

CERTIFICATE NO. ZA/SAHPRA 0003/B(U)-96
PACKAGE DESIGN APPROVAL
Exertus ITS 135

This is to certify that the South African Health Products Regulatory Authority (SAHPRA), being, for the purpose of the International Atomic Energy Agency (IAEA), the Competent Authority in the Republic of South Africa, in respect of the transport of radioactive material, has certified the package design, as described herein, as having met the regulatory requirements for Type B(U) packages as described in the IAEA Safety Standards Series No. SSR-6 (Rev.1), Regulations for the Safe Transport of Radioactive Material, 2018 Edition, Vienna, 2018.

1. Certificate

Effective Date: 1 January 2025

Expiry Date: 31 December 2029

2. Competent Authority

SAHPRA

3. This certificate is issued on the basis of the application submitted by:

Gammatec NDT Supplies SOC Ltd
Vision 21 Industrial Park
Steel Road, Peacehaven
Vereeniging 1939
Republic of South Africa

4. Title and Identification of Reports and Drawings

4.1. Reports

The safety case for the package design comprises of the following reports-

| Document Number | Rev | Date | Title/Description |
|------------------------|------------|-----------------|--|
| GEROTEK 18380 | 1 | 10 October 2024 | Performance and design evaluation – Industrial Radiography Container |
| 7.1.19.0 | 0 | October 2024 | EXERTUS ITS 135 & ITS 81 PACKAGE DESIGN SAFETY REPORT |

4.2 Drawings

The package is fabricated in accordance with the following drawings-

Tabel 1:

| Exertus ITS Master Drawing List | |
|--|--|
| Drawing No. | Item Description |
| CAP-ASC0002 ITS135/81 | Rear Protective Cap - Assembled |
| CAP-SC0334 | ITS135/81 Rear Protective Cap - Machined |
| CHAIN-SC0343 (OFF THE SHELF) | ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links |
| SEAL-SS0442 (OFF THE SHELF) | ITS 135/81 Rear Protective Cap Silicone O-ring (Ø4 x 274mm) |
| SCREW-SS0435 (OFF THE SHELF) | M3 X 8 Cheese Slot Screw - SS |
| FLANGE-ASF0010 ITS135/81 | Intermediate Flange - Assembled |
| PLATE-ASP0007 | ITS 135/81 Slider Plate - Assembled |
| DISC-ASD0001 | ITS 135/81 Locking Disc - Assembled |
| FLANGE-SF0128 | ITS135/81 Intermediate Flange - Machined |
| BOLT-SB0452 | ITS135/81 Intermediate Flange Locking Bolt |
| SPRING-SS0446 | ITS135/81 Intermediate Flange Locking Bolt Spring |
| PIN-SP0233 | ITS135/81 Intermediate Flange Locking Bolt Pressure Pin |
| SCREW-SS0436 (OFF THE SHELF) | M2 X 6 Set Screw - A2 SS |
| SCREW-SS0453 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M5 x 10 A2/A4 DIN 912 |
| PIN-SP0234 | ITS135/81 Intermediate Flange Spring Guide Pin |
| SPRING-SS0447 | ITS135/81 Intermediate Flange Slider Plate Spring |
| LATCH-SL0095 | ITS135/81 Intermediate Flange Snap-in Latch |
| AXLE-SA0066 | ITS135/81 Intermediate Flange Snap-in Latch Axle |
| SPRING-SS0464 | ITS135/81 Snap-in Latch Spring |
| CAP-ASC0003 ITS135/81 | Rear Cap - Assembled |
| CAP-SC0335 | ITS135/81 Rear Cap - Machined |
| LOCK-SL0023 (OFF THE SHELF) | Dual 120 /TSI Lock 8.675.178 |
| KEY-NCK0008 | Exertus Security Lock Key |
| BOLT-SB0453 | ITS135/81 Rear Cap Attachment Bolt 1 |
| BOLT-SB0454 | ITS135/81 Rear Cap Attachment Bolt 2 |
| RING-SR0106 | ITS135/81 Rear Cap Guide Ring |
| CONNECTOR-SC0339 | ITS135/81 Rear Cap Connector |
| PIN-SP0235 | ITS135/81 Rear Cap Unlocking Pin |
| SPRING-SS0448 | ITS135/81 Rear Cap Unlocking Pin Spring |
| SCREW-SS0437 (OFF THE SHELF) | CSK Star Point Screw M3 x 14 A2 SS |

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|-------------------------------|--|
| Screw-SS0071 (OFF THE SHELF) | Dual 120 CSK Star Point Screw (M3 x 6 SS) |
| Pin-SP0236 (OFF THE SHELF) | Dowel Pin (2.5 x 6 SS) |
| Washer-SW0047 (OFF THE SHELF) | ITS135/81 Rear Cap Unlocking Pin Retaining Washer (Ø2,3 C67 DIN6799) |
| BAR-ASB0002 ITS135/81 | Locking Bar- Assembly |
| SCREW-SS0434 | ITS135/81 Locking Bar Adjusting Screw |
| BUSH-SB0455 | ITS135/81 Locking Bar Bushing |
| BAR-SB0449 | ITS135/81 Locking Bar |
| SPRING-SS0449 | ITS135/81 Locking Bar Pressure Spring |
| PIN-SP0237 (OFF THE SHELF) | Ø2mm x 10 long Slotted Spring Pin SS304 |

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|---------------------------------|---|
| Washer-SW0048 (OFF THE SHELF) | Washer -2.3 ID A2 SS DIN125 |
| SHIELD-ASS0008 ITS135 | Radiation Protection Unit - Assembly |
| SHIELD-ASS0009 | ITS135 Depleted Uranium Shielding - Assembled |
| SLEEVE-SS0443 | ITS135/81 Sliding Sleeve |
| FLANGE-SF0129 | ITS135/81 Radiation Protection Unit Centre Flange |
| FLANGE-SF0130 | ITS135/81 Radiation Protection Unit Rear Flange |
| BAR-SB0450 | ITS135 Radiation Protection Unit Towing Bar 1 |
| BAR-SB0459 | ITS135/81 Towing Bar II |
| SCREW-SS0438 (OFF THE SHELF) | Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS |
| SCREW-SS0439 (OFF THE SHELF) | Flat Head CSK Screw, M6 x 14 - A2/A4 SS |
| SHIELD-ASS0011 ITS81 | Radiation Protection Unit - Assembly |
| SHIELD-ASS0012 | ITS81 Depleted Uranium Shielding - Assembled |
| SLEEVE-SS0443 | ITS135/81 Sliding Sleeve |
| FLANGE-SF0129 | ITS135/81 Radiation Protection Unit Centre Flange |
| FLANGE-SF0130 | ITS135/81 Radiation Protection Unit Rear Flange |
| BAR-SB0450 | ITS135 Radiation Protection Unit Towing Bar 1 |
| BAR-SB0459 | ITS135/81 Towing Bar II |
| SCREW-SS0438 (OFF THE SHELF) | Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS |
| SCREW-SS0439 (OFF THE SHELF) | Flat Head CSK Screw, M6 x 14 - A2/A4 SS |
| FLANGE-ASF0011 ITS135/81 | Front Flange - Assembled |
| FLANGE-SF0131 | ITS135/81 Front Flange |
| SLEEVE-SS0444 | ITS135/81 Front Flange Guide Sleeve |
| LEVER-SL0096 | ITS135/81 Front Flange Tipping Lever |
| DISC-SD0016 | ITS135/81 Front Flange Shielding Disc |
| Screw-SS0440 (OFF THE SHELF) | CSK Star Point Screw (M3 x 8 SS) |
| PIN-SP0237 (OFF THE SHELF) | Ø2mm x 10 long Slotted Spring Pin SS304 |
| HANDLE-ASH0017 ITS135/81 | Handle Tube - Assembled |
| HANDLE-SH0123 | ITS135/81 Handle Tube - Powder Coated (Blue RAL 5013) |
| PLUG-SP0240 | ITS135/81 Handle and Base Tube Threaded Insert |
| TUBE-AST0002 ITS135/81 | Base Tube - Assembled |

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|---|--|
| HANDLE-SH0123 | ITS135/81 Base Tube - Sandblasted (Fine) |
| PLUG-SP0240 | ITS135/81 Handle and Base Tube Threaded Insert |
| CAP-ASC0008 ITS135/81 | Front Cap - Assembled |
| CAP-SC0340 | ITS135/81 Front Cap - machined |
| CONNECTOR-SC0344 | ITS135/81 Front Connector |
| PIN-SP0243 | ITS135/81 Pressure Pin |
| PLATE-SP0244 | ITS135/81 Plate - 3 year examination |
| SCREW-SS0450 (OFF THE SHELF) | Pan Head Screw - M4 x 8 A2/A4 SS |
| CAP-ASC0009 ITS135/81 | Front Protective Cap - Assembled |
| CAP-SC0341 | ITS135/81 Front Protective Cap |
| CHAIN-SC0343 (OFF THE SHELF) | ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links |
| SEAL-SS0452 (OFF THE SHELF) | ITS 135/81 Front Protective Cap Rubber O-ring (Ø2,5 x 15mm) |
| SCREW-SS0450 (OFF THE SHELF) | Pan Head Screw - M4 x 8 A2/A4 SS |
| WASHER-SW0049 (OFF THE SHELF) | M4 Flat Washer - A2/A4 SS |
| SHELL-ASS0010 ITS135/81 | Rear Handle Shell - Assembled |
| LEVER-ASL0010 | ITS135/81 Release Lever - Assembled |
| PLATE-ASP0010 | ITS135/81 Rear Handle Shell Window - Assembled |
| SHELL-SH0465 | ITS135/81 Rear Handle Shell |
| BUSH-SB0457 | ITS135/81 Release Lever Flange Bush |
| Various Components required for Final Assembly | |
| Tube-ST0103 | ITS135/81 Radiation Protection Tube |
| RING-SR0109 | ITS135/81 Radiation Protection Tube Threaded Ring |
| DISC-SD0018 | ITS135/81 Radiation Protection Tube Disc |
| TUBE-ST0104 | ITS135/81 Radiation Protection Spiral Tube |
| PLATE-SP0247 | ITS135 Nameplate |
| PLATE-SP0248 | ITS81 Nameplate |
| SLEEVE-SS0467 | ITS135/81 Shielding Unit Sleeve |
| SCREW-SS0454 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M8 x 20 A2/A4 DIN 912 |
| SCREW-SS0455 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M8 x 25 A2/A4 DIN 912 |
| SCREW-SS0458 (OFF THE SHELF) | Pan HD Screw - M3 x 8 A2/A4 DIN 7985 |
| SCREW-SS0459 (OFF THE SHELF) | Pan HD Screw - M3 x 6 A2/A4 DIN 7985 |
| SCREW-SS0460 (OFF THE SHELF) | Pan HD Screw - M4 x 20 A2/A4 DIN 7985 |
| SHELL-SS0466 | ITS135/81 Front Handle Shell |
| SCREW-SS0456 (OFF THE SHELF) | Set Screw - M2 x 6 A2/A4 DIN 913 |
| PIGTAIL-NCP0458 ITS135/81 | Link Type Pigtail |
| LINK-SL0036 | ITS Series Pigtail Link Tungsten 9mm long |
| LINK-SL0039 | TSI Series Pigtail Link S/Steel 16mm |
| LINK-SL0037 | TSI Series Pigtail Link Tungsten 22.95mm long |
| LINK-SL0040 | TSI Series Pigtail Slider Link |
| CAPSULE-SC0108 | TSI Series Pigtail Source Capsule - Engraved |

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| PIN-SP0037 (OFF THE SHELF) | Coil Spring Pin S/S(CLDP 2.5 X 6.4 HDK-203471) Dual/TSI/Ti Pigtail |
| RECEPTOR-SR0027 | TSI Series Pigtail B/point Receptor - Engraved & Welded |
| Projector ITS 135/81 | |
| PROJ-CP0025 | Exertus ITS 135 Isotope Projector |
| PROJ-CP0030 | Exertus ITS 81 Isotope Projector |

| Exertus ITS Master Drawing List | |
|--|--|
| Drawing No. | Item Description |
| CAP-ASC0002 ITS135/81 | Rear Protective Cap - Assembled |
| CAP-SC0334 | ITS135/81 Rear Protective Cap - Machined |
| CHAIN-SC0343 (OFF THE SHELF) | ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links |
| SEAL-SS0442 (OFF THE SHELF) | ITS 135/81 Rear Protective Cap Silicone O-ring (Ø4 x 274mm) |
| SCREW-SS0435 (OFF THE SHELF) | M3 X 8 Cheese Slot Screw - SS |
| FLANGE-ASF0010 ITS135/81 | Intermediate Flange - Assembled |
| PLATE-ASP0007 | ITS 135/81 Slider Plate - Assembled |
| DISC-ASD0001 | ITS 135/81 Locking Disc - Assembled |
| FLANGE-SF0128 | ITS135/81 Intermediate Flange - Machined |
| BOLT-SB0452 | ITS135/81 Intermediate Flange Locking Bolt |
| SPRING-SS0446 | ITS135/81 Intermediate Flange Locking Bolt Spring |
| PIN-SP0233 | ITS135/81 Intermediate Flange Locking Bolt Pressure Pin |
| SCREW-SS0436 (OFF THE SHELF) | M2 X 6 Set Screw - A2 SS |
| SCREW-SS0453 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M5 x 10 A2/A4 DIN 912 |
| PIN-SP0234 | ITS135/81 Intermediate Flange Spring Guide Pin |
| SPRING-SS0447 | ITS135/81 Intermediate Flange Slider Plate Spring |
| LATCH-SL0095 | ITS135/81 Intermediate Flange Snap-in Latch |
| AXLE-SA0066 | ITS135/81 Intermediate Flange Snap-in Latch Axle |
| SPRING-SS0464 | ITS135/81 Snap-in Latch Spring |
| CAP-ASC0003 ITS135/81 | Rear Cap - Assembled |
| CAP-SC0335 | ITS135/81 Rear Cap - Machined |
| LOCK-SL0023 (OFF THE SHELF) | Dual 120 /TSI Lock 8.675.178 |
| KEY-NCK0008 | Exertus Security Lock Key |
| BOLT-SB0453 | ITS135/81 Rear Cap Attachment Bolt 1 |
| BOLT-SB0454 | ITS135/81 Rear Cap Attachment Bolt 2 |
| RING-SR0106 | ITS135/81 Rear Cap Guide Ring |
| CONNECTOR-SC0339 | ITS135/81 Rear Cap Connector |
| PIN-SP0235 | ITS135/81 Rear Cap Unlocking Pin |
| SPRING-SS0448 | ITS135/81 Rear Cap Unlocking Pin Spring |

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| SCREW-SS0437 (OFF THE SHELF) | CSK Star Point Screw M3 x 14 A2 SS |
| Screw-SS0071 (OFF THE SHELF) | Dual 120 CSK Star Point Screw (M3 x 6 SS) |
| Pin-SP0236 (OFF THE SHELF) | Dowel Pin (2.5 x 6 SS) |
| Washer-SW0047 (OFF THE SHELF) | ITS135/81 Rear Cap Unlocking Pin Retaining Washer (Ø2,3 C67 DIN6799) |
| BAR-ASB0002 ITS135/81 | Locking Bar- Assembly |
| SCREW-SS0434 | ITS135/81 Locking Bar Adjusting Screw |
| BUSH-SB0455 | ITS135/81 Locking Bar Bushing |
| BAR-SB0449 | ITS135/81 Locking Bar |
| SPRING-SS0449 | ITS135/81 Locking Bar Pressure Spring |
| PIN-SP0237 (OFF THE SHELF) | Ø2mm x 10 long Slotted Spring Pin SS304 |

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|---------------------------------|---|
| Washer-SW0048 (OFF THE SHELF) | Washer -2.3 ID A2 SS DIN125 |
| SHIELD-ASS0008 ITS135 | Radiation Protection Unit - Assembly |
| SHIELD-ASS0009 | ITS135 Depleted Uranium Shielding - Assembled |
| SLEEVE-SS0443 | ITS135/81 Sliding Sleeve |
| FLANGE-SF0129 | ITS135/81 Radiation Protection Unit Centre Flange |
| FLANGE-SF0130 | ITS135/81 Radiation Protection Unit Rear Flange |
| BAR-SB0450 | ITS135 Radiation Protection Unit Towing Bar 1 |
| BAR-SB0459 | ITS135/81 Towing Bar II |
| SCREW-SS0438 (OFF THE SHELF) | Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS |
| SCREW-SS0439 (OFF THE SHELF) | Flat Head CSK Screw, M6 x 14 - A2/A4 SS |
| SHIELD-ASS0011 ITS81 | Radiation Protection Unit - Assembly |
| SHIELD-ASS0012 | ITS81 Depleted Uranium Shielding - Assembled |
| SLEEVE-SS0443 | ITS135/81 Sliding Sleeve |
| FLANGE-SF0129 | ITS135/81 Radiation Protection Unit Centre Flange |
| FLANGE-SF0130 | ITS135/81 Radiation Protection Unit Rear Flange |
| BAR-SB0450 | ITS135 Radiation Protection Unit Towing Bar 1 |
| BAR-SB0459 | ITS135/81 Towing Bar II |
| SCREW-SS0438 (OFF THE SHELF) | Hex. Socket Head Cap Screw, M6 x 14 - A2/A4 SS |
| SCREW-SS0439 (OFF THE SHELF) | Flat Head CSK Screw, M6 x 14 - A2/A4 SS |
| FLANGE-ASF0011 ITS135/81 | Front Flange - Assembled |
| FLANGE-SF0131 | ITS135/81 Front Flange |
| SLEEVE-SS0444 | ITS135/81 Front Flange Guide Sleeve |
| LEVER-SL0096 | ITS135/81 Front Flange Tipping Lever |
| DISC-SD0016 | ITS135/81 Front Flange Shielding Disc |
| Screw-SS0440 (OFF THE SHELF) | CSK Star Point Screw (M3 x 8 SS) |
| PIN-SP0237 (OFF THE SHELF) | Ø2mm x 10 long Slotted Spring Pin SS304 |
| HANDLE-ASH0017 ITS135/81 | Handle Tube - Assembled |
| HANDLE-SH0123 | ITS135/81 Handle Tube - Powder Coated (Blue RAL 5013) |
| PLUG-SP0240 | ITS135/81 Handle and Base Tube Threaded Insert |

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|---|--|
| TUBE-AST0002 ITS135/81 | Base Tube - Assembled |
| HANDLE-SH0123 | ITS135/81 Base Tube - Sandblasted (Fine) |
| PLUG-SP0240 | ITS135/81 Handle and Base Tube Threaded Insert |
| CAP-ASC0008 ITS135/81 | Front Cap - Assembled |
| CAP-SC0340 | ITS135/81 Front Cap - machined |
| CONNECTOR-SC0344 | ITS135/81 Front Connector |
| PIN-SP0243 | ITS135/81 Pressure Pin |
| PLATE-SP0244 | ITS135/81 Plate - 3 year examination |
| SCREW-SS0450 (OFF THE SHELF) | Pan Head Screw - M4 x 8 A2/A4 SS |
| CAP-ASC0009 ITS135/81 | Front Protective Cap - Assembled |
| CAP-SC0341 | ITS135/81 Front Protective Cap |
| CHAIN-SC0343 (OFF THE SHELF) | ITS 135/81 Welded chain 165mm long 2 x 12 mm Internal (Welded) SS - 13 Links |
| SEAL-SS0452 (OFF THE SHELF) | ITS 135/81 Front Protective Cap Rubber O-ring (Ø2,5 x 15mm) |
| SCREW-SS0450 (OFF THE SHELF) | Pan Head Screw - M4 x 8 A2/A4 SS |
| WASHER-SW0049 (OFF THE SHELF) | M4 Flat Washer - A2/A4 SS |
| SHELL-ASS0010 ITS135/81 | Rear Handle Shell - Assembled |
| LEVER-ASL0010 | ITS135/81 Release Lever - Assembled |
| PLATE-ASP0010 | ITS135/81 Rear Handle Shell Window - Assembled |
| SHELL-SH0465 | ITS135/81 Rear Handle Shell |
| BUSH-SB0457 | ITS135/81 Release Lever Flange Bush |
| Various Components required for Final Assembly | |
| Tube-ST0103 | ITS135/81 Radiation Protection Tube |
| RING-SR0109 | ITS135/81 Radiation Protection Tube Threaded Ring |
| DISC-SD0018 | ITS135/81 Radiation Protection Tube Disc |
| TUBE-ST0104 | ITS135/81 Radiation Protection Spiral Tube |
| PLATE-SP0247 | ITS135 Nameplate |
| PLATE-SP0248 | ITS81 Nameplate |
| SLEEVE-SS0467 | ITS135/81 Shielding Unit Sleeve |
| SCREW-SS0454 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M8 x 20 A2/A4 DIN 912 |
| SCREW-SS0455 (OFF THE SHELF) | Hex Soc. HD Cap Screw - M8 x 25 A2/A4 DIN 912 |
| SCREW-SS0458 (OFF THE SHELF) | Pan HD Screw - M3 x 8 A2/A4 DIN 7985 |
| SCREW-SS0459 (OFF THE SHELF) | Pan HD Screw - M3 x 6 A2/A4 DIN 7985 |
| SCREW-SS0460 (OFF THE SHELF) | Pan HD Screw - M4 x 20 A2/A4 DIN 7985 |
| SHELL-SS0466 | ITS135/81 Front Handle Shell |
| SCREW-SS0456 (OFF THE SHELF) | Set Screw - M2 x 6 A2/A4 DIN 913 |
| PIGTAIL-NCP0458 ITS135/81 | Link Type Pigtail |
| LINK-SL0036 | ITS Series Pigtail Link Tungsten 9mm long |
| LINK-SL0039 | TSI Series Pigtail Link S/Steel 16mm |
| LINK-SL0037 | TSI Series Pigtail Link Tungsten 22.95mm long |
| LINK-SL0040 | TSI Series Pigtail Slider Link |

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| CAPSULE-SC0108 | TSI Series Pigtail Source Capsule - Engraved |
| PIN-SP0037 (OFF THE SHELF) | Coil Spring Pin S/S(CLDP 2.5 X 6.4 HDK-203471) Dual/TSI/Ti Pigtail |
| RECEPTOR-SR0027 | TSI Series Pigtail B/point Receptor - Engraved & Welded |
| Projector ITS 135/81 | |
| PROJ-CP0025 | Exertus ITS 135 Isotope Projector |
| PROJ-CP0030 | Exertus ITS 81 Isotope Projector |

5. Package Identification

The package is identified by the model number:
ZA/SAHPRA 0003/B(U)-96

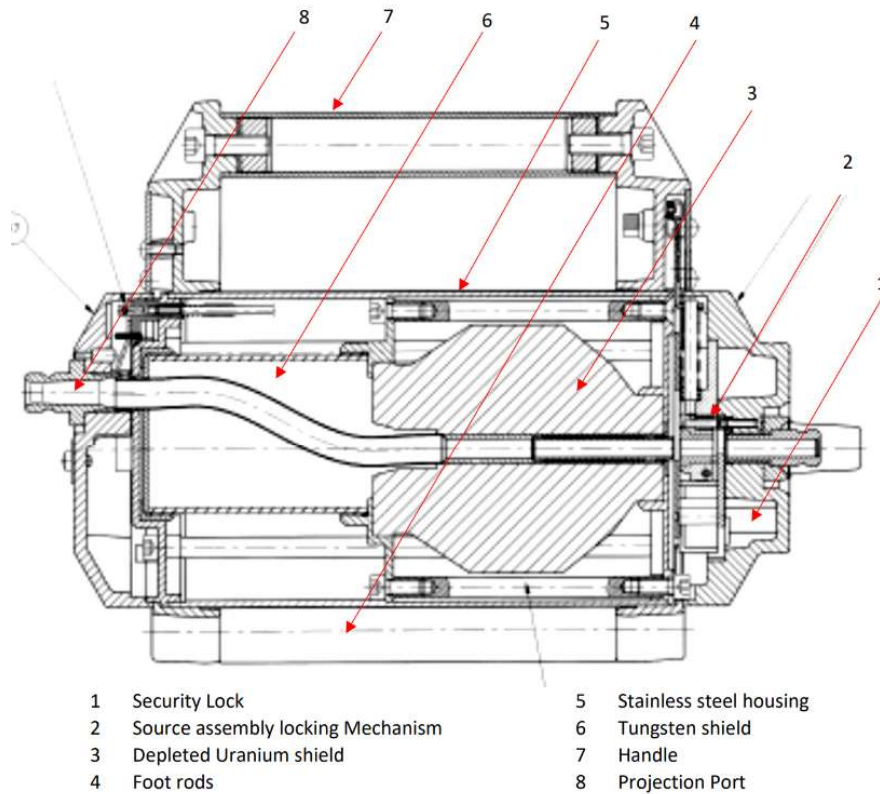
6. Package Description

The Exertus ITS 135 Packages will be used as Exposure Containers for Industrial Radiography and as Transport Packages for Special Form sealed sources used in Industrial Radiography.

The Exertus ITS 135 exposure containers enable an operator to remotely expose radiographic film. The exposure containers are operated via a remote control and a projection sheath to guide the source to a desired radiography position. The Exertus ITS 135 exposure containers are of stainless steel structure that provides radiation shielding for the sealed source with depleted uranium and tungsten components. The sealed source is contained within a replaceable source holder capsule on a link-type source assembly, which travels from its safe position inside the exposure container to its radiography position and back and is secured by an Automatic Securing Mechanism. The Exertus ITS 135 exposure containers include a keyed security lock and interlocks on the remote control coupling and projection ports to prevent the accidental and/or unauthorised exposure of the radiation source.

The basic design is reflected in Figure 1.

Figure 1.



| Table 2 Dimensions and mass of the ITS 81 and ITS 135 | | |
|--|--------|---------|
| Feature | ITS 81 | ITS 135 |
| Height (mm) | 222 | 222 |
| Width (mm) | 130 | 130 |
| Length (mm) | 350 | 350 |
| Total weight (kg) | 21.5 | 23 |
| DU weight (kg) | 11.0 | 13 |
| DU diam. (mm) | 98 | 105 |
| DU length (mm) | 114.5 | 114.5 |
| DU thickness (mm) | 43 | 46.5 |
| W-front shielding diam. (mm) | 62 | 62 |
| W-front shielding length (mm) | 86.5 | 86.5 |

7. Authorised Contents

The package contents will not exceed either:

ITS 135

| Radionuclide | Activity TBq | Physical State | Chemical Form | Use |
|--------------|--------------|----------------|----------------|-------------|
| Ir-192 | 5 | Solid | Iridium metal | Radiography |
| Se-75 | 7.4 | Solid | Selenium alloy | Radiography |
| | | | | |

8. Conditions for the use of the packaging

- 8.1 The maintenance required on this package is described in the document WI/GSA/LOG-7.1.23.0 Exertus ITS 135 Maintenance Manual or any future revisions thereof, as accepted by the competent authority.

9. Notification

- 9.1 The owner of a package, manufactured in accordance to the design covered by this certificate, shall forward the package serial number to the competent authority.
- 9.2 Should the package be disposed of or change ownership, then this change must be notified to the competent authority.
- 9.3 Accordingly, the party relinquishing ownership of a package shall forward the name of the new owner to the competent authority.
- 9.4 The consignor of a package compliant with the design covered by this certificate shall check that the package bears a Model Number as identified in "5" above, as well as a serial number.

10.Mode(s)

- 10.1 The package described by this certificate may be transported by air, land, sea or inland waterways.

11.Specifications of quality assurance programme.

- 11.1 Quality assurance programmes as described in the Gammatec Quality Manual, PO/GSA/CORP-010.00.000.000 and its supporting documentation must be applied to the fabrication, testing and usage of the package.
- 11.2 All packages must be periodically inspected and as necessary, repaired and maintained in good condition so that they continue to comply with the relevant requirements and specifications, even after repeated use.

12.General Conditions

- 12.1 Each user of the transport package must have in their possession a copy of this certificate and all documents necessary to properly prepare the package for transportation.
- 12.2 This certificate does not relieve the consignor or carrier from the compliance with any requirements of the government of any country through or into which the package will be transported.

13.Marking and Labels

The packing must bear the marking ZA/SAHPRA 0003/B(U)-96 in addition to any other required markings and labelling.

14.Relevant Regulations

IAEA Safety Standards Series No. SSR-6, Regulations for the Safe Transport of Radioactive Material, 1018 Edition, Vienna 2018.

15.Expiry Date

This certificate expires at midnight on 31 Dec 2029



Dr. Boitumelo Semete
Chef Executive Officer
SAHPRA

29 January 2025

Date