacity	300 kJ (400 kHU)
Rotating anode speed	3000 - 10000 rpm

kW F	Rating
low speed	high speed
6 / 19	10 / 34
6 / 25	10 / 45
	kW I low speed 6 / 19 6 / 25

Tank

IAE Housings

C33



MEDIUM DUTY





Characteristics

- Focal track in tungsten-rhenium alloy to prevent cracking
- Severe tests during conditioning assure best performances

Specifications Maximum peak voltage 130 kV Anode angle and diameter 16° - 80 mm 475 W (38000 HU/min) Maximun anode dissipation Anode heat sytorage capacity 105 kJ (140 kHU) Rotating anode speed 3000 rpm **Focal Spots kW Rating** 1.0 / 2.0 22/47 **IAE Housings** C40



Overwiev

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- Severe tests during conditioning assure best performances

Specifications Maximum peak voltage 130 kV Anode angle and diameter 14° - 73 mm 370 W (29600 HU/min) Maximun anode dissipation Anode heat sytorage capacity 150 kJ (200 kHU) Rotating anode speed 3000 rpm **Focal Spots** kW Rating 0.6/1.5 18 / 50 **IAE Housings** C40





Characteristics

- Focal track in tungsten-rhenium alloy to prevent cracking
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage Anode angle and diameter Maximun anode dissipation Anode heat sytorage capacity Rotating anode speed

Focal Spots

0.6 / 1.2

IAE Housings

C40



kW Rating 22 / 54







Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage Anode angle and diameter Maximun anode dissipation Anode heat sytorage capacity Rotating anode speed

Focal Spots 1.0 / 2.0

IAE Housings

C352

C52

130 kV 16° - 70 mm 370 W (29600 HU/min) 105 kJ (140 kHU) 3000 rpm

kW Rating 20 / 40





Overwiev

Rotating anode X-ray tube, for light duty general radiography systems.

Characteristics

- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage	150 kV	
Anode angle and diameter	16° - 90 mm	
Maximun anode dissipation	440 W (35200 HU/min)	
Anode heat sytorage capacity	105 kJ (140 kHU)	
Rotating anode speed	3000 rpm	1 Carlos
Focal Spots	kW Rating	
0.6 / 1.2	11 / 30	And a second

0.6 / 1.2
0.6 / 2.0
1.0 / 2.0
1.2/2.0

IAE Housings

C352 C52



with enhanced thermal capacity

Characteristics

· Improved anode thermal capacity

Overwiev

- Focal spot combinations allows for either high resolution imaging capabilities (0.6/1.2) or high available power for short exposure time (1.2/2.0)
- Severe tests during conditioning assure best performances
- Available also special version for reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	16° - 90 mm
Maximun anode dissipation	440 W (35200 HU/min)
Anode heat sytorage capacity	150 kJ (200 kHU)
Rotating anode speed	3000 rpm

Focal Spots	kW Rating
0.6 / 1.2	11 / 30
1.2 / 2.0	30 / 50

IAE Housings

C352 C52





- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Severe tests during conditioning assure best performances

Specifications	Ĩ
Maximum peak voltage	150 kV
Anode angle and diameter	15° - 73 mm
Maximun anode dissipation	750 W (60000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

kW	Rating
low speed	high speed
12 / 24	21 / 43
12 / 30	21 / 54
24 / 48	43 / 85
	kW low speed 12 / 24 12 / 30 24 / 48

IAE Housings

C352

C52





with enhanced thermal capacity.

Characteristics

- TMZ target with large thermal capacity
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- · Severe tests during conditioning assure best performances

Specifications		
Maximum peak voltage	150	kV
Anode angle and diameter	12.5	° - 73 mm
Maximun anode dissipation	750	W (60000 HU/min)
Anode heat sytorage capacity	225	kJ (300 kHU)
Rotating anode speed	3000) - 10000 rpm
Focal Spots	kW I	Rating
	low speed	high speed
0.6 / 1.2	20 / 50	32 / 78

IAE Housings

C352 C52



Rotating anode X-ray tube for general radiographic and fluoro procedures, from medium to heavy duty systems.

Characteristics

Overwiev

- TMZ target with large thermal capacity
- · Bearing assembly and bearing lubricant system are designed for long life under hardest X-ray operating conditions
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- · Severe tests during conditioning assure best performances
- · Available also special version for:
- reloading in GE-CGR and SIEMENS housings
- (supplied with anode end adaptation piece)
- PHILIPS equipment, to assure full filament emission compatibility

Specifications

Maximum peak voltage	150 kV
Anode angle and diameter	12.5° - 90 mm
Maximun anode dissipation	750 W (60000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW	Rating	
	low speed	high speed	
0.3 / 0.6	6 / 20	9/32	
0.6 / 1.0	24 / 40	35 / 70	
0.6 / 1.2	24 / 60	35 / 85	
0.6 / 1.3	24 / 62	35 / 90	
0.6 / 1.5	24 / 64	35 / 110	
1.0 / 2.0	40 / 75	70 / 137	

IAE Housings	Reloading
C352	CG52 - CGR STATORIX 240
C52	CG53 - CGR STATORIX 260
	CP52 - PHILIPS ROTALIX 350
	CC52 - COMET D09



- Bearing assembly and bearing lubricant system are designed for long life under hardest X-ray operating conditions
- · Focal track in tungsten-rhenium alloy to prevent cracking
- High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- · Severe tests during conditioning assure best performances
- Available also special version for:
- reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

Specifications

Maximum peak voltage	150 kV
Anode angle and diameter	15° - 90 mm
Maximun anode dissipation	750 W (60000 HU/min)
Anode heat sytorage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Ra	ating
	low speed	high speed
0.6 / 1.2	12/34	22 / 65
0.6 / 1.5	12 / 50	22 / 90
1.0 / 2.0	30 / 60	54 / 110

IAE Housings	Reloading
C352	CG52 - CGR STATORIX 240
C52	CG53 - CGR STATORIX 260
	CP52 - PHILIPS ROTALIX 350
	CC52 - COMET D09



Our challenge

IAE faces every challenge through technological innovation, know-how and professional training of its engineers and operators.

Currently, IAE is following several research paths; on one side, activities focused on the improvement of product performances and their application influence. On the other side, IAE is continuously studying its processes, trying to reach the highest levels for reliability and optimization.





Looking for cooperation

The motivation to continuous improvement lead IAE to look for cooperation within the Universities thanks to a fruitful teamwork, a special equipment for the treatment of bearing balls surface was developed.

Tube quality level

Continuous development of the equipments for a better and higher quality.





HIGH END



SPECIAL APPLICATIONS MEDIUM DUTY HIGH END CT SCANNERS MAMMOGRAPHY

> HOUSING RELOADING

RTM102 RTC600 RTC602 RTC700 RTC1000

Roverwiev 101

Rotating anode X-ray tube for heavy duty X-ray systems and remote controlled table.

Characteristics

- TMZ target with large thermal capacity
- Bearing assembly and bearing lubricant system are designed for long life under hardest X-ray operating conditions
- · Focal track in tungsten-rhenium alloy to prevent cracking
- Reduced thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances
- Available also special version for:
- reloading in GE-CGR and SIEMENS housings
- (supplied with anode end adaptation piece)

Specifications

Maximum peak voltage	150 kV
Anode angle and diameter	12.5° - 102 mm
Maximun anode dissipation	1000 W (80000 HU/min)
Anode heat sytorage capacity	300 kJ (400 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW	Rating
	low speed	high speed
0.6 / 1.0	26 / 45	40 / 80
0.6 / 1.2	26 / 63	40 / 100
0.6 / 1.3	26 / 65	40 / 105
0.6 / 1.5	26 / 70	40 / 125
1.0 / 2.0	45 / 90	80 / 150

IAE Housings	Reloading
C100	CG100 - CGR STATORIX 550
C52 SUPER	CG100 - COMET D010
C100 XT	CV150 - VARIAN B150
	CS100 - SIEMENS 100



HIGH END HIGH END O CT SCANNERS MAMMOGRAPHY HOUSING RELOADING



RTM102

Rotating anode X-ray tube specifically designed for general radiographic and fluoro procedures, from medium to heavy systems.

large anode angle allows greater X-ray coverage field.

Characteristics

• Bearing assembly and bearing lubricant system are designed for long life under hardest X-ray operating conditions

HU/min)

- · Focal track in tungsten-rhenium alloy to prevent cracking
- High thermal emittance oxide coating on anode and rotor provides hogh anode heat dissipation rate
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage	150 kV
Anode angle and diameter	15° - 102 mm
Maximun anode dissipation	1000 W (80000 HU/
Anode heat sytorage capacity	300 kJ (400 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.6 / 1.0	16 / 34	30 / 55
0.6 / 1.2	16 / 42	29 / 75
0.6 / 1.5	16 / 54	29 / 97
1.0 / 2.0	34 / 64	55 / 125

IAE Housings

C100
C52 SUPER
C100 XT





E

SPECIAL APPLICATIONS HIGH END

CT SCANNERS MAMMOGRAPHY HOUSING RELOADING



Rotating anode X-ray tube specifically designed for high troughput and special applications. Typical purpose is remote controlled tables and digital systems.

Characteristics

Overwiev

- High anode heat storage for repeated loading
- · Enhanced anode heat dissipation provided by high emittance coatings and target design
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · Reduced thermal stress on the bearings improves tube life duration
- · Severe tests during conditioning assure best performances
- Available also special version for:
- reloading in GE-CGR and SIEMENS housings

(supplied with anode end adaptation piece)

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	13° - 102 mm
Maximun anode dissipation	1000 W (80000 HU/min)
Anode heat sytorage capacity	450 kJ (600 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.6 / 1.0	24 / 45	43 / 80
0.6 / 1.2	24 / 63	43 / 100
0.6 / 1.3	24 / 65	43 / 105
0.6 / 1.5	24 / 70	43 / 125
1.0 / 2.0	45 / 90	80 / 150

IAE Housings	Reloading
C100	CG100 - CGR STATORIX 550
C52 SUPER	CC700 - COMET DO 700
C100 XT	CS100 - SIEMENS 100





Typical purpose is remote controlled tables

and digital systems.

Characteristics

Overwiev

- · High anode heat storage for repeated loading
- · Enhanced anode heat dissipation provided by high emittance coatings and target design
- · Focal track in tungsten-rhenium alloy to prevent cracking
- Reduced thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances
- · Available also special version for:
- reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	16° - 102 mm
Maximun anode dissipation	1000 W (80000 HU/min)
Anode heat sytorage capacity	450 kJ (600 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.6 / 1.0	17 / 28	30 / 50

IAE Housings	Reloading
C100	CG100 - CGR STATORIX 550
C52 SUPER	CC700 - COMET DO 700
C100 XT	CS100 - SIEMENS 100



Overwiev_____

Rotating anode X-ray tube specifically designed for high troughput and special applications. Typical purpose is remote controlled tables and digital systems.

...

Characteristics

- · High anode heat storage for repeated sequences, improving user productivity
- · Enhanced anode heat dissipation provided by high emittance coatings and target design
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · Reduced thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances
- Available also special version for:
- reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	12,5° - 102 mm
Maximun anode dissipation	1000 W (80000 HU/min)
Anode heat sytorage capacity	600 kJ (800 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW Rating	
	low speed	high speed
0.4 / 1.0	10 / 45	18 / 80
0.6 / 1.0	26 / 45	40 / 80
0.6 / 1.2	26 / 63	40 / 100
0.6 / 1.3	26 / 65	40 / 105
0.6 / 1.5	26 / 70	40 / 125
1.0 / 2.0	45 / 90	80 / 150

IAE Housings	Reloading
C100	CG100 - CGR STATORIX 550
C52 SUPER	CC700 - COMET DO 700
C100 XT	CS100 - SIEMENS 100



Overwiev 1000

Rotating anode X-ray tube specifically designed for high troughput and special applications (angiographic, cath-lab, digital X-ray systems).

....

Characteristics

- · Very high anode heat storage for repeated sequences, improving user productivity
- Enhanced anode heat dissipation provided by high emittance coatings and target design
- · Focal track in tungsten-rhenium alloy to prevent cracking
- · Severe tests during conditioning assure best performances
- Available also special version for:
- reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

Specifications	
Maximum peak voltage	150 kV
Anode angle and diameter	13° - 110 mm
Maximun anode dissipation	1200 W (96000 HU/min)
Anode heat sytorage capacity	840 kJ (1120 kHU)
Rotating anode speed	3000 - 10000 rpm

Focal Spots	kW	kW Rating	
	low speed	high speed	
0.3/1.0	7 / 45	12 / 80	
0.3 / 1.2	7 / 63	12/100	
0.4 / 1.0	10 / 45	18 / 80	
0.6 / 1.0	26 / 45	40 / 80	
0.6 / 1.2	26 / 63	40 / 100	
0.6 / 1.3	26 / 65	40 / 105	
0.6 / 1.5	26 / 70	40 / 125	
1.0 / 2.0	45 / 90	80 / 150	

IAE Housings	Reloading
C100	CG100 - CGR STATORIX 550
C52 SUPER	CC700 - COMET DO 700
C100 XT	CS100 - SIEMENS 100



- We combine handmade precision with high technology

Chemical cleaning

All surfaces have to be throughly cleaned from any dirt and product residual, in order to keep the highest vacuum level inside the tube during operation.

IAE has an automatic washing system, software controlled, for deep degreasing, etching and cleaning of all surfaces. It involves the use of several different cleaning agents, such as:

- detergents
- \cdot ultrasound vibrations
- \cdot acid etching
- · nitrogen drying.



Glass working

Cathode and anode parts are joined by melting the two edges together on a glass lathe.

The critical points are:

· removal of strains in the glass

 \cdot alignment at the correct $\bar{\mbox{distance}}$ between anode and cathode



Assembling

Cathode and anode components are assembled in our clean rooms.

CATHODE

Resolution and quality of diagnostic image depend on the correct assembling of the filaments and the electrostatic cup. The most critical issue of this process is accuracy: the filament is welded in its position with a very small tolerance. ANODE

The anode assembly is high technology condensed; bearings are in the high-vacuum environment of the tube and require special heat-insensitive, nonvolatile lubricants to allow safe rotation up to 10,000 rpm.

For this reason, specific designed bearings are used, with special surface treated balls, and the assembly is carefully balanced.




CT- SCANNER



CT - SCANNER SPECIAL APPLICATIONS MEDIUM DUTY HIGH END MAMMOGRAPHY HOUSING RELOADING



Overwiev 103 MAX Replacement for GE scanners: CT Max 640 Sytec 1600i /

Sytec 1600i / 1800i



GE CT Max

Specifications	
Anode angle and diameter	7° - 102 mm
Anode heat sytorage capacity	300 kJ (400 kHU)
Focal spots	0.3 / 0.6





CT - SCANNER SPECIAL APPLICATIONS MEDIUM DUTY HIGH END MAMMOGRAPHY HOUSING RELOADING





Replacement for GEscanners: Sytec 2000 / 3000 / 4000

Sytec Pace



Specifications	
Anode angle and diameter	9° - 127 mm
Anode heat sytorage capacity	1.5 MHU
Focal Spots	0.9 x 0.7 mm





CT - SCANNER MEDIUM DUTY HIGH END MAMMOGRAPHY HOUSING RELOADING



135 Overwiev

Replacement for GE scanners: Sytec SRI

Sytec Synergy Hilight Advantage CT/e



GE Venus Plus

Specifications	
Anode angle and diameter	7° - 135 mm
Anode heat sytorage capacity	2 MHU
Focal spots	0.9 x 0.7 mm





Replacement for GEscanners: Sytec 6000 / 8000 Prospeed Hispeed Dxi, Fxi, Lxi CT / i Advantage



Specifications	
Anode angle and diameter	7° - 165 mm
Anode heat sytorage capacity	3.5 MHU
Focal Spots	0.9 x 0.7 mm
	1.2 x1.2 mm

CT - SCANNER SPECIAL APPLICATIONS MEDIUM DUTY HIGH END MAMMOGRAPHY HOUSING RELOADING



CT - SCANNERS REPLACEMENT TABLE

ORIGINAL						IAE REPLACEMENT		
CT SCANNER TYPE	OEM HOUSING	OEM INSERT	HEAT STORAGE (kHU)	FOCAL SPOT (mm)	TARGET ANGLE	TUBE INSERT	HEAT STORAGE (kHU)	WARRANTY (SLICES)
GENERAL ELECTRIC								
CT MAX 640 Sytec 1600i/1800i	CTMax	MX 100	350	0.3/0.6	6.5°	RTM 103	400	50.000
Sytec 2000/3000/4000 Sytec Pace, Plus	Pace	MX 115	1500	0.9 x 0.7	9°	RTM 117	1750	80.000
Sytec Sri, Sytec Synergy	Venus							
HiLight Advantage 9800HiLight HTD HiSpeed CT/e, Ai	Jupiter Venus Plus	MX 135	2000	0.9 x 0.7	7°	RTM 135	2000	80.000
Sytec 6000/8000 ProSpeed, Plus, SX HiSpeed DXi, FXi, LXi Advantage, CTi	ProSpeed ProSpeed Solarix 350 Zeus	MX 165	3500	0.9 x 0.7 1.2 x 1.2	7°	RTC 165	3500	100.000

NOTE: warranty is on prorata basis. For the first 4000 slices total warranty applies.



MAMMOGRAPHY



for diagnostic procedures in mammography.

Characteristics

Metal center section

Overwiev

- Molibdenum doped target
- Reduce thermal stress on the bearings improves tube life duration
- · Severe tests during conditioning assure best performances

Specifications

opeenieanen	•			
Maximum pea	ik voltage		40 kV	
Anode angle a	and diamete	er	12.5° - 80 mm	
Maximun anoo	de dissipatio	on	500 W (40000 HU/min)	
Anode heat sy	/torage cap	acity	225 kJ (300 kHU)	
Rotating anod	e speed		3000 - 10000 rpm	
Focal Spots	kW Ratir	ng	Max Emission Current	
	low speed	high speed	and the second se	
0.1	1.15	2	35 mA - 25 kV	
0.3	4.8	9	140 mA - 25 kV	

IAE Housings





MEDIUM DUTY HIGH END CT SCANNER MAMMOGRAPHY HOUSING RELOADING

SPECIAL APPLICATIONS

XM12

XM1016

XM12T XM15T

r XM1016T XM65T

Overwiev 15

Rotating anode X-ray tube specifically designed for diagnostic procedures in mammography.

Characteristics

- Metal center section
- Molibdenum doped target
- Reduce thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances

Specifications

opoonioanon	•		
Maximum pea	k voltage		40 kV
Anode angle a	and diamete	15° - 80 mm	
Maximun anoo	de dissipatio	500 W (40000 HU/min)	
Anode heat sy	rtorage cap	225 kJ (300 kHU)	
Rotating anod	e speed	3000 - 10000 rpm	
			100 C
Focal Spots	kW Ratir	ng	Max Emission Current
	low speed	high speed	and the second se
0.1	1.15	2	35 mA - 25 kV
0.3	4.8	9	140 mA - 25 kV

IAE Housings





MAMMOGRAPHY

XM65T

SPECIAL APPLICATIONS MEDIUM DUTY HIGH END CT SCANNER O HOUSING RELOADING

XM12 XM15

XM12T

XM15T XM1016T

Overwiev 1016

Rotating anode X-ray tube specifically designed for diagnostic procedures in mammography.

Characteristics

- Two separate focal tracks, small focus on 10° and large focus on 16°, optimal resolution performances
- Replacement for VARIAN M113SP and M113
- Minimum resolution 14x12 lp/mm(width x length)
- Metal center section
- Molibdenum doped target
- Reduce thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage	40 kV	
Anode angle and diameter	double angle target	
	10°/16° - 80 mm	-
Maximun anode dissipation	500 W (40000 HU/min)	
Anode heat sytorage capacity	225 kJ (300 kHU)	-
Rotating anode speed	3000 - 10000 rpm	



IAE Housings





- Metal center section
- RTM target
- Reduce thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances

Specifications

Maximum peak voltage			49 kV
Anode angle and diameter			12.5° - 80 mm
Maximun anode dissipation			715 W (57200 HU/min)
Anode heat sytorage capacity			225 kJ (300 kHU)
Rotating anode	speed		3000 - 10000 rpm
Focal Spots kW Rating		Max Emission Current	
		9	
	low speed	high speed	
0.1	low speed	high speed	35 mA - 25 kV
0.1 0.3	low speed 2 8	high speed 4 16	35 mA - 25 kV 140 mA - 25 kV
0.1 0.3	low speed 2 8	high speed 4 16	35 mA - 25 kV 140 mA - 25 kV

IAE Housings

1	C339 E lateral HV and LV sockets, VARIAN version
1	C339 C coaxial HV and LV sockets, COMET version
1	C339 V coaxial HV and LV sockets, VARIAN version
	C340V



- Metal center section
- RTM target
- Reduce thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances

Specifications

opcomodione	,		
Maximum peak	< voltage	49 kV	
Anode angle a	nd diamete	15° - 80 mm	
Maximun anode dissipation			715 W (57200 HU/min)
Anode heat sytorage capacity			225 kJ (300 kHU)
Rotating anode	e speed		3000 - 10000 rpm
			and the second se
Focal Spots kW Rating		Max Emission Current	
	low speed	high speed	and the second se
0.1	2	4	35 mA - 25 kV
0.3	8	16	140 mA - 25 kV

IAE Housings

C339 E ateral HV and LV sockets, VARIAN version
C339 C coaxial HV and LV sockets, COMET version
C339 V coaxial HV and LV sockets, VARIAN version
C340V





- Two separate focal tracks, small focus on 10° and large focus on 16°, optimal resolution performances
- Metal center section
- Reduce thermal stress on the bearings improves tube life duration
- · Severe tests during conditioning assure best performances

Specification	s			
Maximum peak voltage		49 kV		
Anode angle and diameter		double angle target		
			10°/16° - 80 mm	
Maximun anode dissipation		715 W (57200 HU/min)		
Anode heat sy	torage cap	acity	225 kJ (300 kHU)	-
Rotating anode	e speed		3000 - 10000 rpm	2010/07/2010/07
Focal Spots	kW Ratir	ng	Max Emission Current	
	low speed	high speed		
0.1	1.4	2.5	35 mA - 25 kV	
0.3	5.6	9.6	140 mA - 25 kV	

IAE Housings





- Metal center section
- RTM target
- Reduce thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances

Specifications

opooniounone	,			
Maximum peak	< voltage		49 kV	
Anode angle a	nd diamete	r	15° - 100 mm	
Maximun anod	le dissipatio	on	1000 W (80000 HU/min)	
Anode heat sytorage capacity		450 kJ (600 kHU)		
Rotating anode	e speed		3000 - 10000 rpm	
Eccel Spote	kW Datin		Max Emission Current	
Focal Spots	KW Halli	ig	max Emission Current	
	low speed	high speed	provide and the second s	
0.1	1.38	2.5	35 mA - 25 kV	-4
0.3	5.3	8.9	140 mA - 25 kV	

IAE Housings

C341V





HOUSING







Rotating anode X-ray tube unit specifically designed for C-arm equipment. Suitable for max. 72 mm anode diameter inserts.

Characteristics

- Lead lined aluminum body
- · Internal pump for oil circulation, to improve thermal exchange
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable 3 a pressure switch
- H.T. cable socket: Parker type Compact Taper or Clymount type MINI75 4pin
- Solutions for higher dissipation available

Specifications

Overall lenght	416 mm
Maximum diameter	134 mm
Tube assembly net weight	15 kg
Nominal X-ray tube assembly voltage	125 kV
Maximum tube assembly heat content	500 kJ (670 kHU)
Maximum continuous heat dissipation	140 W (11200 HU/min)
	500 W (40000 HU/min) with HE30
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.18 mGy/h









Rotating anode X-ray tube unit specifically designed for mobile equipment. Suitable for max. 72 mm anode diameter inserts.

Characteristics

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure switch
- H.T. cable socket: Parker type Compact Taper
- · Solutions for higher dissipation available

Specifications

Overall lenght	400 mm
Maximum diameter	134 mm
Tube assembly net weight	15 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	500 kJ (670 kHU)
Maximum continuous heat dissipation	120 W (9600 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.18 mGy/h

Insert for Reloading	
X22	
RTM30 HS	
RTM72 H/HS	
RTM77 H	
RTM75 H/HS	
	(E aug





Rotating anode X-ray tube unit specifically designed for mobile C-arm equipment. Suitable for max. 72 mm anode diameter inserts.

Characteristics

- Lead lined aluminum body
- · Internal pump for oil circulation, to improve thermal exchange
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure switch
- H.T. cable socket: Parker type Compact Taper
- · Solutions for higher dissipation available

Specifications

Overall lenght	435 mm
Maximum diameter	150 mm
Tube assembly net weight	15 kg
Nominal X-ray tube assembly voltage	125 kV
Maximum tube assembly heat content	500 kJ (670 kHU)
Maximum continuous heat dissipation	1000 W (80000 HU/min) with HE30
	1200 W (96000 HU/min) with HE31
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.22 mGy/h

Insert for Reloading X20P RTM70 H/HS





Rotating anode X-ray tube unit specifically designed for anode diameter inserts ranging from 70 mm to 80 mm, for medium/high duty radiographic procedures.

- Lead lined aluminum body
- Two devices are present for thermal safety:
- 1 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 2 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	416 mm
Maximum diameter	150 mm
Tube assembly net weight	16 kg
Nominal X-ray tube assembly voltage	125 kV
Maximum tube assembly heat content	500 kJ (670 kHU)
Maximum continuous heat dissipation	1000 W (80000 HU/min) with HE30
	1200 W (96000 HU/min) with HE31
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.22 mGy/h











Rotating anode X-ray tube unit specifically designed for anode diameter inserts ranging from 70 mm to 80 mm, for medium/high duty radiographic procedures.

- Lead lined aluminum body
- Two devices are present for thermal safety:
- 1 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 2 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	490 mm
Maximum diameter	152 mm
Tube assembly net weight	16 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	900 kJ (1250 kHU)
Maximum continuous heat dissipation	180 W (14400 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h

Insert for Reloading	
X39	
X42	
X76	







Rotating anode X-ray tube unit specifically designed for anode diameter inserts ranging from 70 mm to 90 mm, for medium/high duty radiographic procedures.

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	484 mm
Maximum diameter	170 mm
Tube assembly net weight	21 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	1280 kJ (1700 kHU)
Maximum continuous heat dissipation without fan	230 W (18400 HU/min)
Maximum continuous heat dissipation with fan	370 W (29600 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray tube unit specifically designed for anode diameter inserts ranging from 70 mm to 90 mm, for medium/high duty radiographic procedures.

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	485 mm
Maximum diameter	170 mm
Tube assembly net weight	20 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	1280 kJ (1700 kHU)
Maximum continuous heat dissipation without fan	230 W (18400 HU/min)
Maximum continuous heat dissipation with fan	370 W (29600 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray tube unit specifically designed for 100 mm anode diameter inserts, for heavy duty radiographic procedures.

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	510 mm
Maximum diameter	182 mm
Tube assembly net weight	26 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	1280 kJ (1700 kHU)
Maximum continuous heat dissipation without fan	230 W (18400 HU/min)
Maximum continuous heat dissipation with fan	370 W (29600 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray tube unit specifically designed for 100 mm anode diameter inserts, for heavy duty radiographic procedures.

- Lead lined aluminum body
- Two devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable

Specifications	
Overall lenght	522 mm
Maximum diameter	200 mm
Tube assembly net weight	25 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	1500 kJ (2000 kHU)
Maximum continuous heat dissipation without fan	250 W (20000 HU/min)
Maximum continuous heat dissipation with fan	600 W (48000 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray tube unit designed for digital and vascular applications. Outstanding thermal dissipation without heat exchanger.

Characteristics

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure microswitch, installed on cathode end, activated by bellow expansion
- Special finning and fan allow highest dissipation power

Specifications

Overall lenght	524 mm
Maximum diamator	100 mm
Maximum diameter	190 11111
Tube assembly net weight	29 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	1800 kJ (2400 kHU)
Maximum continuous heat dissipation	1100 W (88000 HU/min)
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray tube unit specifically designed for high heat storage inserts for C-arms. High efficiency water cooling ensures continuous power dissipation with high-energy procedures.

- Lead lined aluminum body
- Three devices are present for thermal safety:
- 1 a bimetallic thermal switch, fitted externally on the anode end
- 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
- 3 a pressure microswitch, installed on cathode end, activated by bellow expansion

Specifications	
Overall lenght	515 mm
Maximum diameter	195 mm
Tube assembly net weight	31 kg
Nominal X-ray tube assembly voltage	150 kV
Maximum tube assembly heat content	3500 kJ (4660 kHU)
Maximum continuous heat dissipation	1400 W (112000 HU/min) with HE30+HE32
Minimum tube assembly inherent filtration	1.2 mm Al/75 kV
Maximum leakage radiation at 1 m from focal spots	0.44 mGy/h









Rotating anode X-ray mammography tube unit. Available in 3 versions with different HV and LV receptacles positions.

- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV e LV sockets, COMET version
- C339V coaxial HV e LV sockets, VARIAN version

Specifications	
Overall lenght	340 mm
Maximum diameter	140 mm
Tube assembly net weight	13 kg
Nominal X-ray tube assembly voltage	49 kV
Maximum tube assembly heat content	375 kJ (500 kHU)
Maximum continuous heat dissipation	80 W (6400 HU/min)
Minimum tube assembly inherent filtration	0.5 mm - Be
Maximum leakage radiation at 1 m from focal spots	45 μGy/h

Insert for Reloading		a survey and
XM12		aure an
XM12T		
XM15		
XM15T		
XM1016		
XM1016T	LO Q Q ANA C E DOSI	







Water cooled mammography tube unit, for beam scanning mammography equipments and high patients throughput screening applications.

- An external water circulation cooling jacket, in combination with an internal circulation system, ensures a heat dissipation three times highter than conventional mammography tube units
- For thermal protection there is a bimetallic thermal switch internally assembled series connected with stator common cable

Specifications	
Overall lenght	340 mm
Maximum diameter	150 mm
Tube assembly net weight	16 kg
Nominal X-ray tube assembly voltage	49 kV
Maximum tube assembly heat content	320 kJ (426 kHU)
Maximum continuous heat dissipation	800 W (64000 HU/min) with HE30
Minimum tube assembly inherent filtration	0.5 mm - Be
Maximum leakage radiation at 1 m from focal spots	60 µGy/h









Water cooled mammography tube unit, for beam scanning mammography equipments and high patients throughput screening applications.

Characteristics

- Brass body
- · Filled under vacuum with high dielectric insulating oil, specially processed
- An external water circulation cooling jacket, in combination with an internal oil circulation system, ensures a heat dissipation three times higher than conventional mammography tube units.
- Two devices are present for thermal protection:
- 1 one bimetallic thermal switch, fitted internally

2 one bimetallic thermal switch, fitted internally assembled, series connected with stator common cable

Specifications

Overall lenght	381 mm
Maximum diameter	160 mm
Tube assembly net weight	20 kg
Nominal X-ray tube assembly voltage	49 kV
Maximum tube assembly heat content	520 kJ (700 kHU)
Maximum continuous heat dissipation	1500 W (120000 HU/min) with HE31
Minimum tube assembly inherent filtration	0.5 mm - Be
Maximum leakage radiation at 1 m from focal spots	s 68 µGy/h

Insert for Reloading XM65T









Compact light weight rotating anode mammography x-ray tube unit, with special double angle target, for optimal performances with all techniques.

Specifications	
Nominal X-ray tube voltage	49 kV
Anode angle and diameter	double angle target 10°/16° - 80 mm
Maximum anode dissipation	715 W (57200 HU/min)
Anode heat storage capacity	225 kJ (300 kHU)
Rotating anode speed	3000 - 1000 rpm
Overall lenght	305 mm
Dimensions	110 x 135 mm
Tube assembly net weight	5.5 kg
Nominal X-ray tube assembly voltage	49 kV
Maximum continuous heat dissipation	400 W
Minimum tube assembly inherent filtration	0.5 mm - Be
Maximum leakage radiation at 1 m from focal spots	62 µGy/h

Focal Spo	ts		Max Emission Current
	low speed	high speed	
0.1	1.4	2.5	sF – 35 mA - 25 kV
0.3	5.6	9.6	LF – 140 mA - 25 kV





PLUDS Replacements

Housing	Insert type	IAE type
Rotalix 350	RO 12 30	RTM92 HS 0.6/1.2
Rotalix 350	RO 17 50	RTM90 HS 0.6/1.3
Rotalix 350	SRO 25 50	RTM92 HS 0.6/1.2
Rotalix 350	SRO 33 100	RTM90 HS 0.6/1.3

SReplacements S

Housing	Insert type	IAE type
100	Opti 150/40/72C	RTC600 HS 0.6/1.0
100	Opti 150/40/73C	RTC600 HS 0.6/1.0
100	Opti 150/40/82C	RTC600 HS 0.6/1.2
100	Opti 150/40/102C	RTC600 HS 0.6/1.2
100	Optilix 150/40/73C	RTC600 HS 0.6/1.0
100	Optilix 150/40/82C	RTC600 HS 0.6/1.2
100	Optilix 150/40/102C	RTC600 HS 0.6/1.2
100	Optilix 150/40/80HC	RTC600 HS 0.6/1.0
(Special rotor version)		



Replacements

Housing	Insert type	IAE type
Statorix 240/260	Major MN640	X50 1.0/2.0
Statorix 240/260	MSN740	RTM92 HS 1.0/2.0
Statorix 240/260	MSN741	RTM92 HS 1.0/2.0
Statorix 240/260	MSN742	RTM92 HS 0.6/1.2
Statorix 240/260	MN642	RTM92 HS 0.6/1.2
Statorix 240/260	MS740	RTM92 HS 1.0/2.0
Statorix 240/260	MS742	RTM92 HS 0.6/1.2
Statorix 240/260	R632	RTM90 HS 0.6/1.3
Statorix 240/260	RN642	RTM90 HS 0.6/1.3
Statorix 240/260	RS732	RTM90 HS 0.6/1.3
Statorix 240/260	RSN742	RTM90 HS 0.6/1.3
Statorix 550	RN620	RTC700 HS 1.0/2.0
Statorix 550	RN622	RTC700 HS 0.6/1.3
Statorix 550	RSN722	RTC700 HS 0.6/1.2
J150	Majoir Super MS952	RTM78 HS 0.6/1.2
J150	Majoir Super MS960	RTM78 HS 1.0/2.0
(Special rotor version)		

Replacements E

Housing	Insert type	IAE type
PX1302	DU303 1.0/2.0	RTM78 HS 1.0/2.0
PX1312	DU303 0.6/1.2	RTM782 HS 0.6/1.2 (*)
PX1351	DU140 1.0/2.0	X40 1.0/2.0
PX1402	DU304 1.0/2.0	RTM102 HS 1.0/2.0
PX1412	DU304 0.6/1.2	RTM101 HS 0.6/1.2
PX1429	DU304 0.6/1.2	RTM101 HS 0.6/1.2
PX1436	DU404 0.6/1.2	RTM101 HS 0.6/1.2
PX1424	DU304 0.6/1.2	RTM101 HS 0.6/1.2
PX1463	DU604 0.6/1.2	RTC600 HS 0.6/1.2
PX1475	DU754 0.6/1.2	RTC700 HS 0.6/1.2
PX1551	DU1005 0.6/1.2	RTC1000 HS 0.6/1.2

(*) complete housing only



Replacements

Housing	Insert type	IAE type
B113	M113SP	XM1016 0.1/0.3
B100	A100 – A101 – A102	RTM78 HS 1.0/2.0
B145	A145	RTM780 H 0.3/0.6
B130-B150	A150 – A152	RTM102 HS 1.0/2.0
B130-B150	A190 – A192 – A195	RTM101 HS 0.6/1.2
B130-B150	A196	RTM101 HS 0.6/1.0
B130-B150	A197	RTM101
B130-B150	A250 – A252	RTM102 HS 1.0/2.0
B130-B150	A256	RTM102 HS 0.6/1.2
B130-B150	A290 – A292	RTM101 HS 0.6/1.2
B130-B150	G292	RTC600 HS 0.6/1.2
Emerald	RAD-8	X40 1.2/2.0
Diamond	RAD-10	RTM77 0.75/1.25
Diamond	RAD-13	RTM78 HS 1.0/2.0
Diamond	RAD-14	RTM782 HS 0.6/1.2 (*)
Sapphire	RAD-21	RTM101 HS 0.6/1.2
	RAD-34	RTM90 HS 0.6/1.2
Sapphire	RAD-40	RTM101 HS 0.6/1.0
Sapphire	RAD-40	RTM101 HS 0.6/1.2
Sapphire	RAD-40	RTM101 HS 0.6/1.5
Sapphire	RAD-44	RTM102 HS 1.0/2.0
	RAD-52	RTC600 HS 0.6/1.0 (**)
	RAD-52	RTC600 HS 0.6/1.2 (**)
Sapphire	RAD-60	RTM101 HS 0.6/1.2
Sapphire	RAD-92	RTC600 HS 0.6/1.2
	RAD-95	RTC600 HS 0.6/1.2 (**)
OR-III	RAD-99	RTM780 H 0.3/0.6
	SG292B	RTC600 HS 0.6/1.0 (**)
	SG296B	RTC600 HS 0.6/1.0 (**)
B160	G1092	RTC1000 HS 0.6/1.0
		(*) complete housing only
		(**) special rotor version



Replacements

Housing	Insert type	IAE type
DO7	DX7 H (*)	RTM78 H 1.0/2.0
DO7	DX7 20/40-125	X40 1.0/2.0
DO7	DX71 H/HS	RTM78 HS 1.0/2.0
DO9	DX9 12/50-150	X50 AH 0.6/2.0
DO9	DX9 30/50-150	X50 AH 1.2/2.0
DO9	DX91 H/HS	RTM92 HS 1.0/2.0
DO9	DX92 H/HS	RTM92 HS 0.6/1.2
DO9	DX93 H/HS	RTM90 HS 0.6/1.5
DO9	DX94 H/HS	RTM90 HS 0.6/1.5
DO9	DX95 H/HS	RTM92 HS 0.6/1.0
DO9	DX294 H/HS	RTM90 HS 0.6/1.5
DO9	DX295 H/HS	RTM92 HS 0.6/1.0
DO9	DX96 H/HS	RTM90 HS 0.6/1.5
DO9	DX97 H/HS	RTM90 HS 0.6/1.2
DO10	DX10 H/HS	RTM102 HS 0.6/1.5
DO10	DX10 H/HS	RTM102 HS 1.0/2.0
DO10	DX101 H/HS	RTM101 HS 0.6/1.0
DO10	DX101 H/HS	RTM101 HS 0.6/1.3
DO10	DX104 H/HS	RTM101 HS 0.6/1.0
DO10	DX105 H/HS	RTM101 HS 0.6/2.0
DO10	DX124 H/HS	RTM101 HS 0.6/1.3
DO10	DX204 H/HS	RTM101 HS 0.6/1.0
DO10	DX204 H/HS	RTM101 HS 0.6/1.3
DO10	DX304 H/HS	RTM101 HS 0.6/1.2
DO10	DX106 H/HS	RTC600 HS 0.6/1.0
DO10	DX106 H/HS	RTC600 HS 0.6/1.3
DO10	DX226 H/HS	RTC600 HS 0.6/1.3
DO10	DX228 H/HS	RTC600 HS 1.0/2.0
DO700WX	DX700 H/HS	RTC700 HS 0.6/1.2
DO700WX	DX700 H/HS	RTC700 HS 1.0/2.0
DO700WX	DX1000 H/HS	RTC1000 HS 0.6/1.2
DO700WX	DX1010 H/HS	RTC1000 HS 0.6/1.2

(*) complete housing only



Shacements DZU

Housing	Insert type	IAE type
RX-25-30	1.2UG13CN	X40 G 1.2
RX-25-30	1/2U13BN	X40 1.0/2.0
RX-80	1/2P13C	RTM92 HS 1.0/2.0
RX-80	1/2P33C	RTM92 HS 1.0/2.0
RX-80	1/2P18C	RTM90 HS 1.0/2.0
RX-80	1/2P38C	RTM90 HS 1.0/2.0
RX-80	0.6/1.2P18C	RTM90 HS 0.6/1.2
RX-80	0.6/1.2P38D	RTM90 HS 0.6/1.2
RX-100	0.6/1.2P18CK	RTM102 HS 0.6/1.2
RX-100	0.6/1.2P37CK	RTM102 HS 0.6/1.2

TReplacements

Housing	IAE type
E7239X	X39 1.0/2.0
E7242X	X42 0.6/1.5
E7876X	X76 0.6/1.2
E7252X	RTM782 HS 0.6/1.2
E7813X	RTM78 HS 1.0/2.0
E7255X	RTM101 HS 0.6/1.2
E7254X	RTM101 HS 0.6/1.2
E7823FX	RTM102 HS 0.6/1.2
E7864X	RTM101 HS 0.6/1.2
RX-100	RTC600 HS 0.6/1.2



Field coverage




IAE housing horn angles



ANGLE	0°	45°	90° standard	135°	180°	225°	280°	315°
C352	C352_0	C352_4	C352_90 standard	C352_135	C352_180	C352_225	C352_280	C352_315
C52	C52_0	C52_45	C52_90 standard	C52_135	C52_180	C52_225	C52_280	C52_315
C52 SUPER	C52S_0	C52S_45	C52S_90 standard	C52S_135	C52S_180	C52S_225	C52S_280	C52S_315
C100	C100_0	C100_45	C100_90	C100_135	C100_180	C100_225	C100_280	C100_315

CGR housing horn angles





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AE warrants that its products shall be free from defects in material and workmanship and will meet the technical performance and ratings defined in the technical data sheets published at the date of shipment. IAE warrants its products on a prorated basis as stated below. The IAE obligation under this warranty is limited in accordance with the provisions stated herein. The sole and exclusive remedy under this warranty shall be repair, or at IAE's options, replacement of the defective product at a prorate portion of the original purchase price. Defective products are those found upon examination by IAE to be inoperative within the applicable performance and ratings within the time periods of exposures due to traceable defects in materials and workmanship.

WARRANTY PERIOD

Standard warranty periods for Diagnostic X-Ray Units are listed below. If no period of time is so stated or agreed, then IAE's warranty is limited to thirty (30) days. Different standard or agreed warranty periods may apply.

X-ray Tubes (inserts)

Warranty period is twelve (12) months prorata from date of installation but in no event later than eighteen (18) months from date of shipment from IAE's factory.

X-ray Complete Units (insert + housing)

X-Ray Tubes

Warranty period is twenty-four (24) months prorata from date of installation but in no event later that thirty (30) months from date of shipment from IAE's factory.

CT Tubes

Warranty period is an amount of prorata slices, within twelve (12) months from date of installation but in no event later than eighteen (18) months from date of shipment from IAE's factory.

Premature Warranty Failure

Diagnostic tubes have a non-prorated warranty that is defined as a premature or early failure. IAE will, at its option, repair or replace the defective product at no cost to the purchaser. The premature failure is 3 months following installation date. CT tubes have a non-prorated warranty fixed at 4000 slices.

WARRANTY TERMS

• Warranty consideration will only be given for products returned to IAE properly packaged and accompanied with a Tube Failure Report and a Return Authorization Number.

• Repairs and adjustments of X-Ray Tubes must be made (or directed in writing) by authorized IAE personnel only. Unauthorized repairs or adjustments will void this warranty.

• All shipping costs for a warranty return product to IAE are the responsibility of the purchaser and must be prepaid. Return shipping cost will be paid by IAE.

• All repairs including parts and labor made under the terms of this warranty will be at no charge.

Warranty will only be extended to the original purchaser. Warranty transfer will not be honored without prior written consent.
Warranty claims will be accepted up to 30 days after warranty expiration if the failure occurred within the warranty period. This grace

period will allow time for the product to be returned should the failure occur during the last month of the warranty.

CREDIT ALLOWANCE

If failure occurs during a prorata warranty period, IAE will at its sole option either:

1 - refund the prorata part of the purchase price

2 - repair the X-Ray Tube, at no cost to the Customer, upon return of failed X-Ray Tube to IAE

3 - apply a prorata credit on a replacement order for a new X-Ray Tube. Prorated credit allowance will be computed according to the following:

<u>Number of months/slices warranted (minus) Number of months/slices used</u> = % (multiplied) by Purchase Price Number of months/slices warranted

Therefore: Price of new tube (minus) Prorated Credit = Price of Replacement Tube

WARRANTY LIMITATIONS

If a product fails within the published technical performance and ratings specifications, and is used under "normal intended usage", will be considered for warranty adjustment. Use of the product under "other application" will be without warranty. Additionally, the warranty does not apply to any loss, damage, failure and/or malfunction relating in any way to shipping, storage, accident, abuse, misuse, alteration or equipment malfunction. The entire obligation of IAE under this warranty is to repair or replace the defective product. In no way shall IAE be responsible for consequential damages.





