ACCESSORIES FOR NUCLEAR MEDICINE & RADIOPHARMA

OPERATOR SHIELDINGS
SHIELDED CONTAINERS FOR VIALS & SYRINGES
SHIELDED SAFE
SHIELDED WASTE CONTAINERS

RADIOPHARMA | COMECER an ATS company

ACCESSORIES FOR NUCLEAR MEDICINE & RADIOPHARMA

*Whether you work in a Nuclear Medicine Hospital Department or in a Pet Cyclotron Laboratory our range of containment accessories adhere to the same **"Safety First"** standards and quality of all our products.*

OPERATOR SHIELDINGS RADIOPHARMA

OLK-101
LEAD BRICK ENCLOSURE

This enclosure wall is made of interlocking euro norm lead bricks, which eliminated radiation leakage. The bricks are all coated with epoxy paint. The structure has two stainless steel trays: an external one for the containment of bricks and an internal one for a simple decontamination. An upper casing, always in stainless steel, makes the structure extremely stable.

Frame material	INOX AISI 316L Scotch-Brite™
Shielding (Pb)	50 mm
Weight	~260 kg
External dimensions	518 x 458 x 346 mm (w x d x h)

VLS SERIES
MOBILE BED SHIELD

These bed shields are used to protect personnel from radiation during the visit of a patient. The lead shielding has a variable thickness depending on the model. The shields are mounted inside a stainless steel frame on 4 swivel wheels. The window is made of acrylic lead glass and provides a shielding equivalent to a lead thickness of 0.8 mm (for 110 KeV)

Window material	Acrylic lead glass
Structure material	INOX AISI 304 Scotch-Brite™
Shielding (Pb)	2 ÷ 3 mm
Weight	50 ÷ 100 kg
External dimensions	660 ÷ 1260 x 1130 ÷ 2000 mm (w x h)

VLS-PET
MOBILE PET LEAD SHIELD

This movable bed shield is used to protect personnel from radiation during injection of PET radiopharmaceuticals and examination of the patient. Due to the small size of this shield, contact with the patients is not inhibited. The shield can be used in the application and gamma camera room as well. Two handles are integrated on the sides for easy manipulation of the shield. The angled lead glass window is mounted on top of the shield. At the patient side a small height adjustable shelf is mounted which can carry a weight of approx. 10 kg.

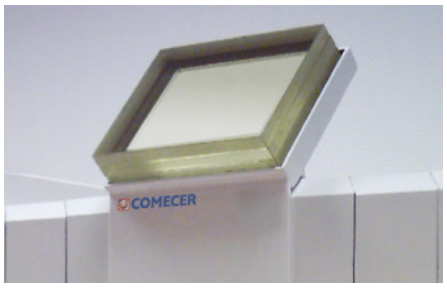
Shielding window (eq. Pb)	10 mm
Weight	approx. 120 kg
Dimensions lead glass window	400 x 280 mm (w x h)
External dimensions	400 x 1500 mm (w x h)

LKV SERIES
LEAD GLASS BARRIER

Protective lead glass shield, ideal to go with the bench brick protection.

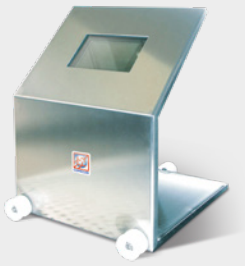
Material	Lead glass
Coating	INOX AISI 304 Scotch-Brite™

Shielding (Pb)	***LKV-10*** 10 mm ***LKV-30*** 30 mm ***LKV-50*** 50 mm
Shielded glass window dimension	250 x 200 (d x h)
External dimensions	500 x 500 x 340 mm (w x d x h)



BMI
SLIDING PROTECTION FOR BENCHES

Stainless steel sliding protection with lead shielding and shielded glass window.



OPERATOR SHIELDINGS NUCLEAR MEDICINE

SDB-101
SHIELDED DISPENSING BOX

The SDB-101 is an airtight and shielded box with ventilation. SDB-101 can be used for either manual syringe dispensing of radiopharmaceuticals or for use in combination with (semi)automatic dispensing systems of various brands.

The box with an integrated lead glass viewing window comes with two arm openings (shielded in closed position) and one large shielded door on the side for bringing items in or out. The internal workspace is provided with an opening on the lower floor to the right, under which, in a particular shielding 50 mm lead, can accommodate an ionization chamber. There is also a second opening on the left to access the Waste group, shielded in lead.

External casing material	AISI 304 - Powder coated
Working chamber material	AISI 316L - Glass pearling (sand blasting)
Working chamber internal dimensions	639 x 624 x 674 mm (w x d x h)
Shieldings (Pb)	30 - 50 mm
Weight	1250 kg
External dimensions	751 x 801 x 2004 mm (w x d x h)

CONTAINER FOR TRANSPORT AND STORAGE

PST SERIES
TUNGSTEN SYRINGE SHIELD

Tungsten shield for syringes, equipped with an ergonomic notch in the central part to make the syringe handling easier. Suitable for 5 ml and 10 ml syringes.

Construction material	Tungsten
Shielding (W)	4 ÷ 7

Suitable for Comecer dispensing systems

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BHT SERIES
TUNGSTEN SYRINGE SHIELD

This is a compact syringe shield with a lead glass window and clamp lock. The lead glass is completely encapsulated in tungsten material. For this reason radiation leakage is not possible. The interior of the shield is colored white for clear visibility. The shields offer a shielding of 2 mm tungsten. Suitable for 1 ml, 2 ml, 3 ml, 5 ml and 10 ml syringes.

Construction material	Tungsten
Shielding (W)	2 mm

BHP SERIES
UNI-LOCK TUNGSTEN PET SYRINGE SHIELD

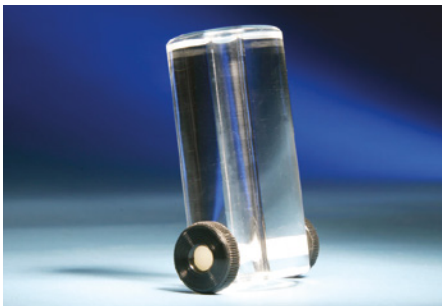
New 511 keV tungsten syringe shield for use with PET radiopharmaceuticals with ABS cover. The shield is fitted with screw locking mechanism and with lead glass window. The lead glass window is 11-13 mm thick offering 3-4 mm Pb equivalent shielding. The new hexagon body shape helps to prevent the syringe shield from rolling when left on a table. Suitable for 1 ml, 2 ml, 3 ml, 5 ml and 10 ml syringes.

Construction material	Tungsten
Shielding (W)	7.5 mm

PH SERIES
PERSPEX SYRINGE SHIELD

Perspex syringe shields for the shielding of beta radiation. The shield is polished on the inside to guarantee a clear view on the syringe. The syringe is fixed with 2 Teflon screws. The syringe shields will be made to fit the syringe models. Suitable for 1 ml, 2 ml, 5 ml and 10 ml syringes.

Construction material	Perspex
Thickness	PH-1: ~8 mm PH-2: ~12 mm PH-5: ~10 mm PH-10: ~11 mm



PSN
SHIELDED CONTAINER FOR SYRINGE TRANSPORT

Shielded container for safe transport of syringes already equipped with their own shield

Structure material	INOX AISI 304 Scotch-Brite™
Shielding	5 ÷ 6 mm
Weight	5 kg
Internal dimensions	200 x 50 x 40 mm (w x d x h)
External dimensions	288 x 108 x 133 mm (w x d x h)

SXC SERIES

LEAD SHIELDED CONTAINER FOR SYRINGE TRANSPORT

Containers to transport Comecer 10 ml and 5 ml BD type syringes with pierceable cap (equipped with PST or "nude" shielding). Series SXC containers are made of lead and covered in fibre-reinforced plastic composite materials. The total equivalent shielding (including the PST, if applicable) is 15 mm of lead. The containers are closed by a threaded device and are equipped with a stainless steel built-in handle for transport. The type is distinguished by colour coding:

- S5C container for a 5 ml syringe with Comecer pierceable cap or needle* - blue
- S5CP container for a 5 ml syringe with Comecer pierceable cap and PST shielding - light blue
- S10C container for a 10 ml syringe with Comecer pierceable cap - dark green
- S10CP container for a 10 ml syringe with Comecer pierceable cap and PST shielding - light green.

	S5C	S5C P
Shielding (Pb)	15 mm	15 mm(with PST)
Weight	5.2 kg	5.2 kg (with PST)
Color code	Blue	Light blue
External dimensions	65 x 250 mm (Ø x h)	55 x 250 mm (Ø x h)

	S10C	S10CP
Shielding (Pb)	15 mm	15 mm (with PST)
Weight	5.4 kg	5.4 kg (with PST)
Color code	Green	Light green
External dimensions	65 x 250 mm (Ø x h)	55 x 250 mm (Ø x h)

** The S5C container can contain 5 ml syringes with maximum total needle length of 45 mm (including the Luer Lock fitting)*

CP SERIES

CONTAINER FOR TRANSPORT AND STORAGE

Container for safe transport and storage inside the laboratory of sources and bottles /vials containing radioactive substances. Cylindrical body treated with epoxy decontaminable paints.

Shielding (Pb)	30 ÷ 50 mm
Weight	15 ÷ 70 kg
Pit dimensions	40 ÷ 80 x 80 ÷ 140 mm (Ø x h)
External dimensions	110 ÷ 180 x 320 ÷ 430 mm (w x h)

PF SERIES

TRANSPORT AND COLLECTION CONTAINER

Suitable for transport and drawing of radioactive substances contained in glass vials. Cylindrical body with screw-on plug for vial placement and pierced plug for drawing the radioactive liquid. Surface treated with epoxy paints.

Shielding (Pb)	20 mm
Weight	4.5 ÷ 5.5 kg
Pit dimensions	27 ÷ 38 x 79 ÷ 98 mm (Ø x h)
External dimensions	69 ÷ 79 x 123 ÷ 155 mm (d x h)

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CP-CTC
TROLLEY FOR TRANSPORT OF SHIELDED CONTAINERS

Made of steel with rubber wheels, equipped with refolding pole for pulling and screwing device for locking in the container. Epoxy decontaminable painting. Suitable for transporting all containers.

Frame material	INOX AISI 304 Scotch-Brite™
Maximum load	150 kg
Weight	15 kg
External dimensions	420 x 370 mm (w x h)

VC SERIES
STAINLESS STEEL VIAL CONTAINER

Vial container for personal protection. The vial containers are made of stainless steel with 4 mm lead shielding. The VC comes standard with one adapter for your vial. The shielded plug is optional

Construction material	INOX AISI 304 Scotch-Brite™
Lead shielding	4 mm
Height	59 mm
Inside diameter	34 mm
Lead glass windows	**VC-0** None **VC-1** 1 **VC-2** 2

CF18-T
TUNGSTEN SHIELDED CONTAINER FOR VIAL TRANSPORT

The CF18-T shielded container is in tungsten and is used to transport radioisotope vials. The top is locked by means of a fixed joint (Bayonet catch). The lock is equipped with an O-ring seal that ensures a perfect tightness. The CF18-T shielded container is also equipped with a built-in handle to enable easy transport.

Shielding (W)	29.5 mm
Weight	14 kg
Pit dimensions	33 x 57 mm (Ø x h)
External dimensions	93 x 130 mm (Ø x h)

CF18-PB
LEAD SHIELDED CONTAINER FOR VIAL TRANSPORT

The CF18-PB shielded container is made of 40 mm lead and fully coated with AISI 304 stainless steel. It is used for the transportation of radioisotope vials. The perfect cover latch is obtained by a locking ring, also in stainless steel, and air sealing is guaranteed by a silicon gasket on the upper part of the container itself. The CF18-PB cover is equipped with a stainless steel retractable handle, for easy transport. The design of the CF18-PB allows many containers to be easily stacked, optimising your storage operations.

Shielding (W)	40 mm
Weight	18 kg
Pit dimensions	33 x 58 mm (Ø x h)
External dimensions	134 x 167 mm (Ø x h)

PVC-O
PERSPEX VIAL CONTAINER

Perspex vial container for the shielding of beta radiation. The vial shield is polished on the inside to guarantee a clear view.

Construction material	Perspex
Thickness	10 mm minimum
Vial shield	Standard for 5 mm vials

CF18-TA

"TYPE A" EXTERNAL CASE FOR FDG TRANSPORT CONTAINERS

For the transport of radioactive material we provide a special case where materials are placed inside the shielded containers. The case is made of polyethylene (plastic material ensuring resistance and lightness at the same time). It is equipped with an airtight closure with perimeter gaskets, reinforced corners, safety lockups, handle for an easy transporting and an internal pressure compensation valve for airfreight. The interior of the case is coated with a shock-absorbing material.

Brand	PELI
External material	Polyethylene

Case weight	3.9 kg
Total Weight (Case + CF18-T)	17.9 kg
Max. activity which can be transported	3500 mCi
Dose ratio on the "Type-A" case surface	<2 mSv/h
Total Weight (Case + CF18-PB)	21.9 kg
Max. activity which can be transported	3500 mCi
Dose ratio on the "Type-A" case surface	<2 mSv/h
Total weight (Case + SSC (3 units))	17.4 kg

Max. activity which can be transported	25 mCi
Dose ratio on the "Type-A" case surface	<2 mSv/h
External dimensions	300 x 300 400 mm (w x d x h)

CTF-50

SHIELDED SAFE FOR ACTIVATED FOILS AND TARGETS

Shielded safe suitable for the storage of activated foils and targets under complete safety conditions. Continuous lead shielding and hinged front door with key lock.

Frame material	INOX AISI 304 Scotch-Brite™
Shielding (Pb)	50 mm
Weight	213 kg
Internal dimensions	211 x 158 x 237 mm (w x d x h)
External dimensions	315 x 306 x 366 mm (w x d x h)

CCR SERIES

SHIELDED SAFE FOR RADIOISOTOPES

Shielded safe suitable for the storage of radioisotope vials under complete safety conditions. Continuous lead shielding with changeable thickness. Hinged front door with key lock

Frame material	INOX AISI 304 - Scotch-Brite™
Number of internal compartment	1 ÷ 6
Shielding (Pb)	25 ÷ 50 mm
Weight	120 ÷ 280 kg
External dimensions	315 x 306 x 366 mm (w x d x h)

CR SERIES

CANISTER FOR RADIOACTIVE WASTE

Container suitable to collect, in conditions of absolute safety, radioactive solid waste.

Equipped with a special opening that enables the lid to be lifted and translated. The system operates via an helical screw controlled by a foot pedal.

Structure material	INOX AISI 304 - Scotch-Brite™
Shielding (Pb)	3 ÷ 5 mm
Weight	25 ÷ 30 kg
Capacity	20 ÷ 40 l
External dimensions	280 ÷ 380 x 500 ÷ 515 mm (Ø x h)

WC-101
WASTE CONTAINER

This is a single cylindrical waste container with lid.

Shielding (Pb)	10 mm
Weight	20 kg
Internal Ø	150 mm
Internal height	230 mm

SNC-103
SHARP NEEDLE CONTAINER

This shielded container is used for storage of contaminated needles. The exterior of the container is finished with an impact proof powder coating. The container is covered with a stainless steel top lid. The lid, which covers the hole, is made of aluminium.

Shielding (Pb)	3 mm
Internal dimensions	290 x 177 x 250 mm (w x d x h)

WC-300/WC-303
WASTE CONTAINER

These movable containers are used for radioactive waste. They have been designed specifically to fit the standard blue plastic hospital containers. The containers are made of stainless steel. The plastic hospital container is placed inside the waste container underneath the opening. A shielded lid covers the opening. The door is lockable. The WC-303 waste container has a foot-pedal operated lid.

Shielding (Pb)	3 mm
Weight	100 kg
Internal dimensions	340 x 420 x 650 mm (w x d x h)
External dimensions	410 x 450 x 810 mm (w x d x h)

COMECER
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