



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.

In 2002, an expansion in production capacity took place with the opening of our new site in Cormano, located close to the historical site. IAE France was created to assure highest level of service for the French market.

Today, IAE plays a major role in the international x-ray market as the only independent manufacturer in Europe of rotating anode tubes. With its wide product line of more than 100 insert/housing combinations, IAE is a strategic and reliable partner to the most important equipment manufacturers globally.

More than 50 different competitors' reloadings (all CE marked) allow IAE to satisfy their service market at highest level.

IAE offers:

- Special application tubes (for mobile systems and mobile 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

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSINGS



iaee



F112

F115

F105

## STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# F112

Stationary anode X-ray tube, specifically designed for C-arm systems.

### SPECIFICATIONS

|                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| Maximum peak voltage        | 120 kV               |                      |
| Anode angle                 | 12°                  |                      |
|                             | standard             | with radiator        |
| Maximum anode dissipation   | 270 W (21600 HU/min) | 500 W (40000 HU/min) |
| Anode heat storage capacity | 30 kJ (40 kHU)       | 40 kJ (53 kHU)       |

### CHARACTERISTICS

- Shielded anode for low leakage radiation and glass protection from secondary emission
- Integral heat sink for high anode heat dissipation

FOCAL SPOTS • mm  
0.5 / 1.5

INPUT POWERS • W  
780 / 4200



F112

F115

F105

## STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

## F115

Stationary anode X-ray tube, specifically designed for mobile systems.

## SPECIFICATIONS

|                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| Maximum peak voltage        | 120 kV               |                      |
| Anode angle                 | 15°                  |                      |
|                             | standard             | with radiator        |
| Maximum anode dissipation   | 270 W (21600 HU/min) | 500 W (40000 HU/min) |
| Anode heat storage capacity | 30 kJ (40 kHU)       | 40 kJ (53 kHU)       |

## CHARACTERISTICS

- Shielded anode for low leakage radiation and glass protection from secondary emission
- Integral heat sink for high anode heat dissipation

FOCAL SPOTS • mm  
0.6 / 1.8

INPUT POWERS • W  
1100 / 5300



F112

F115

F105

## STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

## F105

Stationary anode X-ray tube, specifically designed for ortopantomograph systems.

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 105 kV               |
| Anode angle                 | 5°                   |
| Maximum anode dissipation   | 250 W (20000 HU/min) |
| Anode heat storage capacity | 30 kJ (40 kHU)       |

## CHARACTERISTICS

- Shielded anode for low leakage radiation and glass protection from secondary emission

FOCAL SPOTS • mm  
0.5

INPUT POWERS • W  
2000



X22

- X20P
- X22P
- RTM30
- RTM37
- RTM70
- RTM72
- RTM77
- RTM75
- RTM780

STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X22

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

### SPECIFICATIONS

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

### CHARACTERISTICS

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

### FOCAL SPOTS • mm

0.3 / 0.6  
 0.6 / 1.3  
 0.8 / 1.3  
 0.8

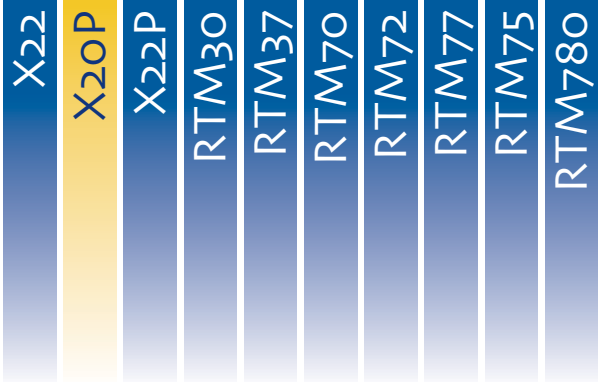
### INPUT POWERS • KW

3.8 / 10  
 11 / 32  
 16 / 32  
 16

### IAE HOUSINGS

- C31





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X20P

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 10° - 64 mm          |
| Maximum anode dissipation   | 300 W (24000 HU/min) |
| Anode heat storage capacity | 150 kJ (200 kHU)     |
| Rotating anode speed        | 3000 rpm             |

### CHARACTERISTICS

- TZM 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 anode heat dissipation rate
- HV stability allows longer fluoro procedures
- Severe tests during conditioning assure best performances

FOCAL SPOTS • mm  
0.3 / 0.6

INPUT POWERS • KW  
5 / 17

### IAE HOUSINGS

- C30





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X22P

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 16° - 64 mm          |
| Maximum anode dissipation   | 300 W (24000 HU/min) |
| Anode heat storage capacity | 105 kJ (140 kHU)     |
| Rotating anode speed        | 3000 rpm             |

### CHARACTERISTICS

- TZM target with large thermal capacity
- Focal track in tungsten-rhenium alloy to prevent cracking
- HV stability allows longer fluoro procedures
- Severe tests during conditioning assure best performances

FOCAL SPOTS • mm  
0.3 / 0.6

INPUT POWERS • KW  
3.8 / 10







STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM30

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

### SPECIFICATIONS

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

### 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

### FOCAL SPOTS • mm

0.3 / 0.8  
0.5 / 0.8  
0.6 / 1.2  
0.6 / 1.3  
0.8 / 1.3

### INPUT POWERS • KW

6.5 / 30  
16 / 30  
20 / 50  
20 / 54  
30 / 54

### IAE HOUSINGS

- C31





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM37

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

### SPECIFICATIONS

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

### 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

### FOCAL SPOTS • mm

0.3 / 0.6

### INPUT POWERS • KW

|           |            |
|-----------|------------|
| low speed | high speed |
| 3 / 8.5   | 5.5 / 15   |





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM70

Rotating anode X-ray tube specifically designed for surgical C-arms. Outstanding high voltage stability, high thermal capacity and dissipation.

### SPECIFICATIONS

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

### 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 high anode heat dissipation rate
- HV stability and large anode dissipation allow longer fluoro exposures
- Severe tests during conditioning assure best performances

### FOCAL SPOTS • mm

0.3 / 0.5  
0.3 / 0.6

### INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 6 / 19    | 10 / 34    |
| 6 / 25    | 10 / 45    |

### IAE HOUSINGS

- C30
- C32





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM72

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

### SPECIFICATIONS

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

### 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 high anode heat dissipation rate
- Outstanding input powers and high resolution

### FOCAL SPOTS • mm

0.6 / 1.2

### INPUT POWERS • KW

|           |            |
|-----------|------------|
| low speed | high speed |
| 17 / 43   | 30 / 75    |

### IAE HOUSINGS

- C31
- C352





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM77

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 15° - 73 mm          |
| Maximum anode dissipation   | 750 W (60000 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 rpm             |

### 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 high anode heat dissipation rate
- Outstanding input powers and high resolution

FOCAL SPOTS • mm  
0.75 / 1.25

INPUT POWERS • KW  
20 / 40

### IAE HOUSINGS

- C31





STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM75

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

### SPECIFICATIONS

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

### 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 high anode heat dissipation rate

### FOCAL SPOTS • mm

0.3 / 0.6  
0.75

### INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 4 / 12    | 6 / 18     |
| 18        | -          |

### RELOADING

- GE AMX/VMX

### IAE HOUSINGS

- C30
- C31



- X22
- X20P
- X22P
- RTM30
- RTM37
- RTM70
- RTM72
- RTM77
- RTM75
- RTM780**

STATIONARY ANODE

## SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM780

Rotating anode X-ray tube specifically designed for surgical C-arms. It is intended as a replacement for Varian® A-145 insert.

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 150 kV               |
| Anode angle and diameter    | 10° - 73 mm          |
| Maximum anode dissipation   | 750 W (60000 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 rpm             |

### CHARACTERISTICS

- TZM 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 anode heat dissipation rate
- Severe tests during conditioning assure best performances

FOCAL SPOTS • mm  
0.3 / 0.6

INPUT POWERS • KW  
6 / 25

### RELOADING

- VARIAN B 145 A



X39

X42

X76

X40

X50H

X50AH

RTM78

RTM782

RTM90

RTM92

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X39

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

#### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 16° - 80 mm          |
| Maximum anode dissipation   | 475 W (38000 HU/min) |
| Anode heat storage capacity | 105 kJ (140 kHU)     |
| Rotating anode speed        | 3000 rpm             |

#### CHARACTERISTICS

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

FOCAL SPOTS • mm  
1.0 / 2.0

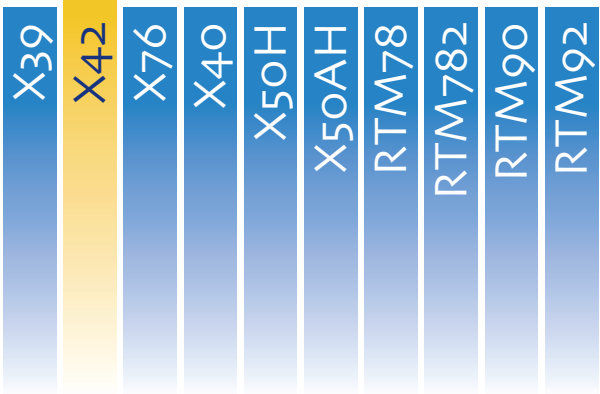
INPUT POWERS • KW  
22 / 47

#### IAE HOUSINGS

- C40







STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X42

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

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 14° - 73 mm          |
| Maximum anode dissipation   | 370 W (29600 HU/min) |
| Anode heat storage capacity | 150 kJ (200 kHU)     |
| Rotating anode speed        | 3000 rpm             |

## CHARACTERISTICS

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

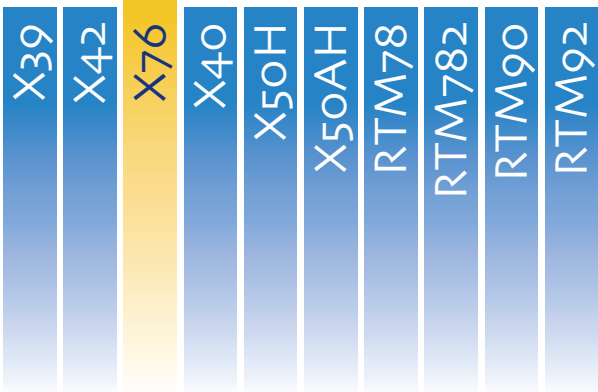
FOCAL SPOTS • mm  
0.6 / 1.5

INPUT POWERS • KW  
18 / 50

## IAE HOUSINGS

- C40





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X76

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

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 150 kV               |
| Anode angle and diameter    | 12° - 73 mm          |
| Maximum anode dissipation   | 450 W (36000 HU/min) |
| Anode heat storage capacity | 170 kJ (230 KHU)     |
| Rotating anode speed        | 3000 rpm             |

## CHARACTERISTICS

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

FOCAL SPOTS • mm  
0.6 / 1.2

INPUT POWERS • KW  
22 / 54

## IAE HOUSINGS

- C40





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X40

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

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 130 kV               |
| Anode angle and diameter    | 16° - 70 mm          |
| Maximum anode dissipation   | 370 W (29600 HU/min) |
| Anode heat storage capacity | 105 kJ (140 kHU)     |
| Rotating anode speed        | 3000 rpm             |

## CHARACTERISTICS

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

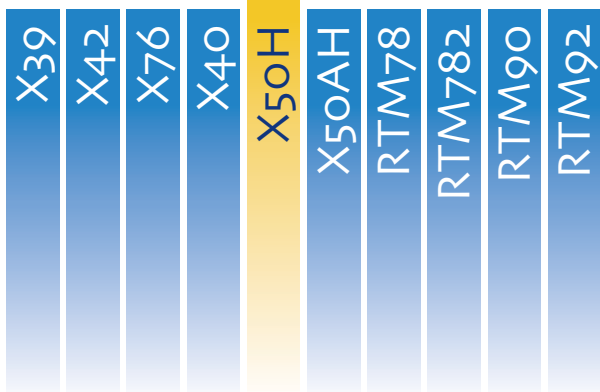
FOCAL SPOTS • mm  
1.0 / 2.0

INPUT POWERS • KW  
20 / 40

## IAE HOUSINGS

- C352
- C52





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X50H

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

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 150 kV               |
| Anode angle and diameter    | 16° - 90 mm          |
| Maximum anode dissipation   | 440 W (35200 HU/min) |
| Anode heat storage capacity | 105 kJ (140 kHU)     |
| Rotating anode speed        | 3000 rpm             |

## CHARACTERISTICS

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

## FOCAL SPOTS • mm

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

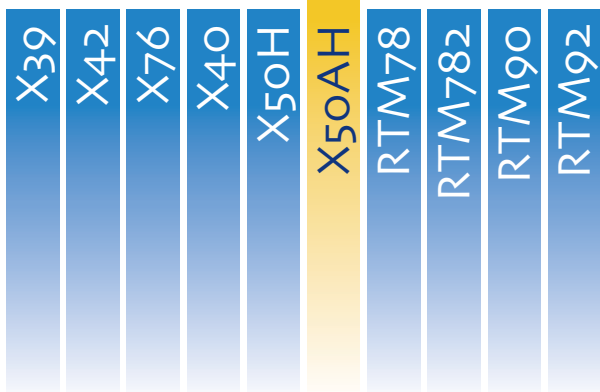
## INPUT POWERS • KW

11 / 30  
11 / 50  
24 / 50  
30 / 50

## IAE HOUSINGS

- C352
- C52





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# X50AH

Rotating anode X-ray tube for general radiographic, medium duty x-ray systems, with enhanced thermal capacity.

## SPECIFICATIONS

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

## CHARACTERISTICS

- Improved anode thermal capacity
- 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)

## FOCAL SPOTS • mm

0.6 / 1.2  
1.2 / 2.0

## INPUT POWERS • KW

11 / 30  
30 / 50

## IAE HOUSINGS

- C352
- C52





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM78

Rotating anode X-ray tube from medium to heavy duty systems, compact size and high thermal capacity.

## SPECIFICATIONS

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

## CHARACTERISTICS

- TZM 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 anode heat dissipation rate
- Severe tests during conditioning assure best performances

## FOCAL SPOTS • mm

0.6 / 1.0  
0.6 / 1.2  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 12 / 24   | 21 / 43    |
| 12 / 30   | 21 / 54    |
| 24 / 48   | 43 / 85    |

## IAE HOUSINGS

- C352
- C52





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM782

Rotating anode X-ray tube from medium to heavy duty systems, compact size and high input powers.

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Maximum peak voltage        | 150 kV               |
| Anode angle and diameter    | 12.5° - 73 mm        |
| Maximum anode dissipation   | 750 W (60000 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 – 10000 rpm     |

## CHARACTERISTICS

- TZM 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 anode heat dissipation rate
- Severe tests during conditioning assure best performances

## FOCAL SPOTS • mm

0.6 / 1.2

## INPUT POWERS • KW

|           |            |
|-----------|------------|
| low speed | high speed |
| 20 / 50   | 32 / 78    |

## IAE HOUSINGS

- C352
- C52





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM90

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

## SPECIFICATIONS

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

## CHARACTERISTICS

- TZM 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 high anode heat dissipation rate
- Severe tests during conditioning assure best performances
- Available also special versions for:
  - reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)
  - PHILIPS equipment, to assure full filament emission compatibility

## FOCAL SPOTS • mm

0.3 / 0.6  
0.6 / 1.0  
0.6 / 1.2  
0.6 / 1.3  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 6 / 24    | 9 / 35     |
| 24 / 40   | 35 / 70    |
| 24 / 60   | 35 / 85    |
| 24 / 62   | 35 / 90    |
| 24 / 64   | 35 / 110   |
| 40 / 75   | 70 / 137   |

## IAE HOUSINGS

- C352
- C52

## RELOADING

- CG52 - CGR STATORIX 240
- CG53 - CGR STATORIX 260
- CP52 - PHILIPS ROTALIX 350
- CC52 - COMET D09







STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM92

Rotating anode X-ray tube for general radiographic and fluoro procedures, from medium to heavy systems. Large anode angle allows greater X-ray coverage field.

## SPECIFICATIONS

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

## CHARACTERISTICS

- 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 high anode heat dissipation rate
- Severe tests during conditioning assure best performances
- Available also special versions for:
  - reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

## FOCAL SPOTS • mm

0.6 / 1.2  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 12 / 34   | 22 / 65    |
| 12 / 50   | 22 / 90    |
| 30 / 60   | 54 / 110   |

## IAE HOUSINGS

- C352
- C52

## RELOADING

- CG52 - CGR STATORIX 240
- CG53 - CGR STATORIX 260
- CP52 - PHILIPS ROTALIX 350
- CC52 - COMET Do9



RTM101

RTM102

RTC600

RTC700

RTC1000

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM101

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

## SPECIFICATIONS

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

## CHARACTERISTICS

- TZM target with large thermal capacity
- Bearing assembly and bearing lubricant system are designed for long life under hardest x-rayoperating 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 versions for:
  - reloading in GE-CGR and SIEMENS housings (supplied with anode end adaptation piece)

## FOCAL SPOTS • mm

0.6 / 1.0  
0.6 / 1.2  
0.6 / 1.3  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 26 / 45   | 40 / 80    |
| 26 / 63   | 40 / 100   |
| 26 / 65   | 40 / 105   |
| 26 / 70   | 40 / 125   |
| 45 / 90   | 80 / 150   |

## IAE HOUSINGS

- C100
- C52 SUPER
- C100 XT

## RELOADING

- CG100 - CGR STATORIX 550
- CC100 - COMET D010
- CV150 - VARIAN B150
- CS100 - SIEMENS 100



RTM101  
 RTM102  
 RTC600  
 RTC700  
 RTC1000

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTM102

Rotating anode X-ray tube specifically designed for general radiographic, heavy duty x-ray systems. Anode angle optimised for under table use.

## SPECIFICATIONS

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

## CHARACTERISTICS

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

## FOCAL SPOTS • mm

0.6 / 1.0  
 0.6 / 1.2  
 0.6 / 1.5  
 1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 16 / 34   | 30 / 55    |
| 16 / 42   | 29 / 75    |
| 16 / 54   | 29 / 97    |
| 34 / 64   | 55 / 125   |

## IAE HOUSINGS

- C100
- C52 SUPER
- C100 XT

## RELOADING

- CG100 - CGR STATORIX 550
- CC100 - COMET D010
- CV150 - VARIAN B150
- CS100 - SIEMENS 100



RTM101  
RTM102  
RTC600  
RTC700  
RTC1000

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTC600

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

## SPECIFICATIONS

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

## CHARACTERISTICS

- 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)

## FOCAL SPOTS • mm

0.6 / 1.0  
0.6 / 1.2  
0.6 / 1.3  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 24 / 45   | 43 / 80    |
| 24 / 63   | 43 / 100   |
| 24 / 65   | 43 / 105   |
| 24 / 70   | 43 / 125   |
| 45 / 90   | 80 / 150   |

## IAE HOUSINGS

- C100
- C52 SUPER
- C100 XT

## RELOADING

- CG100 - CGR STATORIX 550
- CC700 - COMET DO 700
- CS100 - SIEMENS 100



RTM101  
RTM102  
RTC600  
RTC700  
RTC1000

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTC700

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

## SPECIFICATIONS

|                             |                       |
|-----------------------------|-----------------------|
| Maximum peak voltage        | 150 kV                |
| Anode angle and diameter    | 13° - 102 mm          |
| Maximum anode dissipation   | 1000 W (80000 HU/min) |
| Anode heat storage capacity | 600 kJ (800 kHU)      |
| Rotating anode speed        | 3000 - 10000 rpm      |

## 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)

## FOCAL SPOTS • mm

0.3 / 1.0  
0.6 / 1.0  
0.6 / 1.2  
0.6 / 1.3  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 17 / 45   | 12 / 80    |
| 26 / 45   | 40 / 80    |
| 26 / 63   | 40 / 100   |
| 26 / 65   | 40 / 105   |
| 26 / 70   | 40 / 125   |
| 45 / 90   | 80 / 150   |

## IAE HOUSINGS

- C52 SUPER
- C100 XT

## RELOADING

- CG100 - CGR STATORIX 550
- CC700 - COMET DO 700
- CS100 - SIEMENS 100



RTM101  
RTM102  
RTC600  
RTC700  
RTC1000

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# RTC1000

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

## SPECIFICATIONS

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

## 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 and improving lifetime
- 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)

## FOCAL SPOTS • mm

0.3 / 1.0  
0.6 / 1.0  
0.6 / 1.2  
0.6 / 1.3  
0.6 / 1.5  
1.0 / 2.0

## INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 7 / 45    | 12 / 80    |
| 26 / 45   | 40 / 80    |
| 26 / 63   | 40 / 100   |
|           | 40 / 105   |
|           | 40 / 125   |
|           | 80 / 150   |

## IAE HOUSINGS

- C52 SUPER
- C100 XT

## RELOADING

- CG100 - CGR STATORIX 550
- CC700 - COMET DO 700
- CS100 - SIEMENS 100



RTM103MAX

RTM117

RTM135

RTC165

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# RTM103MAX

Replacement for GE scanners:  
CT Max 640  
Sytec 1600i / 1800i



## SPECIFICATIONS

|                             |             |
|-----------------------------|-------------|
| Anode angle and diameter    | 7° - 102 mm |
| Anode heat storage capacity | 400 kHU     |
| Focal spots                 | 0.3 / 0.6   |



RTM103MAX

RTM117

RTM135

RTC165

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# RTM117

Replacement for GE scanners:  
Sytec 2000 / 3000 / 4000  
Sytec Pace



GE Sytec Pace

## SPECIFICATIONS

|                             |              |
|-----------------------------|--------------|
| Anode angle and diameter    | 9° - 127 mm  |
| Anode heat storage capacity | 1.5 MHU      |
| Focal spots                 | 0.9 x 0.7 mm |





RTM103MAX

RTM117

RTM135

RTC165

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# RTM135

Replacement for GE scanners:  
Sytec SRI  
Sytec Synergy  
Hilight Advantage  
CT / e



GE Venus Mini



GE Venus Plus



GE Jupiter



## SPECIFICATIONS

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



RTM103MAX  
RTM117  
RTM135  
RTC165

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# RTC165

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



GE Hispeed Solarix



GE Prospeed



GE Zeus

## SPECIFICATIONS

Anode angle and diameter  
Anode heat storage capacity  
Focal spots

7° - 165 mm  
3.5 MHU  
0.9 x 0.7 mm  
1.2 x 1.2 mm



# 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) |
| <b>GENERAL ELECTRIC</b>  |   |            |                    |                        |              |                 |                    |                   |
| CT MAX 640<br>Sytec 1600i/1800i  | CTMax                                       | MX 100     | 350                | 0.3/0.6                | 6.5°         | RTM 103         | 400                | 50.000            |
| Sytec 2000/3000/4000<br>Sytec Pace, Plus   | Pace  | MX 115     | 1500               | 0.9 x 0.7              | 9°           | RTM 117         | 1750               | 80.000            |
| Sytec Sri, Sytec Synergy<br>HiLight Advantage<br>9800HiLight HTD<br>HiSpeed CT/e, Ai | Venus<br><br>Jupiter<br>Venus Plus          | MX 135     | 2000               | 0.9 x 0.7              | 7°           | RTM 135         | 2000               | 80.000            |
| Sytec 6000/8000<br>ProSpeed, Plus, SX<br>HiSpeed DXi, FXi, LXi<br>Advantage, CTi     | ProSpeed<br>ProSpeed<br>Solarix 350<br>Zeus | MX 165     | 3500               | 0.9 x 0.7<br>1.2 x 1.2 | 7°           | RTC 165         | 3500               | 100.000           |
| <b>HITACHI</b>   |   |            |                    |                        |              |                 |                    |                   |
| W450, W600, CarinO   | B180H                                       | GS1580     | 1500               | 0.8 x 1.1<br>1.5 x 2.4 | 10°          | CTV 158         | 1500               | 50.000            |
| <b>PHILIPS</b>   |   |            |                    |                        |              |                 |                    |                   |
| Tomoscan CX, TX  | B180H                                       | GS1580     | 1500               | 0.8 x 1.1<br>1.5 x 2.4 | 10°          | CTV 158         | 1500               | 50.000            |
| <b>PICKER</b>  |   |            |                    |                        |              |                 |                    |                   |
| IQ, IQ Premier   | CTR 1568 RC<br>CTR 1569 RC                  | DU 1605A   | 2000               | 0.7 x 1.4              | 10°          | RTC 127 IQ      | 2000               | 50.000            |
| 600/1200   | CTR 1562 RC                                 |            |                    |                        |              |                 |                    |                   |
| PQ-S, PQ2000   | CTR 1563 RC<br>CTR 1590 RC                  | DU2005     | 2000               | 0.4 x 1.0<br>0.6 x 1.6 | 10°          | RTC 127 PQ      | 2000               | 80.000            |
| <b>SHIMADZU</b>  |   |            |                    |                        |              |                 |                    |                   |
| SCT3000, 4000, 4500<br>SCT5000, SCT4800TE  | B180H                                       | GS1585     | 1500               | 0.8 x 1.1<br>1.5 x 2.4 | 10°          | CTV 158         | 1500               | 50.00             |
| <b>SIEMENS</b>   |   |            |                    |                        |              |                 |                    |                   |
| Somatom 2  | 103 MS                                      | OPTI 151   | 1350               | 1,6                    | 0°           | CTS 151         | 1350               | 50.000            |
| Somatom DR, DRG<br>Somatom SRH<br>Somatom CR, CRX                                    | 103 MS                                      | OPTI 155   | 1750               | 1,6                    | 0°           | CTS 155         | 1750               | 50.000            |
| Somatom Hi Q, HIQ-S  | 103 MS                                      | OPTI 156   | 1750               | 1.6 x 1.6              | 0°           | CTS 156         | 1750               | 50.000            |
| Somatom Hi Q, HIQ-S  | 103 MS                                      | OPTI 157   | 1750               | 1.6 x 1.6              | 0°           | CTS 157         | 1750               | 50.000            |
| <b>TOSHIBA</b>   |   |            |                    |                        |              |                 |                    |                   |
| 80A, 300, 400, 500,<br>600, S, HQ  | B180H                                       | GS1588     | 1500               | 1.0 x 1.0              | 10°          | CTV 158         | 1500               | 50.000            |

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



XM12

XM15

XM1016

XM12T

XM15T

XM1016T

XM65T

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# XM12

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

## SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Nominal X-ray tube voltage  | 40 kV                |
| Anode angle and diameter    | 12.5° - 80 mm        |
| Maximum anode dissipation   | 500 W (40000 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 – 10000 rpm     |

## CHARACTERISTICS

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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | MAX EMISSION CURRENT |
|------------------|-------------------|------------|----------------------|
|                  | low speed         | high speed |                      |
| 0.1              | 1.15              | 2          | 35 mA - 25 KV        |
| 0.3              | 4.8               | 9          | 140 mA - 25 KV       |

## IAE HOUSINGS

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V





- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNER

**MAMMOGRAPHY**  
HOUSING

# XM15

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Nominal X-ray tube voltage  | 40 kV                |
| Anode angle and diameter    | 12° - 80 mm          |
| Maximum anode dissipation   | 500 W (40000 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 – 10000 rpm     |

### CHARACTERISTICS

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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | MAX EMISSION CURRENT |
|------------------|-------------------|------------|----------------------|
|                  | low speed         | high speed |                      |
| 0.1              | 1.15              | 2          | 35 mA - 25 KV        |
| 0.3              | 4.8               | 9          | 140 mA - 25 KV       |

### IAE HOUSINGS

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNER

MAMMOGRAPHY

HOUSING

# XM1016

Rotating anode mammography X-ray tube, with special bi-angled target, for optimal performances with all techniques. Replaces VARIAN M113SP and M113.

## SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Nominal X-ray tube voltage  | 40 kV                                   |
| Anode angle and diameter    | double angled<br>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 – 10000 rpm                        |

## CHARACTERISTICS

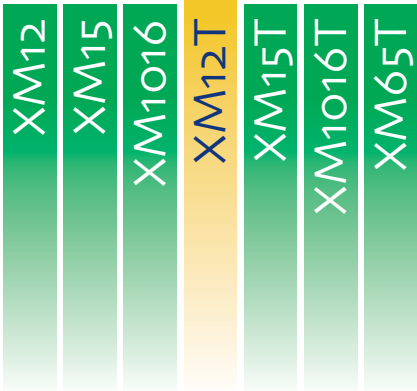
- Two separate focal tracks, small focus on 10° and large focus on 16°, optimal resolution performances
- Replacement for VARIAN M113SP and M113
- Minimum resolution 14x12 lp/mm (width x length)
- Metal center section
- Molybdenum doped target
- Reduced thermal stress on the bearings improves tube life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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | MAX EMISSION CURRENT |
|------------------|-------------------|------------|----------------------|
|                  | low speed         | high speed |                      |
| 0.1              | 0.7               | 1.35       | 35 mA - 25 KV        |
| 0.3              | 2.9               | 4.9        | 140 mA - 25 KV       |

## IAE HOUSINGS

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V





- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNER

## MAMMOGRAPHY

HOUSING

# XM12T

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Nominal X-ray tube voltage  | 49 kV                |
| Anode angle and diameter    | 12.5° - 80 mm        |
| Maximum anode dissipation   | 715 W (57200 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 – 10000 rpm     |

### CHARACTERISTICS

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

### FOCAL SPOTS • mm

0.1  
0.3

### INPUT POWERS • KW

| low speed | high speed |
|-----------|------------|
| 2         | 4          |
| 8         | 16         |

### MAX EMISSION CURRENT

35 mA - 25 KV  
140 mA - 25 KV

### IAE HOUSINGS

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V





- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNER

## MAMMOGRAPHY

HOUSING

# XM15T

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

### SPECIFICATIONS

|                             |                      |
|-----------------------------|----------------------|
| Nominal X-ray tube voltage  | 49 kV                |
| Anode angle and diameter    | 15° - 80 mm          |
| Maximum anode dissipation   | 715 W (57200 HU/min) |
| Anode heat storage capacity | 225 kJ (300 kHU)     |
| Rotating anode speed        | 3000 – 10000 rpm     |

### CHARACTERISTICS

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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | MAX EMISSION CURRENT |
|------------------|-------------------|------------|----------------------|
|                  | low speed         | high speed |                      |
| 0.1              | 2                 | 4          | 35 mA - 25 KV        |
| 0.3              | 8                 | 16         | 140 mA - 25 KV       |

### IAE HOUSINGS

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V







- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNER

**MAMMOGRAPHY**

HOUSING

# XM1016T

Rotating anode mammography X-ray tube, with special bi-angled target, for optimal performances with all techniques.

### SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Nominal X-ray tube voltage  | 49 kV                                   |
| Anode angle and diameter    | double angled<br>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 – 10000 rpm                        |

### CHARACTERISTICS

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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | 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

- C339
- C339E lateral HV and LV sockets, VARIAN version
- C339C coaxial HV and LV sockets, COMET version
- C339V coaxial HV and LV sockets, VARIAN version
- C340V
- C341V





- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNER

**MAMMOGRAPHY**

HOUSING

# XM65T

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

**SPECIFICATIONS**

|                             |                       |
|-----------------------------|-----------------------|
| Nominal X-ray tube voltage  | 49 kV                 |
| Anode angle and diameter    | 15° - 100 mm          |
| Maximum anode dissipation   | 1000 W (80000 HU/min) |
| Anode heat storage capacity | 450 kJ (600 kHU)      |
| Rotating anode speed        | 3000 – 10000 rpm      |

**CHARACTERISTICS**

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

| FOCAL SPOTS • mm | INPUT POWERS • KW |            | MAX EMISSION CURRENT |
|------------------|-------------------|------------|----------------------|
|                  | low speed         | high speed |                      |
| 0.1              | 1.38              | 2.5        | 35 mA - 25 KV        |
| 0.3              | 5.3               | 8.9        | 140 mA - 25 KV       |

**IAE HOUSINGS**

- C341 V



C30

C31

C32

C40

C52

C352

C52SUPER

C100

C100XT

C100XS

C339

C340V

C341V

XK1016T

RELOADING

STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# C30

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

### SPECIFICATIONS

|   |                      |
|---|----------------------|
| Overall length                                    | 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) |
| Minimum tube assembly inherent filtration         | 1.2 mm Al / 75 kV    |
| Maximum leakage radiation at 1 m from focal spots | 0.18 mGy/h           |

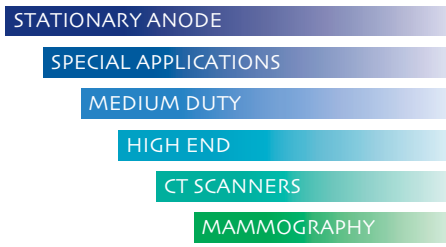
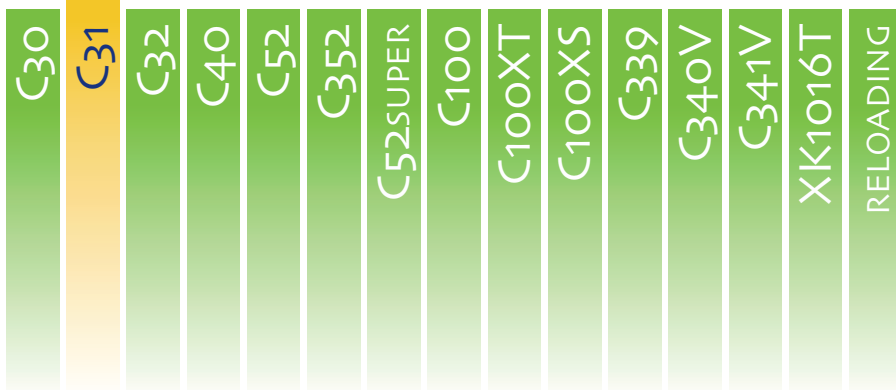
### CHARACTERISTICS

- 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 Claymount type MINI75 4pin
- Solutions for higher dissipation available

### INSERT FOR RELOADING

- X20 P
- RTM70 H/HS
- RTM75 H/HS





## HOUSING

# C31

Rotating anode X-ray tube unit specifically designed for mobile equipment.

Suitable for max. 72 mm anode diameter inserts.

### SPECIFICATIONS

|   |                     |
|---|---------------------|
| Overall length                                    | 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          |

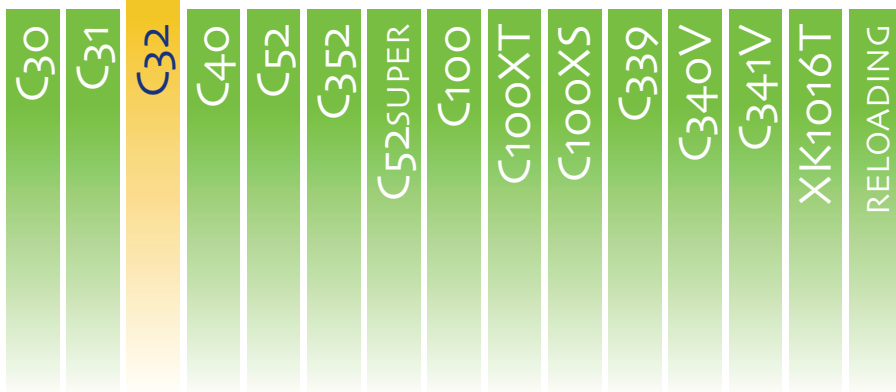
### CHARACTERISTICS

- 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

### INSERT FOR RELOADING

- X22
- RTM30 HS
- RTM72 H/HS
- RTM77 H
- RTM75 H/HS





STATIONARY ANODE

SPECIAL APPLICATIONS

MEDIUM DUTY

HIGH END

CT SCANNERS

MAMMOGRAPHY

HOUSING

# C32

Rotating anode X-ray tube unit specifically designed for mobile C-arm equipment.

Suitable for max. 72 mm anode diameter inserts.

#### SPECIFICATIONS

|   |  |
|---|--|
| Overall length                                    | 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               | with HE30 - 1000 W (80000 HU/min)<br>with HE31 - 1200 W (96000 HU/min) |
| Minimum tube assembly inherent filtration         | 1.2 mm Al / 75 kV  |
| Maximum leakage radiation at 1 m from focal spots | 0.22 mGy/h   |

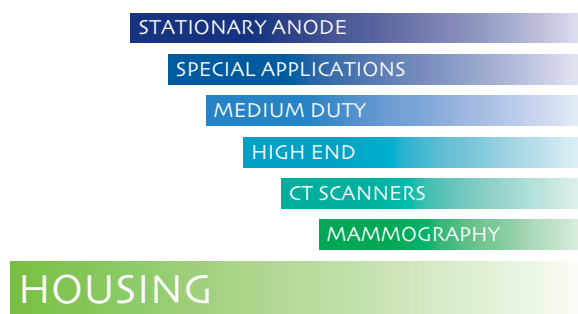
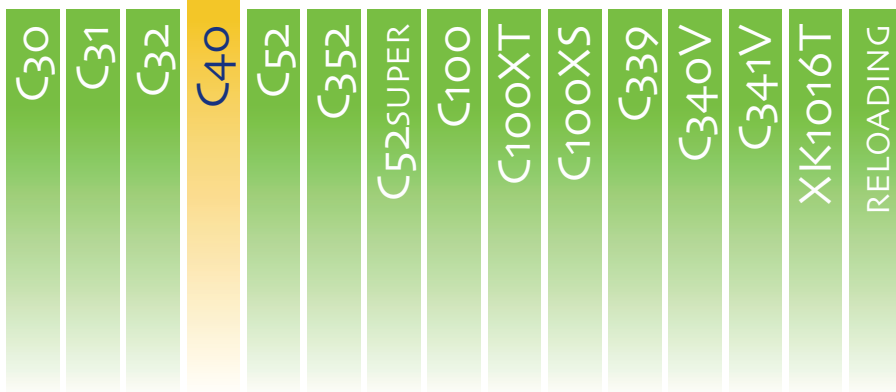
#### CHARACTERISTICS

- 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

#### INSERT FOR RELOADING

- X20 P
- RTM70 H/HS





# C40

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.

## SPECIFICATIONS

|   |                      |
|---|----------------------|
| Overall length                                    | 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           |

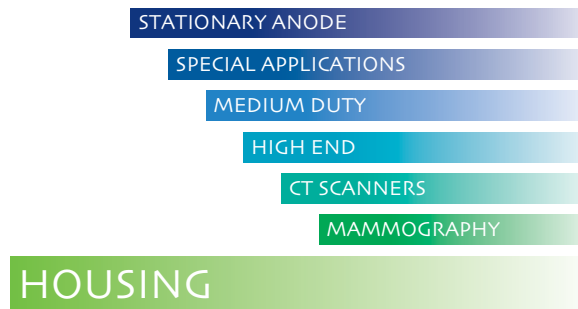
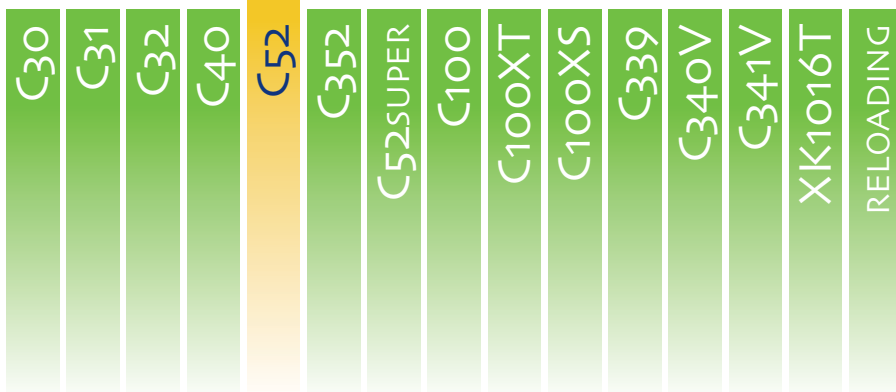
## CHARACTERISTICS

- 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

## INSERT FOR RELOADING

- X39
- X42
- X76





# C52

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.

## SPECIFICATIONS

|   |                      |
|---|----------------------|
| Overall length                                    | 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           |

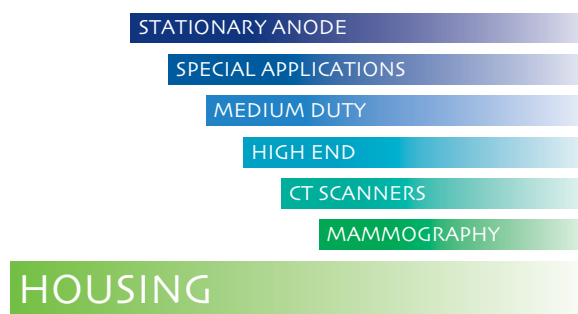
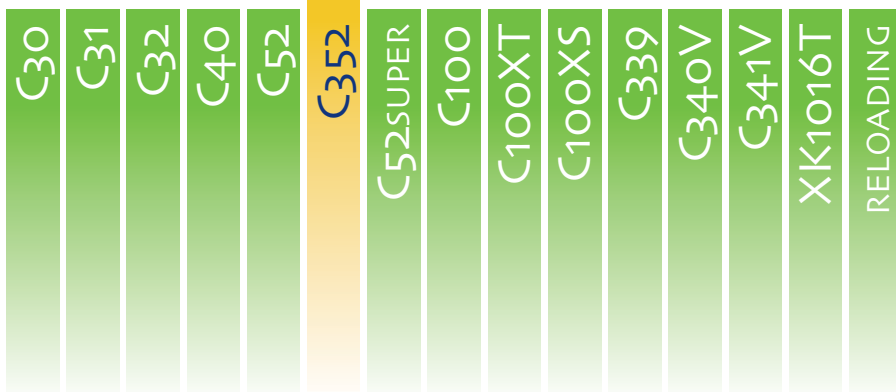
## CHARACTERISTICS

- 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

## INSERT FOR RELOADING

- X40
- X50 H - X50 AH
- RTM 77
- RTM 78 H/HS
- RTM 90 H/HS - RTM 92 H/HS
- RTM 782 H/HS





# C352

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.

## SPECIFICATIONS

|   |                      |
|---|----------------------|
| Overall length                                    | 440 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           |

## CHARACTERISTICS

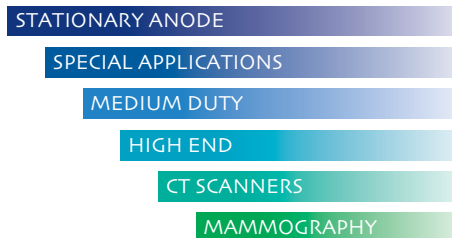
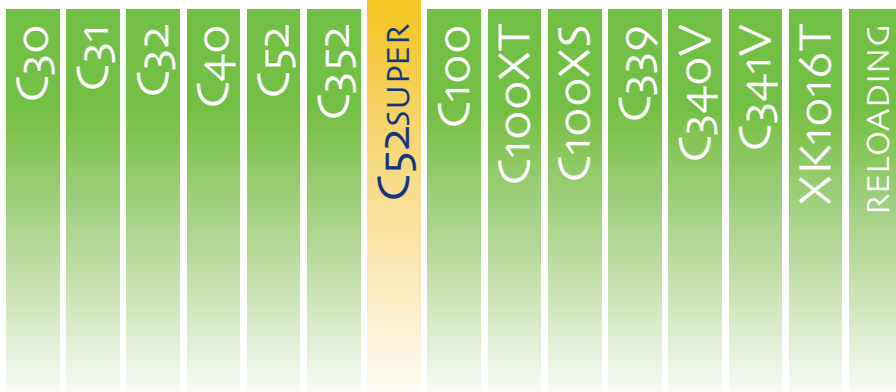
- Lead lined aluminum body.
- Three devices are present for thermal safety:
  - 1 a bimetallic thermal switch, fitted externally on the anode end
  - 2 a bimetallic thermal switch, internally assembled, series connected with stator common cable
  - 3 a pressure microswitch, installed on cathode end,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

## INSERT FOR RELOADING

- X40
- X50 H - X50 AH
- RTM 77
- RTM 78 H/HS
- RTM 90 H/HS - RTM 92 H/HS
- RTM 782 H/HS







## HOUSING

# C52SUPER

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

### SPECIFICATIONS

|   |                      |
|---|----------------------|
| Overall length                                    | 490 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           |

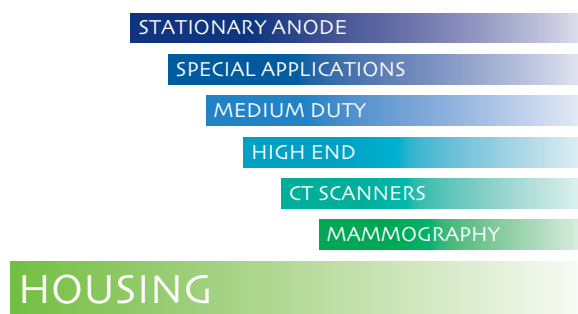
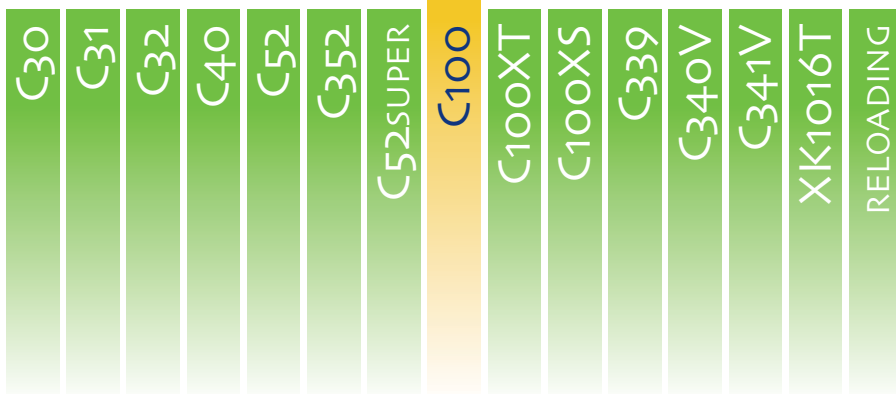
### CHARACTERISTICS

- 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
- Heat exchanger available (1000W dissipation power)

### INSERT FOR RELOADING

- RTM 90 H/HS - RTM 92 H/HS
- RTM 101 H/HS - RTM 102 H/HS
- RTC 600 HS - RTC 700 HS - RTC 1000 HS





# C100

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

## SPECIFICATIONS

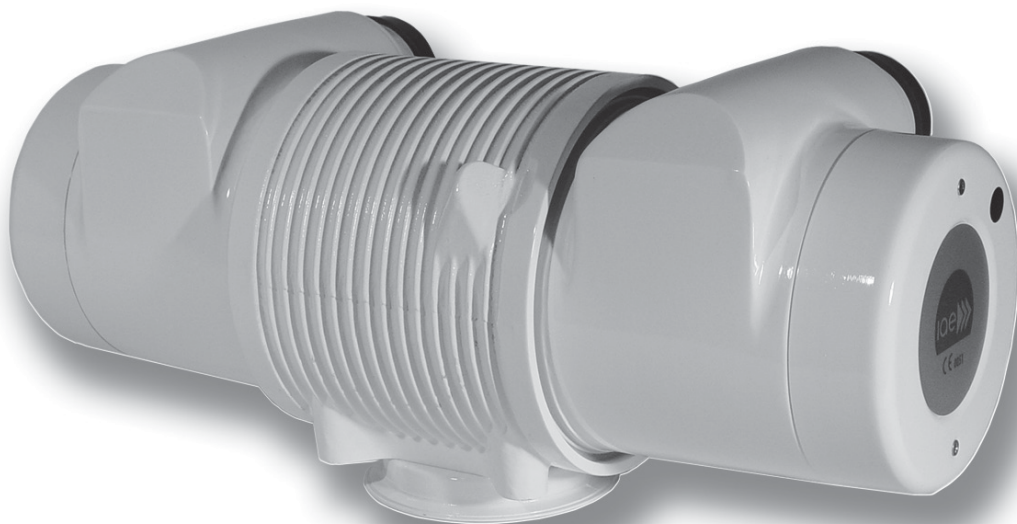
|   |                      |
|---|----------------------|
| Overall length                                    | 520 mm               |
| Maximum diameter                                  | 200 mm               |
| Tube assembly net weight                          | 25 kg                |
| Nominal X-ray 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           |

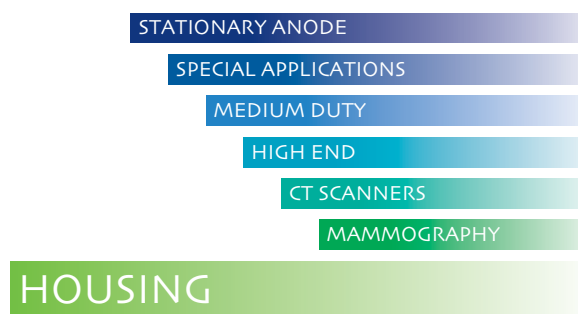
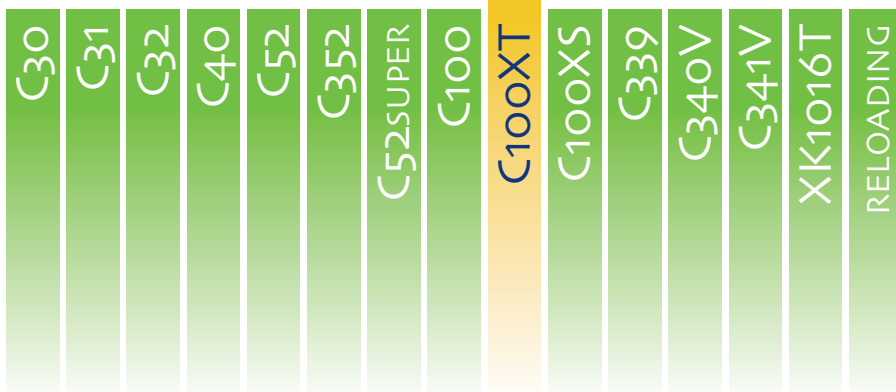
## CHARACTERISTICS

- Lead lined aluminium 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

## INSERT FOR RELOADING

- RTM 90 H/HS - RTM 92 H/HS
- RTM 101 H/HS - RTM 102 H/HS
- RTC 600 HS





# C100XT

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

## SPECIFICATIONS

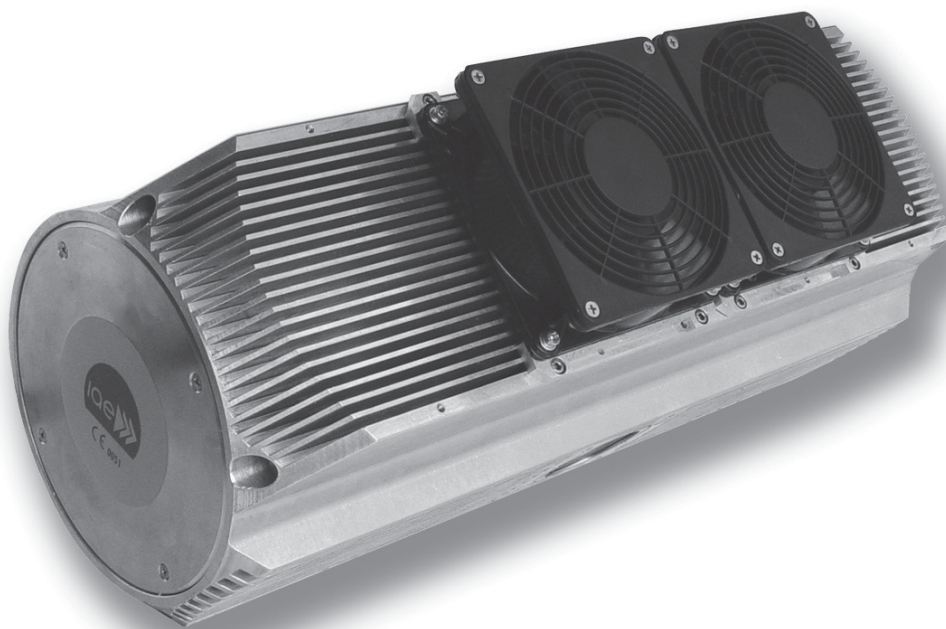
|   |                       |
|---|-----------------------|
| Overall length                                    | 524 mm                |
| Maximum diameter                                  | 190 mm                |
| Tube assembly net weight                          | 29 kg                 |
| Nominal X-ray tube assembly voltage               | 150 kV                |
| Maximum tube assembly heat content                | 1500 KJ (2000 kHU)    |
| Maximum continuous heat dissipation               | 1000 W (80000 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            |

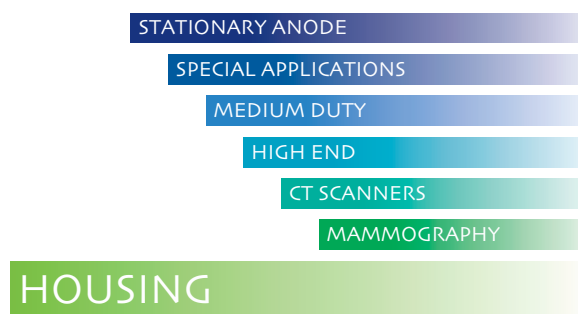
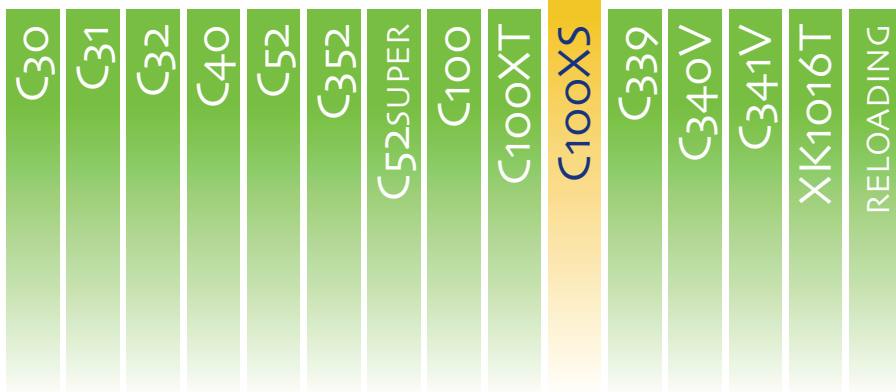
## CHARACTERISTICS

- 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

## INSERT FOR RELOADING

- RTM 101 H/HS
- RTM 102 H/HS
- RTC 600 HS
- RTC 700 HS
- RTC 1000 HS





# C100XS

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.

## SPECIFICATIONS

|   |                                       |
|---|---------------------------------------|
| Overall length                                    | 515 mm                                |
| Maximum diameter                                  | 200 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                            |

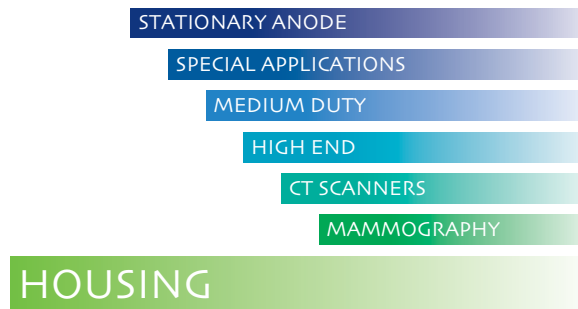
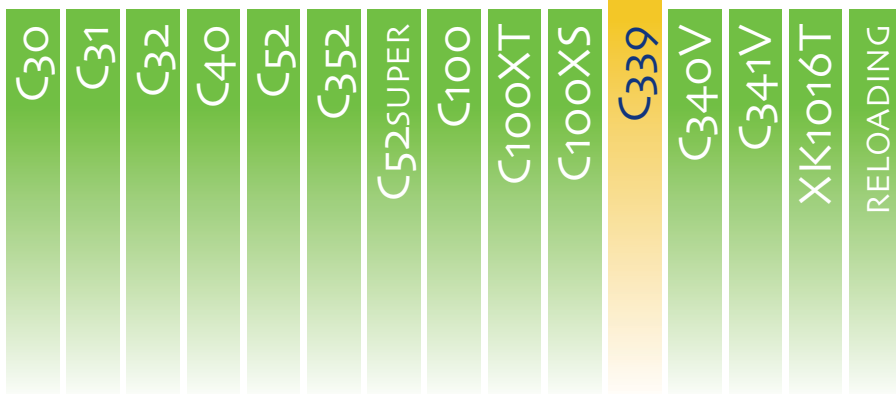
## CHARACTERISTICS

- 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

## INSERT FOR RELOADING

- RTC 600 HS
- RTC 700 HS
- RTC 1000 HS





# C339

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

## SPECIFICATIONS

|   |                    |
|---|--------------------|
| Overall length                                    | 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           |

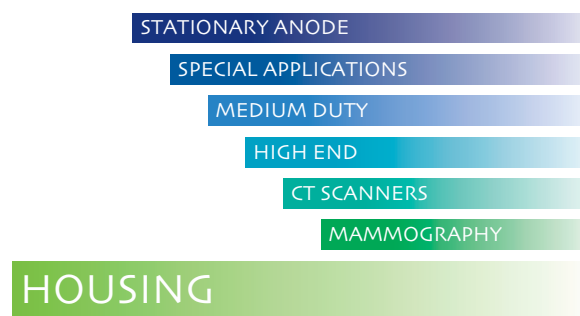
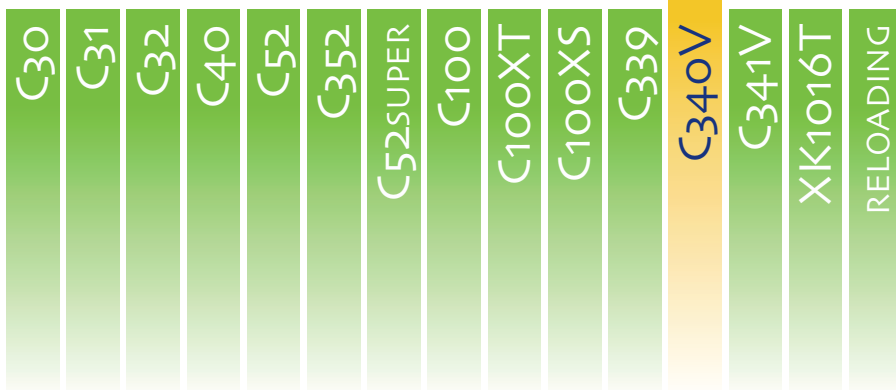
## 3 VERSION AVAILABLE:

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

## INSERT FOR RELOADING

- XM12 - XM12T
- XM15 - XM15T
- XM1016 - XM1016T





# C340V

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 oil circulation system, ensures a heat dissipation three times higher than conventional mammography tube units.

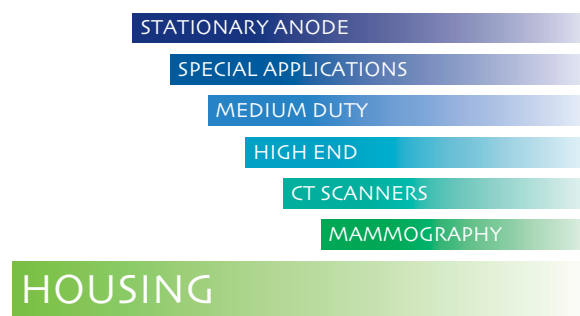
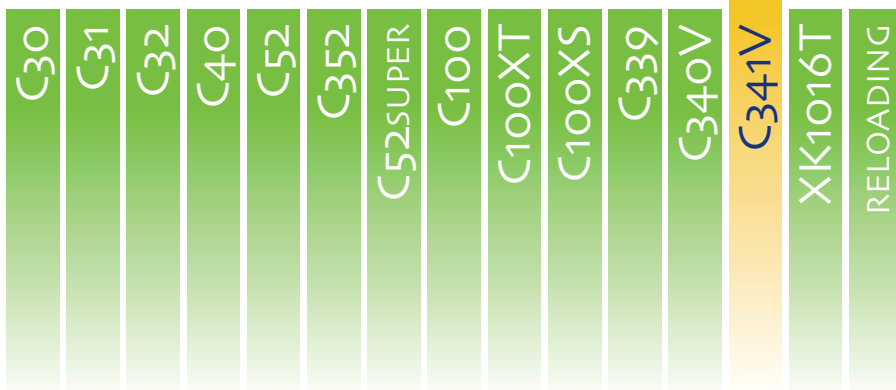
## SPECIFICATIONS

|  |                      |
|--|----------------------|
| Overall length                                     | 340 mm               |
| Maximum diameter                                   | 450 mm               |
| Tube assembly net weight                           | 16 kg                |
| Nominal X-ray tube assembly voltage                | 49 kV                |
| Maximum tube assembly heat content                 | 375 kJ (426 kHU)     |
| Maximum continuous heat dissipation                | 80 W (6400 HU/min)   |
| Maximum continuous heat dissipation with exchanger | 800 W (64000 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

- XM12 - XM12T
- XM15 - XM15T
- XM1016 - XM1016T





# C341V

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 oil circulation system, ensures a heat dissipation three times higher than conventional mammography tube units.

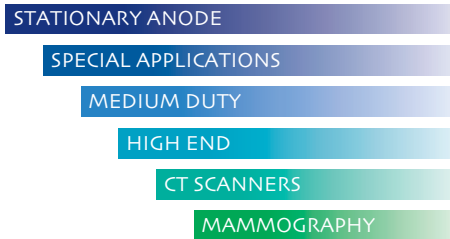
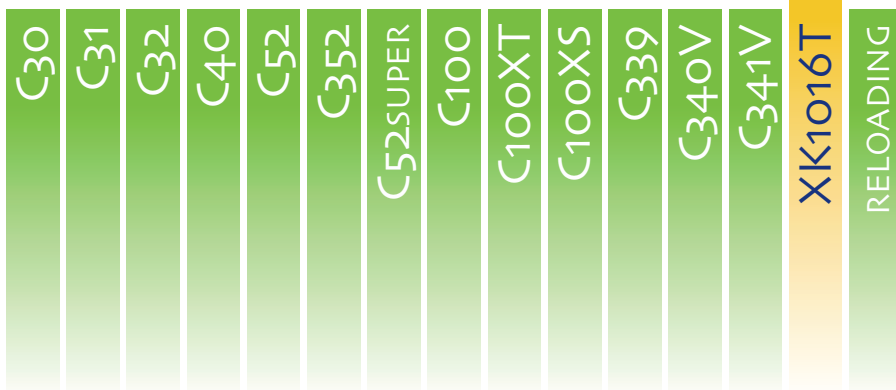
## SPECIFICATIONS

|  |                        |
|--|------------------------|
| Overall length                                     | 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 with exchanger | 1500 W (120000 HU/min) |
| Minimum tube assembly inherent filtration          | 0.5 mm-Be              |
| Maximum leakage radiation at 1 m from focal spots  | 68 $\mu$ Gy/h          |

## INSERT FOR RELOADING

- XM12 - XM12T
- XM15 - XM15T
- XM1016 - XM1016T
- XM65T





## HOUSING

# XK1016T

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 angled<br>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 – 10000 rpm                        |
| Overall length                                    | 305 mm                                  |
| Maximum transverse dimensions                     | 110x155 mm                              |
| Tube assembly net weight                          | 5.5 kg                                  |
| Nominal X-ray tube assembly voltage               | 49 kV                                   |
| Maximum continuous heat dissipation               | 300 W                                   |
| Minimum tube assembly inherent filtration         | 0.5 mm-Be                               |
| Maximum leakage radiation at 1 m from focal spots | 62 µGy/h                                |

### CHARACTERISTICS

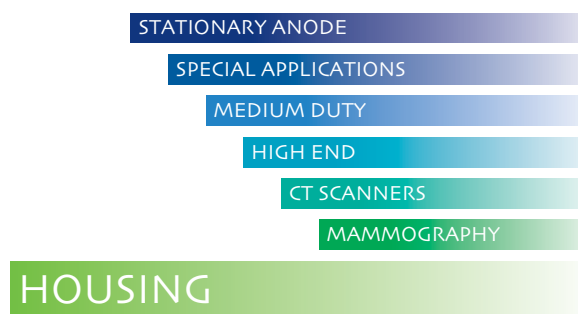
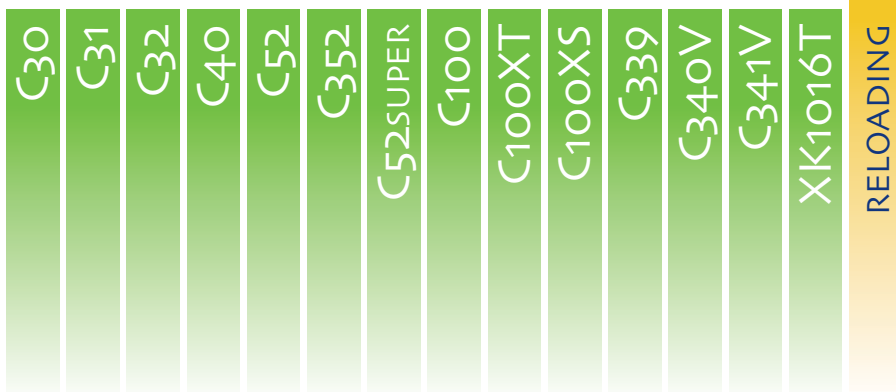
- Compact cool unit optimised for digital mammography and tomosynthesis
- High continuous heat dissipation for high patients throughput
- Two separate focal tracks, small focus on 10° and large focus on 16°, optimal resolution performances
- RTM target
- Reduced thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performance



| FOCAL SPOTS • mm | INPUT POWERS • KW |            | 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       |







## PHILIPS replacements

### Housing

Rotalix 350  
Rotalix 350  
Rotalix 350  
Rotalix 350

### Insert Type

RO 12 30  
RO 17 50  
SRO 25 50  
SRO 33 100

### IAE type

RTM92 HS 0.6/1.2  
RTM90 HS 0.6/1.3  
RTM92 HS 0.6/1.2  
RTM90 HS 0.6/1.3

## SIEMENS replacements

### Housing

100  
100  
100  
100  
100  
100  
100  
100  
100  
100  
(Special rotor version)

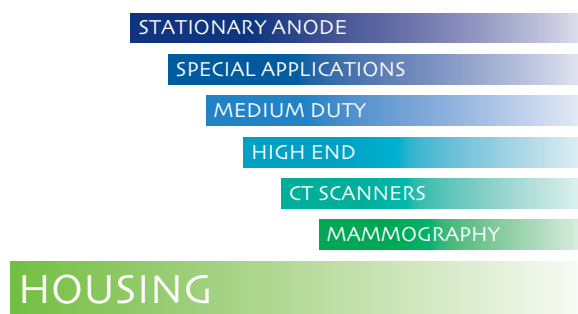
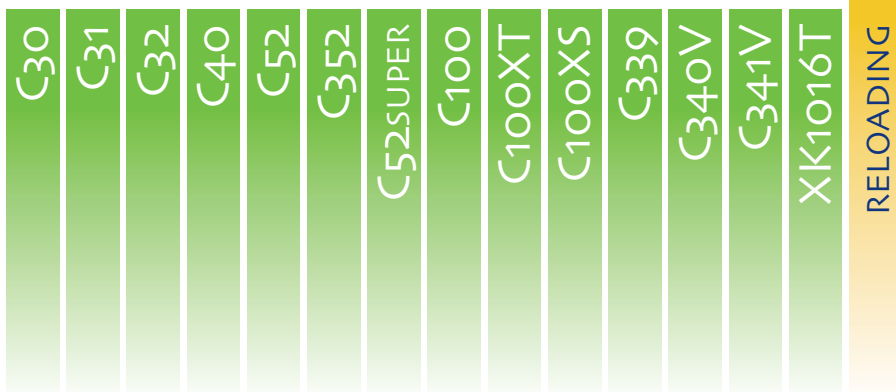
### Insert Type

Opti 150/40/72C  
Opti 150/40/73C  
Opti 150/40/82C  
Opti 150/40/102C  
Optilix 150/40/73C  
Optilix 150/40/82C  
Optilix 150/40/102C  
Optitop 150/40/80HC

### IAE type

RTC600 HS 0.6/1.0  
RTC600 HS 0.6/1.0  
RTC600 HS 0.6/1.2  
RTC600 HS 0.6/1.2  
RTC600 HS 0.6/1.0  
RTC600 HS 0.6/1.2  
RTC600 HS 0.6/1.2  
RTC600 HS 0.6/1.2  
RTC700 HS 0.6/1.0





## CGR replacements

### Housing

Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 240/260  
 Statorix 550  
 Statorix 550  
 Statorix 550  
 J150  
 J150  
 (Special rotor version)

### Insert Type

Major MN640  
 MSN740  
 MSN741  
 MSN742  
 MN642  
 MS740  
 MS742  
 R632  
 RN642  
 RS732  
 RSN742  
 RN620  
 RN622  
 RS722  
 Major Super MS952  
 Major Super MS960

### IAE type

X50 1.0/2.0  
 RTM92 HS 1.0/2.0  
 RTM92 HS 1.0/2.0  
 RTM92 HS 0.6/1.2  
 RTM92 HS 0.6/1.2  
 RTM92 HS 1.0/2.0  
 RTM92 HS 0.6/1.2  
 RTM90 HS 0.6/1.3  
 RTM90 HS 0.6/1.3  
 RTM90 HS 0.6/1.3  
 RTM90 HS 0.6/1.3  
 RTC700 HS 1.0/2.0  
 RTC700 HS 0.6/1.3  
 RTC700 HS 0.6/1.2  
 RTM78 HS 0.6/1.2  
 RTM78 HS 1.0/2.0

## DUNLEE replacements

### Housing

PX1302  
 PX1312  
 PX1351  
 PX1402  
 PX1412  
 PX1429  
 PX1436  
 PX1424  
 PX1463  
 PX1475  
 PX1551  
 \* complete housing only

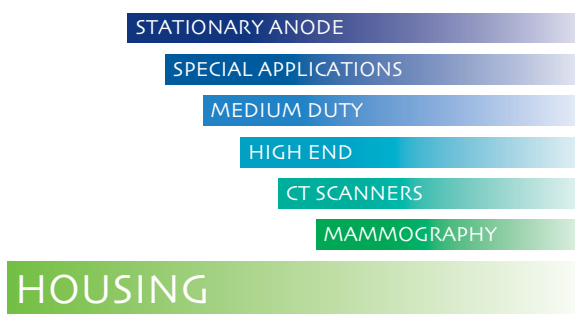
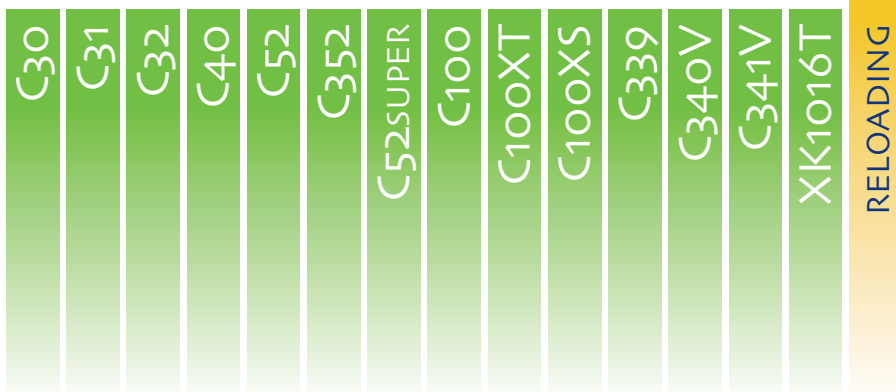
### Insert Type

DU303 1.0/2.0  
 DU303 0.6/1.2  
 DU140 1.0/2.0  
 DU304 1.0/2.0  
 DU304 0.6/1.2  
 DU304 0.6/1.2  
 DU404 0.6/1.2  
 DU304 0.6/1.2  
 DU604 0.6/1.2  
 DU754 0.6/1.2  
 DU1005 0.6/1.2

### IAE type

RTM78 HS 1.0/2.0  
 RTM782 HS 0.6/1.2 \*  
 X40 1.0/2.0  
 RTM102 HS 1.0/2.0  
 RTM101 HS 0.6/1.2  
 RTM101 HS 0.6/1.2  
 RTM101 HS 0.6/1.2  
 RTM101 HS 0.6/1.2  
 RTC600 HS 0.6/1.2  
 RTC700 HS 0.6/1.2  
 RTC1000 HS 0.6/1.2





## VARIAN replacements

### Housing

B113  
 B100  
 B145  
 B130-B150  
 B130-B150  
 B130-B150  
 B130-B150  
 B130-B150  
 B130-B150  
 B130-B150  
 B130-B150  
 Emerald  
 Diamond  
 Diamond  
 Diamond  
 Sapphire  
 ---  
 Sapphire  
 Sapphire  
 Sapphire  
 Sapphire  
 ---  
 ---  
 Sapphire  
 Sapphire  
 ---  
 ---  
 OR-III  
 ---  
 ---  
 B160

### Insert Type

M113SP  
 A100 – A101 – A102  
 A145  
 A150 – A152  
 A190 – A192 – A195  
 A196  
 A197  
 A250 – A252  
 A256  
 A290 – A292  
 G292  
 RAD-8  
 RAD-10  
 RAD-13  
 RAD-14  
 RAD-21  
 RAD-34  
 RAD-40  
 RAD-40  
 RAD-40  
 RAD-40  
 RAD-44  
 RAD-52  
 RAD-52  
 RAD-60  
 RAD-92  
 RAD-95  
 RAD-99  
 SG292B  
 SG296B  
 G1092

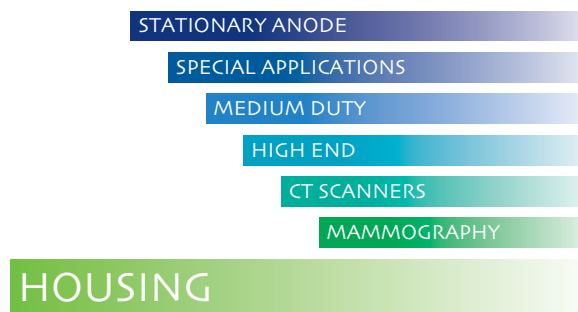
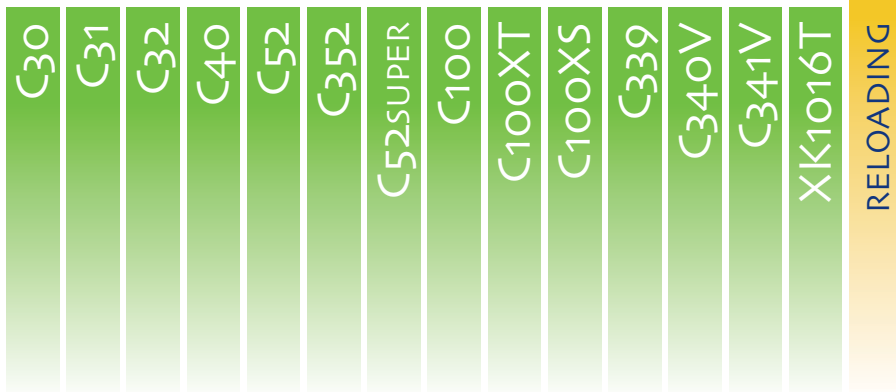
### IAE type

XM1016 0.1/0.3  
 RTM78 HS 1.0/2.0  
 RTM78o H 0.3/0.6  
 RTM102 HS 1.0/2.0  
 RTM101 HS 0.6/1.2  
 RTM101 HS 0.6/1.0  
 RTM101 HS 0.3/0.8  
 RTM102 HS 1.0/2.0  
 RTM102 HS 0.6/1.2  
 RTM101 HS 0.6/1.2  
 RTC600 HS 0.6/1.2  
 X40 1.0/2.0  
 RTM77 0.75/1.25  
 RTM78 HS 1.0/2.0  
 RTM782 HS 0.6/1.2 \*  
 RTM101 HS 0.6/1.2  
 RTM90 HS 0.6/1.2  
 RTM101 HS 0.6/1.0  
 RTM101 HS 0.6/1.2  
 RTM101 HS 0.6/1.5  
 RTM102 HS 1.0/2.0  
 RTC600 HS 0.6/1.0 \*\*  
 RTC600 HS 0.6/1.2 \*\*  
 RTM101 HS 0.6/1.2  
 RTC600 HS 0.6/1.2  
 RTC600 HS 0.6/1.2 \*\*  
 RTM78o H 0.3/0.6  
 RTC600 HS 0.6/1.0 \*\*  
 RTC600 HS 0.6/1.0 \*\*  
 RTC1000 HS 0.6/1.0

\* complete housing only

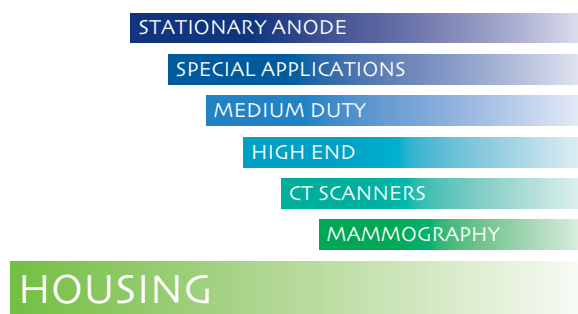
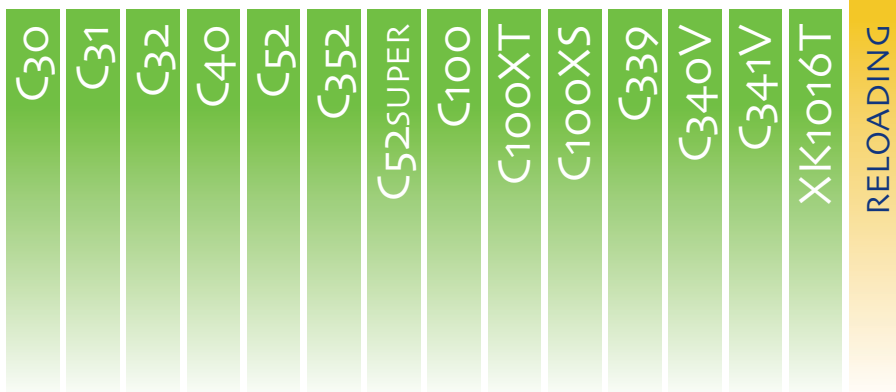
\*\* special rotor version





## COMET replacements

| Housing | Insert Type   | IAE type            |
|---------|---------------|---------------------|
| DO7     | DX7H*         | RTM 78 H 1.0/2.0    |
| DO7     | DX7 20/40-125 | X40 1.0/2.0         |
| DO7     | DX71H/HS      | RTM 78 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     | DX91H/HS      | RTM 92 HS 1.0/2.0   |
| DO9     | DX92 H/HS     | RTM 92 HS 0.6/1.2   |
| DO9     | DX93 H/HS     | RTM 90 HS 0.6/1.5   |
| DO9     | DX94 H/HS     | RTM 90 HS 0.6/1.5   |
| DO9     | DX95 H/HS     | RTM 92 HS 0.6/1.0   |
| DO9     | DX294 H/HS    | RTM 90 HS 0.6/1.5   |
| DO9     | DX295 H/HS    | RTM 92 HS 0.6/1.0   |
| DO9     | DX96 H/HS     | RTM 90 HS 0.6/1.5   |
| DO9     | DX97 H/HS     | RTM 90 HS 0.6/1.2   |
| DO10    | DX10 H/HS     | RTM 102 HS 0.6/1.5  |
| DO10    | DX10 H/HS     | RTM 102 HS 1.0/2.0  |
| DO10    | DX101 H/HS    | RTM 101 HS 0.6/1.0  |
| DO10    | DX101 H/HS    | RTM 101 HS 0.6/1.3  |
| DO10    | DX104 H/HS    | RTM 101 HS 0.6/1.0  |
| DO10    | DX105 H/HS    | RTM 101 HS 0.6/2.0  |
| DO10    | DX124 H/HS    | RTM 101 HS 0.6/1.3  |
| DO10    | DX204 H/HS    | RTM 101 HS 0.6/1.0  |
| DO10    | DX204 H/HS    | RTM 101 HS 0.6/1.3  |
| DO10    | DX304 H/HS    | RTM 101 HS 0.6/1.2  |
| DO10    | DX106 H/HS    | RTC 600 HS 0.6/1.0  |
| DO10    | DX106 H/HS    | RTC 600 HS 0.6/1.3  |
| DO10    | DX226 H/HS    | RTC 600 HS 0.6/1.3  |
| DO10    | DX228 H/HS    | RTC 600 HS 1.0/2.0  |
| DO700WX | DX700 H/HS    | RTC 700 HS 0.6/1.2  |
| DO700WX | DX700 H/HS    | RTC 700 HS 1.0/2.0  |
| DO700WX | DX1000 H/HS   | RTC 1000 HS 0.6/1.2 |
| DO700WX | DX1010 H/HS   | RTC 1000 HS 0.6/1.2 |



## SHIMADZU replacements

Housing  
RX-25-30  
RX-25-30  
RX-80  
RX-80  
RX-80  
RX-80  
RX-80  
RX-80  
RX-80  
RX-100  
RX-100

Insert Type  
1.2UG13CN  
1/2U13BN  
1/2P13C  
1/2P33C  
1/2P18C  
1/2P38C  
0.6/1.2P18C  
0.6/1.2P38D  
0.6/1.2P17CK  
0.6/1.2P37CK

IAE type  
X40 G 1.2  
X40 1.0/2.0  
RTM92 HS 1.0/2.0  
RTM92 HS 1.0/2.0  
RTM90 HS 1.0/2.0  
RTM90 HS 1.0/2.0  
RTM90 HS 0.6/1.2  
RTM90 HS 0.6/1.2  
RTM102 HS 0.6/1.2  
RTM102 HS 0.6/1.2

## TOSHIBA replacements

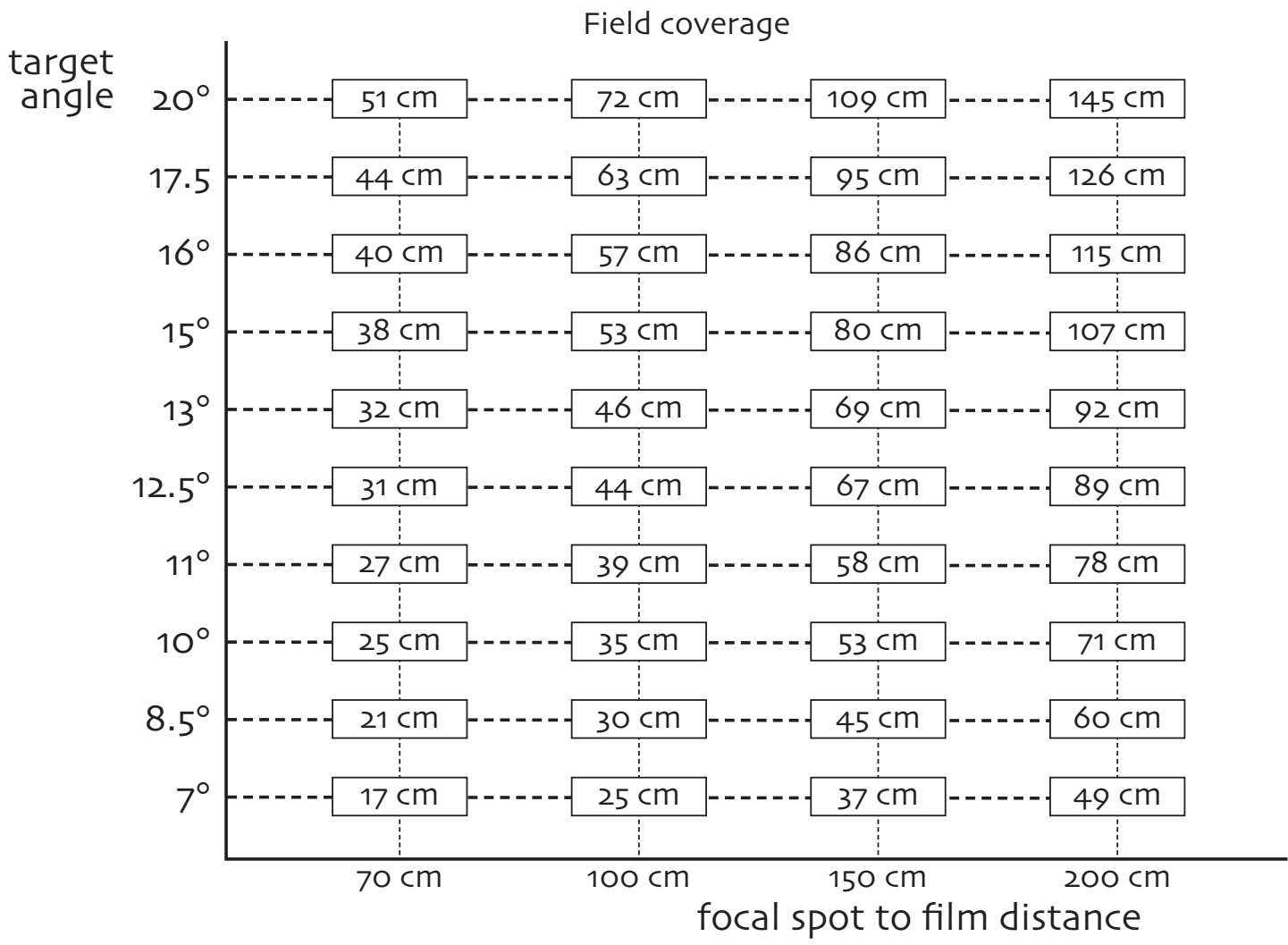
Insert Type  
E7239X  
E7242X  
E7876X  
E7252X  
E7813X  
E7255X  
E7254X  
E7823FX  
E7864X  
E7869X

IAE Type  
X39 1.0/2.0  
X42 0.6/1.5  
X76 0.6/1.2  
RTM 782 HS 0.6/1.2  
RTM 78 HS 1.0/2.0  
RTM 101 HS 0.6/1.2  
RTM 101 HS 0.6/1.2  
RTM 102 HS 0.6/1.2  
RTM 101 HS 0.6/1.2  
RTC 600 HS 0.6/1.2



- C30
- C31
- C32
- C40
- C52
- C352
- C52SUPER
- C100
- C100XT
- C100XS
- C339
- C340V
- C341V
- XK1016T
- RELOADING

- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNERS
- MAMMOGRAPHY
- HOUSING



$$\text{Field coverage} = 2 \times \tan(\text{angle}) \times \text{distance}$$



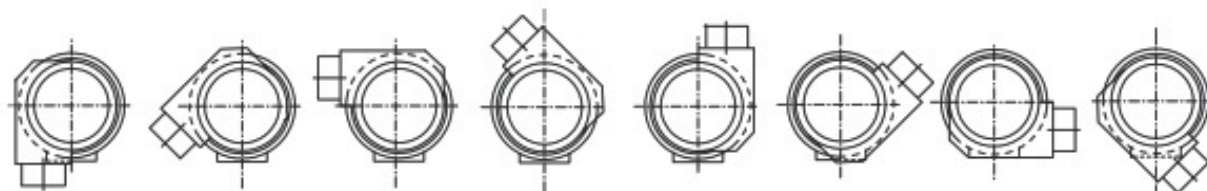
- C30
- C31
- C32
- C40
- C52
- C352
- C52SUPER
- C100
- C100XT
- C100XS
- C339
- C340V
- C341V
- XK1016T

RELOADING

- STATIONARY ANODE
- SPECIAL APPLICATIONS
- MEDIUM DUTY
- HIGH END
- CT SCANNERS
- MAMMOGRAPHY

HOUSING

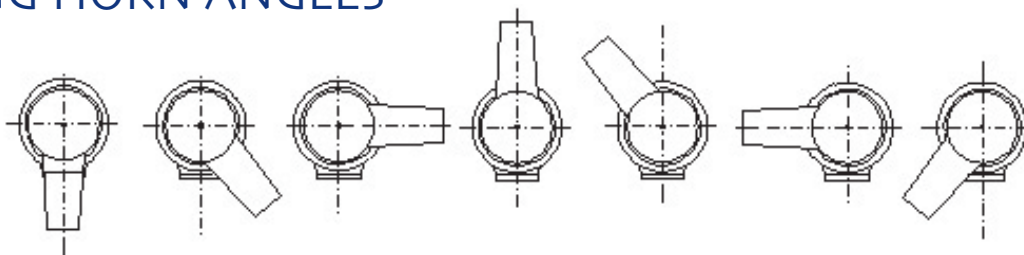
## IAE HOUSING HORN ANGLES



VIEW FROM ANODE SIDE

| ANGLE     | 0°     | 45°     | 90°<br>standard     | 135°     | 180°     | 225°     | 270°     | 315°     |
|-----------|--------|---------|---------------------|----------|----------|----------|----------|----------|
| C352      | C352_0 | C352_45 | C352_90<br>standard | C352_135 | C352_180 | C352_225 | C352_270 | C352_315 |
| C52       | C52_0  | C52_45  | C52_90<br>standard  | C52_135  | C52_180  | C52_225  | C52_270  | C52_315  |
| C52 SUPER | C52S_0 | C52S_45 | C52S_90<br>standard | C52S_135 | C52S_180 | C52S_225 | C52S_270 | C52S_315 |
| C100      | C100_0 | C100_45 | C100_90             | C100_135 | C100_180 | C100_225 | C100_270 | C100_315 |

## CGR HOUSING HORN ANGLES



VIEW FROM ANODE SIDE

| ANGLE IAE | 0°    | 320°   | 270°   | 180°    | 140°    | 90°     | 40°     |
|-----------|-------|--------|--------|---------|---------|---------|---------|
| ANGLE CGR | 0°    | 40°    | 90°    | 180°    | 220°    | 270°    | 320°    |
| IAE CODE  | CGR_0 | CGR_40 | CGR_90 | CGR_180 | CGR_220 | CGR_270 | CGR_320 |



## X-RAY TUBES WARRANTY

IAE 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 prorated 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)

Warranty period is twenty-four (24) months prorata from date of installation but in no event later than 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:

$$\frac{\text{Number of months/slices warranted (minus) Number of months/slices used}}{\text{Number of months/slices warranted}} = \% \text{ (multiplied) by Purchase Price}$$

$$\text{Therefore: Price of new tube (minus) Prorated Credit} = \text{Price of Replacement Tube}$$

### 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.

