

Radiation Protection



deutsch medical

Protecting healthcare professionals & their patients

Your Protection. Our Mission.



deutsch medical

Protecting healthcare professionals & their patients

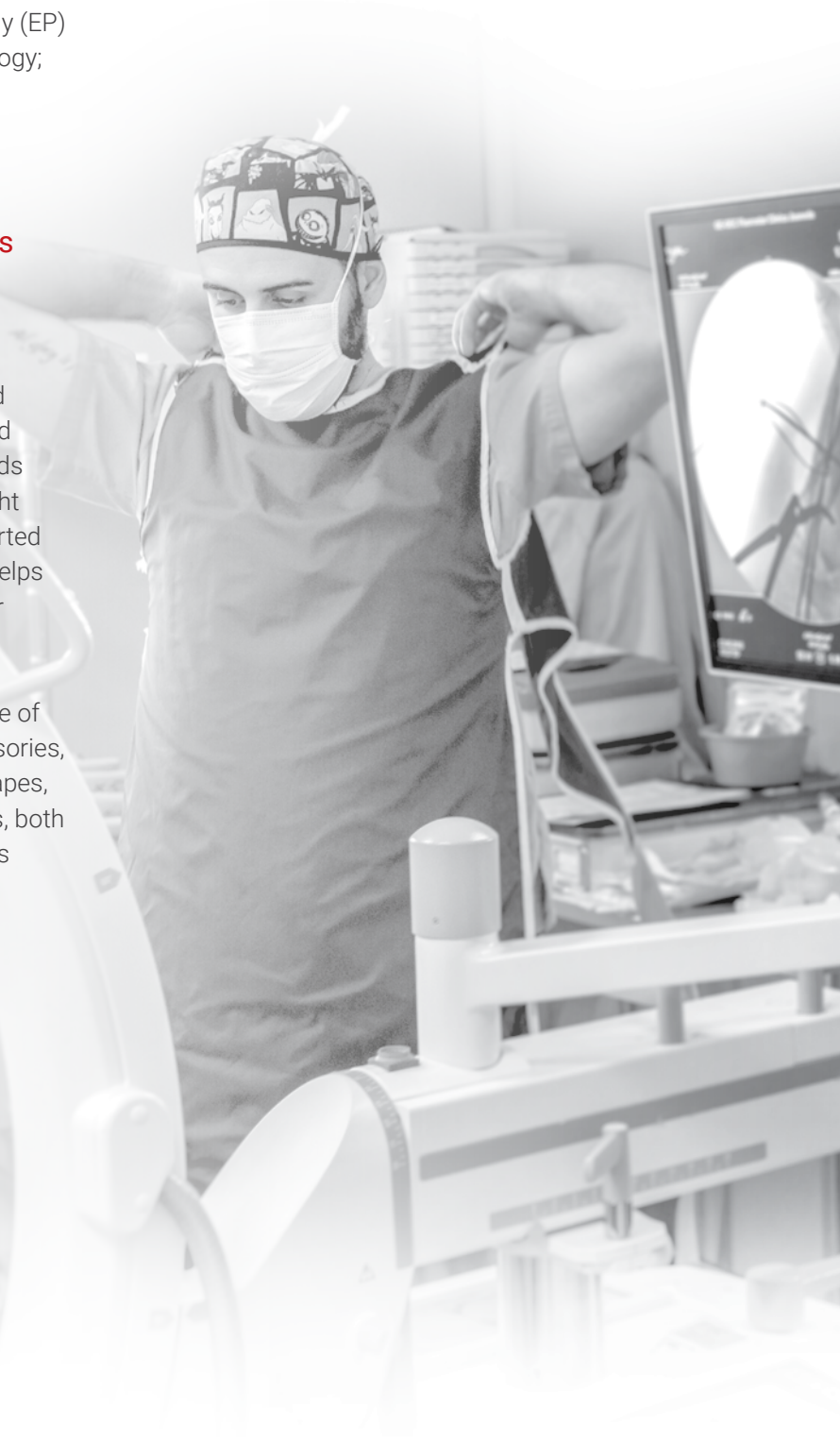
Deutsch Medical's mission is to protect healthcare professionals and patients during diagnostic imaging procedures from harmful effects of primary (x-ray) and secondary (scatter/ fluorescence) radiation in areas such as Cardiac Catheter Labs, Cardiac Electrophysiology (EP) Labs; Interventional Radiology, Urology and Cardiology; Orthopaedics, Anaesthesiology, Gastroenterology, Endoscopy and Pain Management.

We strive to raise the bar in protecting healthcare professionals and their patients from harmful effects of primary and secondary radiation.

We achieve this by providing more comfortable and durable personal radiation protection, manufactured in line with the highest radiation protection standards and exceeding quality specifications at lighter weight – independently audited and verified. This is supported by free personalised and educational service that helps customers to make an informed decision about our radiation protection products.

Deutsch Medical represents a comprehensive range of must-have Radiation Protection Aprons and Accessories, Radiation Protective Eyewear, Scatter Reducing Drapes, Lead Apron Racks and Radiation Protection Shields, both manufactured in Australia and sourced from world's leading manufacturers.

Anja Mueller
Managing Director



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Protecting healthcare professionals & their patients

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Protecting healthcare professionals & their patients

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About Us

Our founders were not convinced that radiation protection companies represented in Australia offered the highest radiation protection for healthcare professionals and patients. In 2016 we established Deutsch Medical. At that time, all lead aprons and glasses put healthcare professionals at continued risk as the equipment has only been tested at one x-ray tube voltage (e.g. 90kVp) not taking scatter radiation or fluorescence into consideration. What's more, we came across a lot of confusing messages, didn't like the one-size-fits-all approach and knew that healthcare professionals in hospitals and clinics were not being fully protected.

Deutsch Medical has been established to address all the challenges facing hospital staff and their protection. We are led by one single mission: striving to raise the bar in protecting healthcare professionals and their patients from harmful effects of primary and secondary radiation.

This is done through:

- Carefully selecting and working with manufacturers that share our value system and produce best-in-class radiation protection products in accordance to the highest radiation protection and quality standards.
- Developing an individual, user-friendly approach to radiation protection that optimally fits and protects you, based on your individual needs. You get the opportunity to experience the fit, weight and quality before you make your decision.
- Backing up claims and providing you with the information you need to make an informed purchasing decision about your radiation protection products.

Along the way, Deutsch Medical ...

- were the first in the market to offer radiation protection aprons and eyewear that conform with the new international radiation safety standard (IEC61331.1-2014 & IEC61331.3-2014) that takes both primary x-ray and scatter radiation into account and therefore, increases the radiation safety of healthcare professionals and patients significantly.
- offered a free trial before you buy radiation protection eyewear ensuring a correct individual fit.

Deutsch Medical wants to be recognised as the trusted medical supplier:

- Offering full radiation protection and wearer comfort to medical imaging healthcare professionals and patients.
- Providing honest, reliable and educational service to all healthcare professionals, with a focus on the individual.
- Collaborating with medical imaging personnel to constantly improve our products and services.



Our Values



Protecting Healthcare Professionals and their Patients

We constantly ask ourselves whether any new product will make life better or safer for the wearer. We carefully select and work with manufacturers that share our value system and produce best-in-class radiation protection products in accordance to the highest radiation protection and quality standards.



More Comfort; The Wearer Comes First

Deutsch Medical listens to customers and procures radiation protection products that are designed with their needs in mind. We believe that medical professionals and their patients deserve a higher level of protection and comfort without the "one-size-fits-all" approach of many suppliers. It is paramount that your radiation protective equipment fits properly to provide you with the highest level of radiation protection and comfort.



Setting the Standard for Transparency and Clarity

Deutsch Medical verify claims by independent, third-party bodies from the most trusted names in the certification sector. We willingly share details of our certifications and insist on absolute clarity in terms of the level of protection that our products offer.



Facts and Education is Everything

We teach you to make smart radiation protection choices, ensuring you select radiation protection equipment to best suit you and your specific needs. We help you gain clarity and understanding of standards, test reports, radiation protection materials and products, supported by clinical evidence and references.



A Truly Individual Approach

Deutsch Medical customises the offering to provide radiation protection equipment that optimally fits and protects you, based on your individual needs - experience the fit, weight and quality before you make your decisions.



Delivering Value to the Customer

To save you time, an inventory management is included with your purchase, enabling you to transparently track and document the inspection of radiation protection aprons and accessories. We keep you compliant and ensure safety regulations are met.

Radiation Protection Standards and Quality Assurance

Deutsch Medical's Radiation Protection Products assure maximum protection against harmful radiation in hazardous work environments and conform with AS/ NZS 4543.3:2000 (Australia/ NZ), IEC 61331-1:2014 & IEC 61331-3:2014 (International), independently tested and certified against a full range of x-ray tube voltages levels; 60 to 150 kVp. By adhering to the highest industry standards, including ISO and CE Certification, we maintain a high level of quality for our radiation protection products.



Deutsch Medical's Warranty

Deutsch Medical takes pride in offering premium quality, comfortable and durable radiation protection equipment that fully protects healthcare professionals and their patients from primary and secondary radiation for a long time.

With an unsurpassed Three-Year-Warranty against workmanship and materials for Deutsch Medical's radiation protection aprons and accessories, we stand by our product range better than any other company in the radiation protection industry. Our Three-Year-Guarantee is proof positive of the quality we provide for our radiation protection aprons and accessories providing you with comfortable protection that will continue to last for years.

Radiation Protection Aprons



3 YEARS

Radiation Protection Eyewear



2 YEARS

Radiation Protection Accessories



3 YEARS

Scatter Reducing Drapes



2 YEARS

Radiation Protection Storage



2 YEARS

Radiation Protection Shields



2 YEARS

Radiation Protection Aprons

Lightweight radiation protection and comfort for your body



Radiation Protection Eyewear

Radiation protection and comfort for your eyes



Radiation Protection Accessories

Extra radiation protection for your thyroid, neck, head, hands, arms, legs and feet



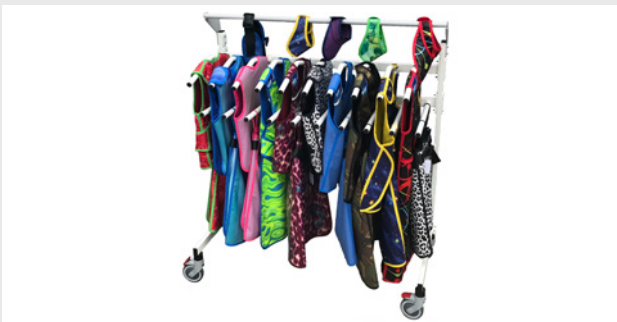
Scatter Reducing Drapes

Protection against radiation emitting from patient's bodies during interventional procedures



Radiation Protection Storage

Protect and efficiently store your radiation protection aprons



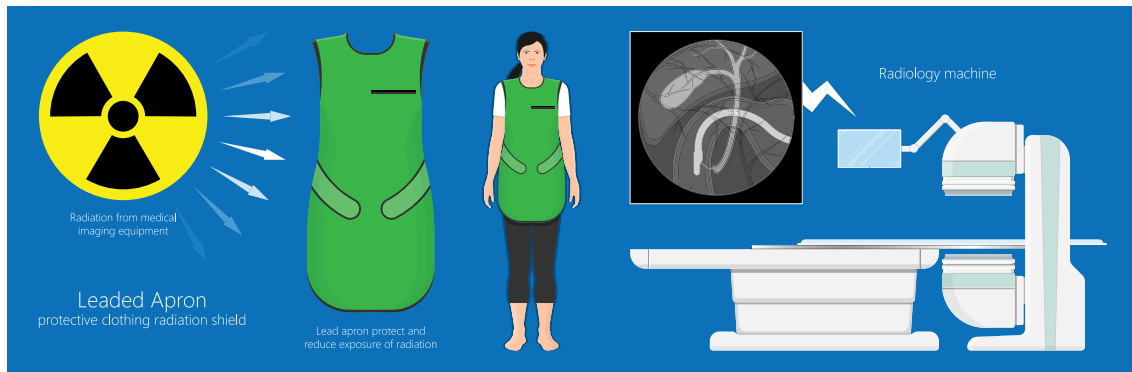
Radiation Protection Shields

Reducing operator exposure to radiation emissions during diagnostic imaging procedures



New International Standard to Improve Radiation Protection

The new international IEC 61331.1-2014 & IEC 61331.3-2014 specifies testing of lead aprons at minimum four x-ray energy tube voltages taking scatter radiation and fluorescence into account unlike the outdated AU/NZS 4543.3-2000.



According to ARPANSA (Australian Radiation Protection and Nuclear Safety Agency)¹, every x-ray apron in Australia has to comply with outdated AU/NZS 4543.3-2000. The Australian and New Zealand standard is based on the outdated international standard IEC 61331-3:1998 which has significantly been updated in 2014 (to IEC 61331-1.2014 & IEC 61331-3.2014). Although Europe has changed to a wider radiation protection spectrum to increase radiation safety for medical staff and patients, the AU/NZS 4543.3-2000 standard remains valid.

The challenge with the AU/NZS 4543.3-2000 standard is that it only specifies testing of radiation protection clothing at one x-ray tube voltage, e.g. 90 or 100 kVp, using a testing method (narrow beam) that does not take into account the fluorescence and secondary scatter radiation that occurs when working in x-ray operating rooms. The result can be increased levels of absorbed doses received by skin and organs that can deliver a real, lasting and career-limited impact on medical professionals.

Attenuating materials, particularly lead-free with a lower atomic number, actually emit secondary radiation (or fluorescence) when exposed to radiation. In reality, this fluorescence and scatter radiation reaches the operator and is of biologically damaging energies.² However, this is not well detected with the most commonly used narrow beam testing method.

On the contrary, the new international standard IEC 61331.1-2014 & IEC 61331.3-2014 specifies testing of lead aprons at a number of x-ray tube voltages, such as 60, 70, 90 and 110 kVp and optional 150 kVp. Due to a different testing procedure (modified broad beam method) the fluorescence and secondary scatter radiation is detected. The use of this testing method not yet required in Australia and New Zealand would expose the poor protection of most lead-free/ lead-reduced aprons, despite their labels.^{3,4}

Therefore, most of the lead-free aprons that only comply with the current AU/NZ should be used with care, particularly for examinations with high dose, e.g. in Catheter Labs and CT rooms.

REFERENCES:

- 1 ARPANSA. Aprons for protection against X-rays. Available online, <https://www.arpansa.gov.au/understanding-radiation/radiation-sources/more-radiation-sources/aprons-protection-against-x-rays>, 20/10/2020.
- 2 Schmid E, Panzer W, Schlattl H, Eder H. Emission of fluorescent x-radiation from non-lead based shielding materials of protective clothing: a radiobiological problem? *J Radiol Prot* 2012 Sept;32(3):129-139. doi: 10.1088/0952-4746/32/3/N129.
- 3 Eder H, Panzer W, Schofer H. Is the lead-equivalent suited for rating protection properties of lead-free radiation protective clothing? *Rofo* 2005 Mar;177(3):399-404.
- 4 Christodoulou EG, Goodsitt MM, Larson SC, Darnier KL, Satti J, Chan HP. Evaluation of the transmitted exposure through lead equivalent aprons used in a radiology department, including the contribution from backscatter. *Med Phys* 2003 Jun;30(6):1033-8.

Radiation Protection Materials

Deutsch Medical offers three different radiation protection materials that assure maximum protection against harmful radiation exposure in hazardous work environments. Each protection material has its own particular benefits in terms of radiation protection, functionality, application and cost. All three materials conform with all major global standards AS/ NZS 4543-3:2000 (Australia/ NZ), IEC61331-1:2014 and IEC61331-3:2014 (International), independently tested and certified against a full range of energy levels; 60 to 150 kVp.

The area density (weight) of the radiation protection materials is measured in grams per square metre which is the most accurate way of defining weight and comparing it to other brands. We believe that the weight of the radiation protection material is just as important as the protection level when choosing the right lead apron, and that the weight should be verified by an independent body. For this reason, our manufacturer has requested that the independent test laboratory publishes the area density of their supplied sample on the test report provided. This is your guarantee that radiation protective products you buy from Deutsch Medical are as stated on the product label.

Lead	Light Lead Plus	Supreme Lead Free
Lead Material	Light Weight Lead and Lead Composite Material	Light Weight Lead Free Material
RECOMMENDED FOR <ul style="list-style-type: none"> • Short procedures • Medical professionals within radiology, dental, veterinary and nuclear medicine 	RECOMMENDED FOR <ul style="list-style-type: none"> • Short to medium procedures • Medical personnel within radiology and surgical procedures 	RECOMMENDED FOR <ul style="list-style-type: none"> • Long procedures • Medical personnel within cardiac catheter labs, cardiac electrophysiology (EP) labs; interventional radiology, urology and cardiology
Lead (L) is specifically suitable for radiation protection because of its high absorption and attenuation of x-ray photons. Lead is often considered the budget choice. However, lead is a heavy option and can cause occupational health issues ¹ when worn for a long time. Therefore, lead is only an ideal protection when in use for shorter periods of time.	Light Lead Plus (LLP) consists of lead combined with antimony. This material is lighter than "lead-only" apparel (up to 285 grams per square metre). Light Lead Plus is considered the economical choice for a garment which provides optimum protection and is comfortable to wear when in use for short and medium periods of time.	Supreme Lead Free (SLF) is a lightweight protective material which consists of two materials: Bismuth and Antimony, which protect throughout the full voltage spectrum required by the IEC standard. While antimony will shield the transmission of scatter radiation between 60-110 kVp, Bismuth will block the transmission of lower level scatter or fluorescent radiation between 50-90 kVp. Supreme Lead-Free is the lightest material on the market. when considering current IEC testing standards ² . Combined with the ergonomic design of our apparel, you will be wearing the most protective and comfortable apron.
Independently tested and certified against a full range of energy levels; 60 to 150 kVp by "Institut für Strahlenschutz und Dosimetrie" Austria. <ul style="list-style-type: none"> • IEC 61331.1-2014 compliant • IEC 61331.3-2014 compliant 	Independently tested and certified against a full range of energy levels; 60 to 110 kVp by "Institut für Strahlenschutz und Dosimetrie" Austria. <ul style="list-style-type: none"> • IEC 61331.1-2014 compliant • IEC 61331.3-2014 compliant 	Independently tested and certified against a full range of energy levels; 60 to 110 kVp by "Institut für Strahlenschutz und Dosimetrie" Austria. <ul style="list-style-type: none"> • IEC 61331.1-2014 compliant • IEC 61331.3-2014 compliant
Area Density in g/m² <ul style="list-style-type: none"> • 0.25mm Pb: 3359 • 0.35mm Pb: 4648 • 0.50mm Pb: 6747 	Area Density in g/m² <ul style="list-style-type: none"> • 0.25mm Pb: 3208 • 0.35mm Pb: 4508 • 0.50mm Pb: 6462 	Area Density in g/m² <ul style="list-style-type: none"> • 0.25mm Pb: 2762 • 0.35mm Pb: 3785 • 0.50mm Pb: 5267

REFERENCES:

- 1 Klein LW, Tra Y, Garratt KN, Powell W, Lopez Cruz G, Chambers C, et al. Occupational health hazards of interventional cardiologists in the current decade: results of the 2014 SCAI membership survey. *Catheter Cardiovasc Inter* 2015; 86: 913-24.
- 2 Heinrich Eder, Helmut Schlattl: IEC 61331-1: A new setup for testing lead free X-ray protective clothing, *Physica Medica* 45 (2018) 6–11.

Radiation Protection Aprons and Accessories

Deutsch Medical represents a comprehensive range of lightweight and comfortable radiation protection aprons that protect all healthcare professionals and their patients who work with and are exposed to x-ray and scatter radiation. Our lead aprons are especially suitable to wear during medium to long term interventional and surgical procedures because our styles are ergonomically designed to support your shoulders, back and hips whilst maintaining the highest radiation protection at less weight.



Vest and Skirt

Keeping you fully protected while providing most comfort during long procedures. Reducing stress on the upper and lower back by distributing weight between shoulders and hips (40:60 ratio).



Wraparound

Providing full protection while offering comfort during medium to long procedures. Saving you time with an easy-on and easy-off one-piece design.



Front Aprons

Optimal protection while providing comfort during short to medium surgical and diagnostic imaging procedures within dental, veterinary and radiology.



Patient Lead Aprons

Offering a comprehensive range to protect your patients from radiation during diagnostic imaging procedures.



Radiation Protection Accessories

Providing additional radiation protection for your thyroid, neck, head, hands, arms, legs and feet.



Radiation Protection Storage

Protect and efficiently store your radiation protection aprons using wall-mounted or mobile lead apron racks.

Create Your Perfect Lead Apron Combination

Deutsch Medical offer a wide range of lead garment combinations to ensure you can order the individual protective outfit you require. Choose between vest and skirt combinations, full wraparound, front protection as well as patient lead aprons. Base your selection on colour combinations, protection materials and thicknesses, fabric options, closure styles, various sizes as well as on the addition of monograms or logos. By using our quote feature tool on deutschmedical.com.au, you can submit your requirements to us and receive your individual quote.



Customised
Just For YOU

Select:

VEST Model, Colour, Closures				<p>Order Your Lead Apron</p>
SKIRT Model, Colour, Closures				
ACCESSORIES				
MATERIALS	Lead	Light Lead Plus	Supreme Lead Free	
LEAD EQUIVALENCE	0.25/0.25 0.50/0.35	0.35/0.25 0.70/0.25	0.35/0.35 0.70/0.35 0.50/0.25	
COLOUR/FABRIC				
SIZE	XS	S	M	
CUSTOM OPTION				

Tracking Your Personal Radiation Protection Equipment

Making it easier to manage your radiation protection equipment

We offer all customers free access to A-Track, a cloud-based software which allows users to easily manage, track and document the inspection of radiation protection garments.

Saving you time and effort

From the moment you log in to A-Track, you can clearly see what garments require inspection and when. Once a lead garment is added to the system, an intelligent tracking device will reduce the amount of information you are required to enter by prepopulating user input, saving you time and effort.

Keeping you compliant and ensuring safety regulations are met

With an integrated iOS and Android application, you can retrieve the full garment history by scanning the QR code on our A-Track label that is fitted to any of our lead aprons. After scanning you can easily see the lead garment's full details, including a full history of past, current and future inspections. If you are a smart phone user you can still input the unique code into any web browser and retrieve results via the cloud-based A-Track software.

Delivering value to you

This service is included with every lead apron purchase. No capital investment in hardware is required.



Fabric Materials and Colour Options

Choose from three different fabric materials: Flex-DC, Easy-Clean Spangly and Standard Nylon. All lead aprons feature a soft nylon lining for additional comfort.

Flex-DC: Keeping you comfortable and flexible in your movements.

The Flex-DC fabric is a specifically formulated material unique to our manufacturer AmRay, which gives the wearer a lightweight flexible fabric that is hard-wearing and durable. Its flexible properties afford the wearer complete comfort and ease of movement, avoiding unwelcome bulging from bending, sitting or leaning. A polyurethane coating provides an easy-clean surface to avoid staining and provides high standards of hygiene.



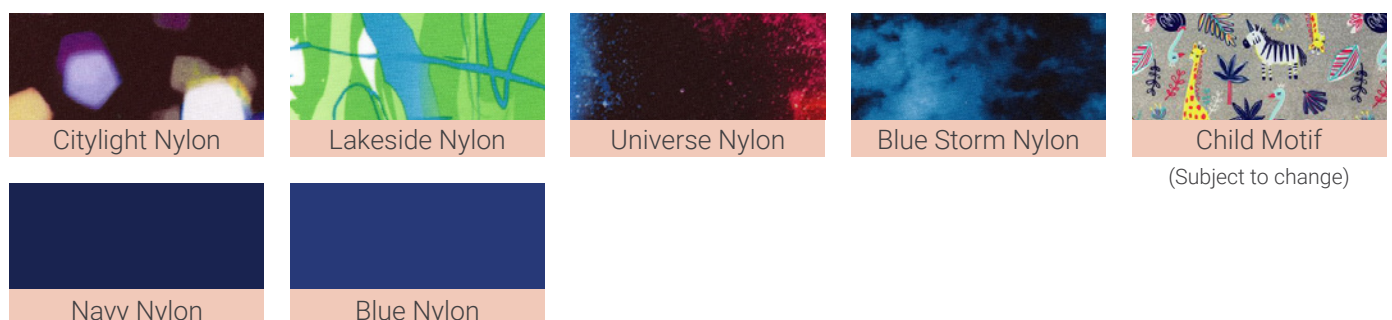
Easy-Clean 'Spangly': Making it easier to keep your apron clean.

In addition to the Flex-DC features, the Spangly fabric contains an additional coating to create an easy-clean surface resistant to staining.



Standard Nylon

Nylon is a strong and lightweight fabric of high resilience which is easy to keep clean.



Vest and Skirt Lead Aprons

Full-Wrap Lead Apron Vest

Comfortable protection during surgical procedures



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Even transfer of weight between shoulders and hips to reduce fatigue.
- With standard Velcro thyroid collar and pocket.
- Front protection: two fully overlapping panels. Double-layer for left shoulder.
- Back protection: one panel.
- Adjustable Velcro closure and padded shoulders for comfort.
- Soft fabric material to allow for full flexibility.

Custom Options

- Embroidery or Logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35/0.25 0.35/0.35	<p>Front, sides and back protection Full front overlapping</p>	XS S M L XL XXL
Light Lead Plus	0.50/0.25 0.50/0.35		Other sizes available on request.
Supreme Lead Free	0.70/0.25 0.70/0.35		

* Measurement in mm Pb.

Semi-Wrap Max Lead Apron Vest

Comfortable protection during surgical procedures



Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Even transfer of weight between shoulders and hips to reduce fatigue. • With standard Velcro thyroid collar and pocket. • Front protection: two fully overlapping panels, covering a circumference of 60% of the upper body. • Back protection: one panel. • Even transfer of weight between shoulders and hips to reduce fatigue. • Velcro closures at front and shoulder, padded shoulders for additional comfort. • Soft fabric material to allow for full flexibility. 	<ul style="list-style-type: none"> • Embroidery or logo on pocket • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35/0.25 0.35/0.35	<p>Front, back and sides protection</p>	XS S M L XL XXL
Light Lead Plus	0.50/0.25 0.50/0.35		Other sizes available on request.
Supreme Lead Free	0.70/0.25 0.70/0.35		

* Measurement in mm Pb.

Vest and Skirt Lead Aprons

Double-Sided Lead Apron Vest

Providing additional left side protection during cases with high and frequent left side exposure



Velcro closure – shoulder



Velcro closure – side



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Even transfer of weight between shoulders and hips to reduce fatigue.
- With standard Velcro thyroid collar and pocket.
- Front protection: one panel. With double-layer on left side.
- Back protection: one panel.
- Adjustable Velcro on right side and shoulder, padded shoulders for more comfort.
- Soft fabric material to allow for complete flexibility.

Custom Options

- Embroidery or logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25	<p>Front, sides and back protection Partial side overlapping</p>	XS S M L XL XXL
Light Lead Plus	0.35/0.25 0.35/0.35		Other sizes available on request.
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Tailor-Fit Lead Apron Vest with Velcro or Zipper

Keeping you fully protected and comfortable even during long procedures



Zipper closure

Velcro closure



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Even transfer of weight between shoulders and hips to reduce fatigue. • With standard Velcro thyroid collar and pocket. • Front protection: two panels with 15cm overlap. • Back protection: one panel. • Adjustable Velcro at front and padded shoulders for comfort or Zipper at front for snug fit, padded shoulders for comfort. • Soft fabric material to allow for complete flexibility. 	<ul style="list-style-type: none"> • Embroidery or logo on pocket • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25	<p>Front, sides and back protection Partial front overlapping</p>	XS S M L XL XXL
Light Lead Plus	0.35/0.25 0.35/0.35		Other sizes available on request.
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Vest and Skirt Lead Aprons

Easy-Fit Lead Apron Vest

Keeping you protected and comfortable with a flexible fit



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Even transfer of weight between shoulders and hips to reduce fatigue.
- With standard Velcro thyroid collar and pocket.
- Front protection: one panel.
- Back protection: one panel.
- Adjustable Velcro flaps at front and shoulder, padded shoulders for higher comfort.
- Greater air circulation.
- Soft fabric material to allow for more flexibility.

Custom Options

- Embroidery or logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25 0.35/0.25	<p>Front and back protection</p>	XS S M L XL XXL
Light Lead Plus	0.35/0.35 0.50/0.25		Other sizes available on request.
Supreme Lead Free	0.50/0.35 0.50/0.50		

* Measurement in mm Pb.

Ergo-Fit Plus Lead Apron Vest

Keeping you fully protected and comfortable even during long procedures



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Even transfer of weight between shoulders and hips to reduce fatigue.
- With standard Velcro thyroid collar and pocket.
- Front protection: one panel.
- Back protection: two fully overlapping panels.
- Velcro straps for back support, padded shoulders for comfort.
- Soft antibacterial fabrics for flexibility.

Custom Options

- Embroidery or logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25	<p>Front, back and sides protection</p>	XS S M L XL XXL
Light Lead Plus	0.35/0.25 0.35/0.35		Other sizes available on request.
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Vest and Skirt Lead Aprons

Support Belt Lead Apron Skirt

Comfortable protection and lower back support during extended procedures



Customised
Just For YOU



Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Supportive wide belt on internal back panel for lower back support.
- Front protection: two fully overlapping panels.
- Back protection: one panel.
- Adjustable Velcro closure at front for tight fit.
- Soft fabric material to allow for full flexibility.
- Inclusions: Wide stretch belt with Velcro for lower back support.

Custom Options

- Embroidery of name/department or logo on skirt
- Pocket (for dosimeter, or special)
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35/0.25 0.35/0.35	<p>Front, sides and back protection Full front overlapping</p>	XS S M L LL XL XXL
Light Lead Plus	0.50/0.25 0.50/0.35		Other sizes available on request.
Supreme Lead Free	0.70/0.25 0.70/0.35		

* Measurement in mm Pb.

Full Wraparound Lead Apron

Keeping you protected and comfortable during diagnostic imaging procedures and surgeries



Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Even transfer of weight between shoulders and hips to reduce fatigue. • With standard Velcro thyroid collar and pocket. • Front protection: two fully overlapping panels. Double-layer for shoulder area. • Back protection: one panel. • Adjustable Velcro for correct fit and padded shoulders for additional comfort. • Soft fabric material to allow for full flexibility. 	<ul style="list-style-type: none"> • Embroidery or logo on pocket • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

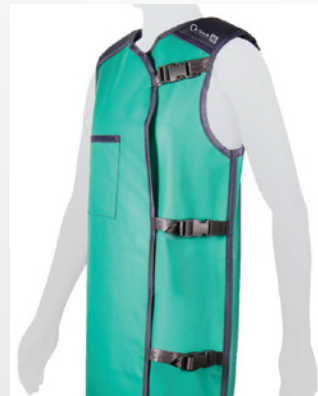
Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35/0.25 0.35/0.35	<p>Front, sides and back protection Full front overlapping</p>	XS S M L XL XXL
Light Lead Plus	0.50/0.25 0.50/0.35		Other sizes available on request.
Supreme Lead Free	0.70/0.25 0.70/0.35		

* Measurement in mm Pb.

Wraparound Lead Aprons

Coat Wraparound Lead Apron

Keeping you protected and comfortable during diagnostic imaging procedures and surgeries



Adjustable buckles



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Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Even transfer of weight between shoulders and hips to reduce fatigue.
- With standard Velcro thyroid collar and pocket.
- Front protection: two panels with partial overlap.
- Back protection: one protection panel.
- Adjustable buckle clips on sides and shoulder, padded shoulders for more comfort.
- Soft fabric material to allow for complete flexibility.

Custom Options

- Embroidery or logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25 0.35/0.25	<p>Front, sides and back protection</p>	XS S M L XL XXL
Light Lead Plus	0.35/0.35		Other sizes available on request.
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Easy-Fit Wraparound Lead Apron

Keeping you protected and comfortable during diagnostic imaging procedures and surgeries



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Unique 3-Year
Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • With standard Velcro thyroid collar and pocket. • Front protection: one panel. • Back protection: one panel. • Adjustable Velcro flaps on sides and shoulder for even weight distribution. • Padded shoulders for more comfort. • Soft fabric material to allow for complete flexibility. 	<ul style="list-style-type: none"> • Embroidery or logo on pocket • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25 0.35/0.25	<p>Front and back protection</p>	XS S M L XL
Light Lead Plus	0.35/0.35		Other sizes available on request.
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Front Lead Aprons

Front Lead Apron with Velcro or Buckle

Keeping you protected and comfortable during diagnostic imaging procedures with mainly front exposure



Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • With standard Velcro thyroid collar and pocket. • Front protection: one panel. • Adjustable Velcro flaps on hips for back support, even weight distribution and individual fit <u>or</u> buckle clip with fully adjustable strap for back support and even weight distribution. • Upper Velcro strap to keep shoulder sleeves together. • Padded shoulders for more comfort. • Soft fabric material to allow for complete flexibility. 	<ul style="list-style-type: none"> • Embroidery or logo on pocket • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25	<p>Front protection</p>	XS S M L XL XXL
Light Lead Plus	0.35		Other sizes available on request.
Supreme Lead Free	0.50		

* Measurement in mm Pb.

Drop-Off Front Lead Apron

Providing comfortable front protection during short surgeries and radiology procedures



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Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- With standard Velcro thyroid collar and pocket.
- Front protection: one panel.
- Fully adjustable Velcro strap for back support and even weight distribution.
- Padded shoulders for more comfort.
- Soft fabric material to allow for complete flexibility.

Custom Options

- Embroidery or logo on pocket
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25	<p>Front protection</p>	XS S M L XL XXL
Light Lead Plus	0.35		Other sizes available on request.
Supreme Lead Free	0.50		

* Measurement in mm Pb.

Front Lead Aprons

Economy Front Lead Apron

Providing front protection during short veterinary surgeries and radiology procedures with mainly front exposure



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Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- With standard Velcro thyroid collar.
- Front protection: one panel.
- Buckle closure.

Custom Options

- Embroidery or logo
- Bib or cosy thyroid collar with magnet or Velcro closure
- Access to A-Track inventory system
- In Standard Nylon fabric only

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25	<p>Front protection</p>	XS S M L XL XXL
	0.35		Other sizes available on request.
	0.50		

* Measurement in mm Pb.

Standard Dental Apron for Adults and Children

Keeping your patients fully protected and comfortable during dental x-ray procedures



Unique 3-Year Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Front protection: one panel. • Practical Velcro fastening, easy to fit and remove. 	<ul style="list-style-type: none"> • Embroidery of name • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35	<p>Front protection</p>	<p>Adult</p> <p>Child</p>
Light Lead Plus	0.50		Other sizes available on request.
Supreme Lead Free			

* Measurement in mm Pb.

Patient Lead Aprons

OPG Dental Apron for Adults and Children

Keeping your patients protected and comfortable during Orthopantomogram (OPG) panoramic scanning x-rays



Unique 3-Year Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Front protection: one panel. • Back protection: one back panel for shoulder protection. • With Velcro closure. • Even transfer of weight between shoulders. 	<ul style="list-style-type: none"> • Embroidery of name • Bib or cosy thyroid collar with magnet or Velcro closure • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25	<p>Front and shoulders protection</p>	<input type="button" value="Adult"/>
Light Lead Plus	0.35/0.35		<input type="button" value="Child"/>
Supreme Lead Free	0.50/0.50		Other sizes available on request.

* Measurement in mm Pb.

Paediatric Coat Wraparound Lead Apron

Keeping children fully protected and comfortable during diagnostic imaging procedures



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Unique 3-Year
Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Front protection: two panels with partial overlap. • Back protection: one panel. • Even weight distribution and individual fit. • Soft fabric material to allow for complete flexibility. • Standard size. can be made to individual measurements. 	<ul style="list-style-type: none"> • Embroidery of name/department or logo on pocket • Bib thyroid collar with Velcro • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options			
Lead	0.25/0.25	<p>Front, back and sides protection</p>	Size	S	M	L
Light Lead Plus	0.35/0.25 0.35/0.35		Age	0-4 yrs	5-8 yrs	9-12 yrs
Supreme Lead Free	0.50/0.25 0.50/0.35		Width	42-48	44-48	47-55
			Length	55	60	70

* Measurement in mm Pb.

Patient Lead Aprons

Paediatric Skirt Lead Apron

Providing protection and comfort to children throughout diagnostic imaging procedures that require full lower body protection



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Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Front Protection: two fully overlapping panels.
- Back Protection: one panel.
- Even weight distribution and individual fit.
- Soft fabric material to allow for complete flexibility.
- Easy-Clean and antibacterial fabrics available.

Custom Options

- Embroidery of name/department or logo on pocket
- Bib thyroid collar with Velcro
- Access to A-Track inventory system
- Available fabrics:
 - Easy-Clean Flex-DC
 - Stain Resistant Spangly
 - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options			
Lead	0.35/0.25 0.35/0.35	<p>Front, back and sides protection</p>	Size	S	M	L
Light Lead Plus	0.50/0.25 0.50/0.35		Age	0-4 yrs	5-8 yrs	9-12 yrs
Supreme Lead Free	0.70/0.25 0.70/0.35		Width	50	54	59
			Length	35	40	50

* Measurement in mm Pb.

Paediatric Easy-Fit Wraparound Lead Apron

Keeping children fully protected and comfortable during diagnostic imaging procedures



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Unique 3-Year
Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Front Protection: one panel. • Back Protection: one panel. • Adjustable Velcro flaps on hips for back support. • Even weight distribution and individual fit. • Soft fabric material to allow for complete flexibility. 	<ul style="list-style-type: none"> • Embroidery of name/department or logo on pocket • Bib thyroid collar with Velcro • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.25/0.25	<p>Front and back protection</p>	<p>Width: 40cm</p> <p>Length: 67cm</p> <p>Other sizes available on request.</p>
Light Lead Plus	0.35/0.25 0.35/0.35		
Supreme Lead Free	0.50/0.25 0.50/0.35		

* Measurement in mm Pb.

Paediatric Front Lead Apron with Velcro

Keeping children protected and comfortable during diagnostic imaging procedures that only require front protection



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Unique 3-Year
Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Front Protection: one panel. • Adjustable Velcro flaps on hips for back support, even weight distribution and individual fit. • Upper Velcro strap to keep shoulder sleeves together. • Soft fabric material to allow for complete flexibility. 	<ul style="list-style-type: none"> • Embroidery of name/department or logo on pocket • Bib thyroid collar with Velcro • Access to A-Track inventory system • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Protection	Size Options
Lead	0.35	<p>Front protection</p>	<p>Width: 40cm</p> <p>Length: 67cm</p>
Light Lead Plus	0.50		Other sizes available on request.
Supreme Lead Free			

* Measurement in mm Pb.

Gonad Shields for Children and Adults

Protecting reproductive organs of male patients during pelvic radiography and radiation therapy



Adult



Children



Unique 3-Year Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Male gonad protection.
- Sealed edges for hygiene control.
- In Easy-Clean Flex-DC fabric, blue only.

Protection Materials	Lead Equivalence*	Size Options (Adult)	Size Options
Lead	1.00	22cm sides	S: 0-9 yrs
Light Lead Plus			M: 9-14 yrs
Supreme Lead Free			L: 14+ yrs
			Adult

* Measurement in mm Pb.

Ovarian Shields for Children and Adults

Protecting ovaries and other reproductive organs of female patients during pelvic radiography and radiation therapy



Adult



Children



Unique 3-Year Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Female ovarian protection.
- Sealed edges for hygiene control.
- In Easy-Clean Flex-DC fabric, blue only.
- Ovarian shields for children are available in set of 4, for adults in set of 3.
- Velcro belt for attachment.

Protection Materials	Lead Equivalence*	Size Options (Adult)	Size Options (Children)
Lead	1.00	S	XS
Light Lead Plus		M	S
		L	M
Supreme Lead Free			L

* Measurement in mm Pb.

Patient Half Lead Apron

Protect your patients during diagnostic imaging procedures, for instance chest x-rays



Unique 3-Year Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Versatile and flexible patient protection. • Three closure types. • Available in three protection thicknesses. • Sold individually. 	<ul style="list-style-type: none"> • Patient Half Lead Apron: <ul style="list-style-type: none"> - Web belt with Velcro - Web belt with buckle - Spring vinyl covered belt - Wall-mounted hanger available • Fabric Options: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain resistant Spangly - Standard Nylon

Protection Materials	Lead Equivalence*	Size Options
Lead	0.25	XS: 25x25 S: 30x30
Light Lead Plus	0.35	M: 40x40 L: 50x50
Supreme Lead Free	0.50	XL: 60x60 Other sizes available on request.

* Measurement in mm Pb.

Patient Shield for CT Scans with Thyroid Protection

Protecting patients during CT Scans, e.g. cranial CT.
Reducing exposure of thyroid, sternum, chest and shoulder joints.



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© MAVIG GmbH, Munich

Product Features Overview	Fabric Material
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Easy to use and position without any tools or closure systems. • Additional thyroid shield can be folded into position. • Reusable, sustainable. 	<ul style="list-style-type: none"> • Fabric Option: Flex DC navy only

Protection Materials	Lead Equivalence*	Size Options
Lead	0.35	Standard width 60 or 90cm Custom lengths available. Other sizes available on request.
	0.50	
	1.00	

* Measurement in mm Pb.

Radiation Protection Blanket for Patients

Targeted protection for patients during diagnostic imaging procedures combined with easy handling



Unique 3-Year Guarantee

Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Versatile and flexible patient protection. 	<ul style="list-style-type: none"> • Fabric Option: Flex DC navy only

Protection Materials	Lead Equivalence*	Size Options
Lead	0.25	Custom sizes on request.
Light Lead Plus	0.35	
Supreme Lead Free	0.50	

* Measurement in mm Pb.

Thyroid Collars

Protecting your thyroid glands and breastbone from radiation exposure during all diagnostic imaging procedures



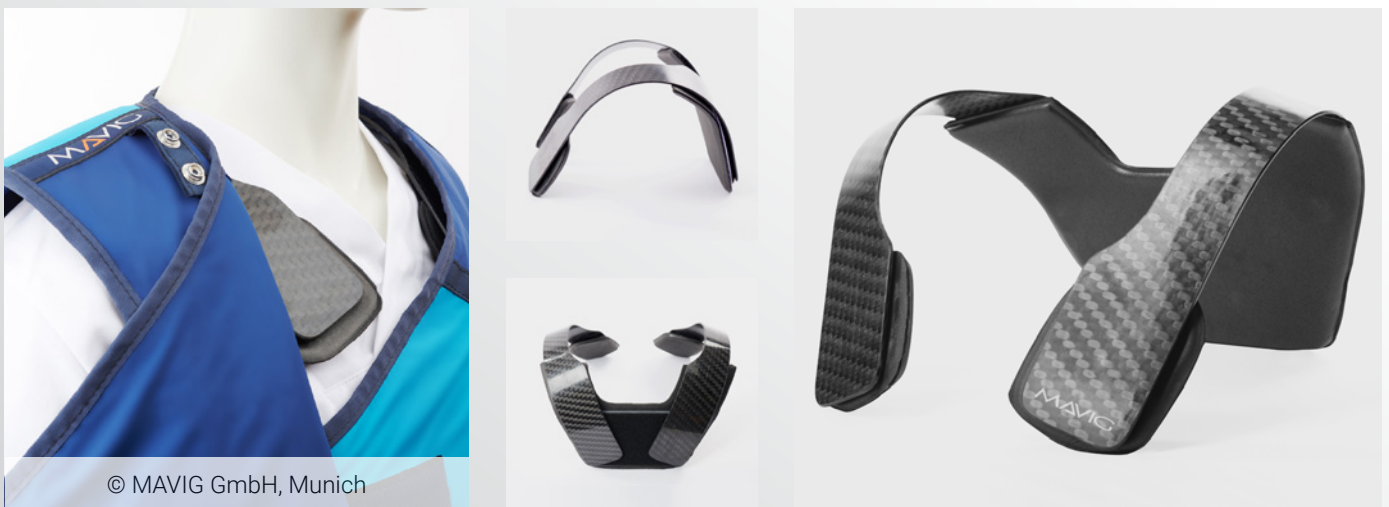
Product Features Overview	Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Two protection thicknesses available. • Two closures: Velcro and magnet (easy to clean, more durable). • All fabrics and colours. 	<ul style="list-style-type: none"> • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon • Two closures: <ul style="list-style-type: none"> - Magnet - Velcro

Protection Materials	Lead Equivalence*	Size Options
Lead	0.35	Adult Children (Bib collar Velcro only)
Light Lead Plus	0.50	
Supreme Lead Free		

* Measurement in mm Pb.

BRYGGA® – Shoulder Weight Relief for Apron Users

Reducing physical strain and muscular fatigue on your neck, shoulder area and back. Relieving pressure normally caused by the weight of the apron loaded onto the shoulder area. Spreading the weight more evenly and resting on the bone structure rather than the muscles and nerve-centre, particularly beneficial during long procedures.



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Product Features Overview

- Recommended to use under lead apron vests.
- Does not hinder the user or interfere with procedures.
- Promotes an ergonomically correct posture.
- Greatly reduces the risk of tension headache and numbness of the arms.
- Full freedom of movement of the neck and arms.
- Easy cleaning (just wipe off with any cleaning agent).
- Very comfortable.
- Simple adjustment.

Material

- Outer material 100% durable carbon fibre
- Padding foam:
 - Outside: Evazote, density 50
 - Inside: Polyethylene, density 70

Size Options

S/M

L

Radiation Protection Accessories

Lead Hats

Protecting your head against scatter radiation during interventional cases



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Guarantee



Mesh lead cap



Elastic lead hat



Product Features Overview		Custom Options
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Elastic lead hat features adjustable elastic band. • Mesh lead cap with breathable mesh insert on top that helps to dissipate heat, with elasticated string at rear. 		<ul style="list-style-type: none"> • Available fabrics: <ul style="list-style-type: none"> - Easy-Clean Flex-DC - Stain Resistant Spangly - Standard Nylon
Protection Materials	Lead Equivalence*	Size Options
Lead	0.35	One Size
Light Lead Plus	0.50	
Supreme Lead Free		

* Measurement in mm Pb.

Reusable Lead Gloves

Protecting your hands against scatter radiation from x-ray machines, CT scanners and other devices. Ideal for x-ray equipment operators.



Product Features Overview		Material
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Available as single or pair. • Full hand mobility. 		<ul style="list-style-type: none"> • Made of lead vinyl for easy grip • With inner cotton glove • Blue leather cover
Protection Materials	Lead Equivalence*	Size Options
Lead		One Size – Length: 35cm
Light Lead Plus	0.50	
Supreme Lead Free		

* Measurement in mm Pb.

Disposable Lead Gloves (XGUARD)

Protecting hands from scattered ionising radiation during high exposure procedures whenever a high degree of tactile sensitivity is needed. Ideal for cardiology, orthopaedics, EP/Cath lab, intensive care, radiology, nuclear medicine, haemodynamics, neuroradiology, urology, pain management, endoscopy, and resuscitation.



Unique 3-Year Guarantee

Product Features Overview		Ideal for High Exposure Procedures
<ul style="list-style-type: none"> • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. • Suitable for use against risks from scattered ionising radiation and chemicals (30% Hydrogen peroxide, 40% Sodium hydroxide, 96% Sulphuric acid). • Sterile (single-use). • Powder-free, latex-free, lead-free. • Dexterity Level 5 (on a scale of 1 min to 5 max). • Anatomically correct curved fingers reduce hand fatigue. 		<ul style="list-style-type: none"> • Ablations • PTCAs • Biliary drainage • ICDs • Stents • TIPS • Pacemakers • Vascular procedures • Lead extractions
Lead Equivalence*	Size Options	Selling Unit
0.22	RR 1 and RR 2: 6-9 Including half sizes.	Box of 5
0.30		

* Measurement in mm Pb.

Radiation Protection Accessories

Lead Sleeve, Arm Protector, Shin Guards with Foot Protection

Protecting your shoulder joints, forearms and upper arms, lower legs and feet against scatter radiation during interventional procedures



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Unique 3-Year
Guarantee

Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Sleeves and arm protector available as a pair or individually.
- Shin guards available as a pair only.
- Shin guards and foot protector available separately.
- Arm protector and shin guards tighten around your arms/ legs with easy fit Velcro straps.
- Lead sleeves supplied directly stitched on wraparound or vest lead apron, or with easy fit Velcro.
- Full mobility.

Protection Materials	Lead Equivalence*	Size Options
Lead	0.35	One Size Other sizes available on request.
Light Lead Plus	0.50	
Supreme Lead Free		

* Measurement in mm Pb.

Belts for Lower Back Support

Providing greater comfort and support to your lower back by transferring the lead apron's weight from shoulders to hips. Ideal for healthcare professionals who perform long diagnostic imaging procedures.



Support belt for skirt



Corset belt - front



Corset belt - back



Stretch belt with buckle clip - back



Stretch belt with buckle clip - side



Unique 3-Year Guarantee

Product Features Overview

- A 15cm wide Support Belt is included in the purchase of every lead apron skirt.
- A 15cm Wide Stretch Belt with Buckle Clip can be supplied as individual items or attached to lead apron.
- Corset Belt provides adjustment with pull cord for individual fit and maximum comfort.

Size Options

Stretch belt:

S/M **L**

Corset belt:

S **M** **L** **XL**

Radiation Protection Eyewear



The eyes are the most sensitive area of the body to radiation and susceptible to damage by exposure during diagnostic imaging procedures and work around type of imaging equipment, risking the development of lens opacities and cataracts.

Deutsch Medical's Radiation Protection Eyewear protects the eyes of healthcare professionals, who work in areas such as cardiac electrophysiology (EP) and catheterisation laboratories, radiology, orthopaedic surgeries, urologic procedures, pain management and furthermore, from harmful x-ray and scattered radiation.

"According to today's knowledge, early stages of radiation-induced cataracts can occur already from a radiation exposure level of 0.5 Gy."^{1,2} "Regardless of whether the dose occurs acutely or over an extended period, the effect is cumulative, single doses accumulate."¹ As a result, "the ICRP Commission now recommends an equivalent dose limit for the lens of the eye of 20 mSv in a year, averaged over 5 years, with no single year exceeding 50 mSv."³ This means for many radiation users that the radiation dose limit could be reached across their working life.



Lightweight and Comfortable

Keeping your eyes fully protected and comfortable with lightweight lead glasses even throughout long procedures.



Individual Fit

Choose from more than 50 stylish frame options and various colours to fit your individual face shape.



Prescription Lead Glasses

Offering prescription lead glasses to suit any script, including single vision, bifocal and progressive prescription lenses.



Protection

Protecting you with 0.75mm Pb leaded lenses and 0.50mm Pb leaded side shields providing highest protection against x-ray radiation.



Peace of Mind

Giving you personal confidence in the high quality of our leaded lenses and frames by offering a 2-Year-Guarantee on materials and workmanship.



Highest Industry Standards

Conforming with AS/ NZS 4543.3:2000 and ALL major global standards: IEC 61331-3:2014, ASTM F2547 and DIN 6867-2, CE 0598.

REFERENCES:

- 1 SSK: Radiation-induced cataracts, recommendation of the Radiation Protection Commission with scientific justification [conference]. - Bonn, May 14th, 2009. - 234th edition Session of the Radiation Protection Commission on May 14th, 2009. - P. 9, 18, 21.
- 2 Radiological Protection Ordinance: Ordinance on protection against damage caused by ionising radiation [Ordinance]. - October 2011 - P. 31, 32, 34.
- 3 (1) ICRP (2011), Statement on Tissue Reactions, Available online, Sep 2019.

Our Range of Radiation Protection Eyewear

We offer a comprehensive range of stylish Lead Glasses designed to provide comfortable protection and to fit various face shapes. Choose between standard, prescription, low-fit or 'fit over prescription' lead glasses. Improve your vision by adding optional extras, such as anti-fog to minimise fog or anti-reflective coatings to reduce glare and lens reflections.



Non-Prescription Lead Glasses

Protecting your eyes from radiation with a complete range of modern and lightweight lead glasses.



Prescription Lead Glasses

Providing protection for eyes that require near and/ or distance vision.



Low-Bridge Fit Lead Glasses

Designed to fit comfortably on faces with a lower nose bridge and away from cheekbones.



Fitover Lead Glasses

Lead glasses that fit over your standard prescription eyewear.



Accessories for Lead Glasses

Maintaining and caring for your lead glasses.



Claim Your Free Trial

Making it easy to find your lead glasses that fit and best protect you.

On the following pages, we have instituted a new reference system which will help you to easily identify which prescription type can be accommodated by each frame and what specific features are included.

PL Plano

SV Single Vision

BF BiFocal

PG Progressive

SS Side Shields

CE Custom Engraving

AF Anti-Fog

AR Anti-Reflective

Radiation Protection Eyewear

Oakley Lead Glasses*

Lightweight and stylish protection for all visions.



Two Face

PL

SV

BF

PG

AF

AR

- Weight: 64g
- Face Shapes: Medium, Large
- Frame Colours: Polished Black w/Steel Grey, Triple Black
- Low-Bridge Fit

CrossLink

PL

SV

BF

PG

AF

AR

- Weight: 58g
- Face Shapes: Small, Medium
- Frame Colours: Satin Black, Grey Smoke
- Low-Bridge Fit



Jupiter Squared

PL

SV

BF

PG

AF

AR

- Weight: 65g
- Face Shapes: Medium, Large
- Frame Colours: Woodgrain

FuelCell

PL

SS

AF

AR

- Weight: 72g
- Face Shapes: Medium, Large
- Frame Colours: Matte Black, Camouflage

* Detailed information about size frames, prescription limits available [online](#).

Costa Lead Glasses*

Lightweight and comfortable protection.
With low-bridge fit.



Brine

PL

SV

AF

AR

- Weight: 56g
- Face Shapes: Small, Medium
- Colours: Black

Tuna Alley

PL

SS

AF

AR

- Weight: 69g
- Face Shapes: Medium, Large
- Colour: Black



Permit

PL

SS

AF

AR

- Weight: 69g
- Face Shapes: Medium, Large
- Colour: Black

* Detailed information about size frames, prescription limits available [online](#).

Radiation Protection Eyewear

Rudy Project Lead Glasses*

Ultralight and comfortable protection for your eyes with low-bridge fit. Frames made of Kynetium, Grilamid, Titanium and Carbon Fibre.



Contender

PL

SS

AF

AR

- Weight: 73g
- Face Shapes: Medium, Large
- Colour: Black
- Low-Bridge Fit

Voltage

PL

AF

AR

- Weight: 59g
- Face Shapes: Small
- Colour: Carbon Grey
- Low-Bridge Fit



Sensor

PL

SV

BF

PG

AF

AR

- Weight: 54g
- Face Shapes: Small, Medium
- Colour: Carbon Silver
- Low-Bridge Fit

* Detailed information about size frames, prescription limits available [online](#).

Nike Lead Glasses*

Universally fitting, stylish and comfortable protection for all visions.



MADE IN USA



Brazen

- PL
- SV
- BF
- PG
- CE
- AF
- AR

- Weight: 76g
- Face Shapes: Universal fitting
- Colour: Black, Blue/Matte Black

Premier

- PL
- SV
- BF
- PG
- CE
- AF
- AR

- Weight: 78g
- Face Shapes: Medium, Large
- Colour: Black, Grey



Rabid

- PL
- AF
- AR

- Weight: 64g
- Face Shapes: Small, Medium,
- Colour: Black, Anthracite

Maverick

- PL
- SV
- BF
- PG
- AF
- AR

- Weight: 78g
- Face Shapes: Large, Extra large
- Colour: Black, Blue

* Detailed information about size frames, prescription limits available [online](#).

Radiation Protection Eyewear

Barrier Technologies Lead Glasses*

Lightweight radiation and splash protection for all visions and face shapes.



Astro II

- PL
- SV
- BF
- PG
- SS
- AF
- AR

- Weight: 67g
- Face Shapes: Medium, Large
- Colour: Clear Blue

Atomic

- PL
- SV
- BF
- PG
- SS
- AF
- AR

- Weight: 64g
- Face Shapes: Medium, Large
- Colour: Grey, Black, Blue



Blade II

- PL
- SV
- SS
- AF
- AR

- Weight: 52g
- Face Shapes: Small
- Colour: Black

T-Zone

- PL
- SV
- BF
- PG
- SS
- AF
- AR

- Weight: 66g
- Face Shapes: Small to Extra large
- Colour: Grey, Black, Blue, Red
- Available in 3 frame sizes

* Detailed information about size frames, prescription limits available [online](#).

Phillips Safety Lead Glasses*

Comfortable wraparound frames for all visions and face shapes.



MADE IN USA



Maxx (small and medium)



- Weight: 63g - 70g
- Face Shapes: Small, Medium
- Colour: Red, Blue, Black
- Available in 2 frame sizes



DM-808



- Weight: 72g
- Face Shapes: Medium, Large
- Colour: Black, Red



DM-16001



- Weight: 70g
- Face Shapes: Medium, Large
- Colour: Black



DM-208



- Weight: 67g
- Face Shapes: Medium, Large
- Colour: Black, Red

* Detailed information about size frames, prescription limits available [online](#).

Radiation Protection Eyewear

Phillips Safety Lead Glasses*

Stylish protection for your eyes.



 **MADE IN USA**



Hipster



- Weight: 87g
- Face Shapes: Medium, large
- Colour: Black



DM-P104



- Weight: 72g
- Face Shapes: Small, Medium, Large
- Colour: Black



DM-17007A



- Weight: 70g
- Face Shapes: Small, Medium
- Colour: Black



DM-X26



- Weight: 90g
- Face Shapes: Medium, Large
- Colour: Black

* Detailed information about size frames, prescription limits available [online](#).

RX Safety Lead Glasses*

Radiation protection for eyes that need high prescription.



Hipster Twister



- Weight: 73g
- Face Shapes: Small, Medium
- Colour: Black, Burgundy



Optical Cummings



- Weight: 78g
- Face Shapes: Small, Medium
- Colour: Grey



Essence



- Weight: 80g
- Face Shapes: Small, Medium
- Colour: Purple, Black, Clear/White



Point Break



- Weight: 85g
- Face Shapes: Medium, Large
- Colour: Pink/Black

* Detailed information about size frames, prescription limits available [online](#).

Radiation Protection Eyewear

Fitover Lead Glasses*

Fitting over your standard prescription eyewear.



DM-33

- PL
- SV
- BF
- PG
- SS
- CE
- AF
- AR

- Weight: 88g
- Face Shapes: Medium, Large
- Colour: White, Black



DM-17001

- PL
- SV
- BF
- PG
- SS
- CE
- AF
- AR

- Weight: 95g
- Face Shapes: Medium, Large
- Colour: Black



Goggle Fitover

- PL
- SS
- CE
- AF

- Weight: 95g
- Face Shapes: Large, X-Large
- Colour: Black



Yamba

- PL
- SS
- CE
- AF

- Weight: 90g
- Face Shapes: Large, X-Large
- Colour: Black

* Detailed information about size frames, prescription limits available [online](#).

Low-Bridge Fit Lead Glasses*

Designed to fit comfortably on faces with a lower nose bridge and away from cheekbones.



MX30 Low-Fit



- Weight: 63g
- Face Shapes: Small, Medium
- Colour: Black with red nose pad
- Available in 2 frame sizes



Hipster



- Weight: 87g
- Face Shapes: Medium, large
- Colour: Black



Blade II



- Weight: 52g
- Face Shapes: Small
- Colour: Black



Contender



- Weight: 73g
- Face Shapes: Medium, Large
- Colour: Black

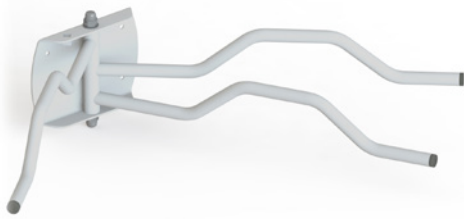
* More choices are available online. Detailed information about size frames, prescription limits available [online](#).

Wall Mounted Hangers

Protect and efficiently store your lead aprons, especially when space is a problem. Ideal for one-piece lead aprons, e.g. wraparound or front lead aprons.



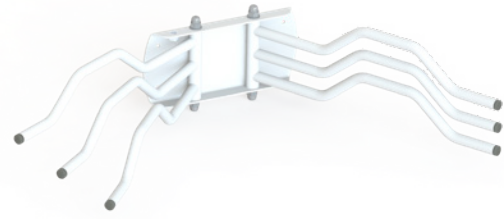
Unique 3-Year
Guarantee



3 Lead Aprons Wall Hanger

Product Features Overview

- Made in powder-coated steel
- Revolving supports
- Hang 3 one-piece aprons
- Dimensions:
 - Height: 14.6cm
 - Length of arm: 57cm



6 Lead Aprons Wall Hanger

Product Features Overview

- Made in powder-coated steel
- Revolving supports
- Hang 6 one-piece aprons
- Dimensions:
 - Height: 14.6cm
 - Length of arm: 57cm



Metallic Lead Apron Wall Bracket

Product Features Overview

- Stainless steel backplate 110mm wide x 58mm high, projecting 165mm
- Complete with wall plugs and four fixing screws
- Incl. three metallic lead apron swivel hangers



Metallic Lead Apron Swivel Hanger

Product Features Overview

- Hook of the swivel hanger made of stainless steel
- Hanger cross bar of 1.3cm anodised aluminium
- Hanger dimensions 59cm long x 15cm high
- Ideal for wall bracket and H-Rack

Mobile Lead Apron Racks for Vests and Skirts

Protect and efficiently store your lead aprons.
Ideal for two-piece lead aprons, such as vests and skirts.



Unique 3-Year
Guarantee



Mobile Lead Apron Rack for 5 Vests and Skirts

Product Features Overview

- Material: Powder-coated steel
- Assembled dimensions: L1350 x W523 x D645mm
- Weight: 22kg
- Supports 5 vests and skirts of up to 100kg
- Delivery options: Fully assembled or as flat pack (incl. delivery insurance)
- Certification: ISO9001:2015



Mobile Lead Apron Rack for 10 Vests and Skirts

Product Features Overview

- Material: Powder-coated steel
- Assembled dimensions: 1567 x 630 x 1617mm
- Weight: 42 kg
- Supports 10 vests and skirts of up to 200kg
- Made in Australia by Deutsch Medical
- Delivery options: Fully assembled or as flat pack (incl. delivery insurance)
- ISO13485 certification

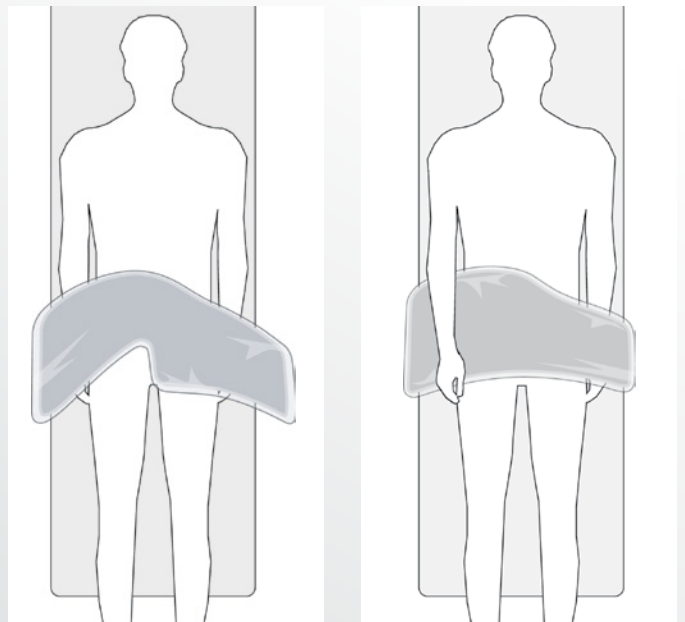
Scatter Reducing Drapes

Reusable Scatter Reducing Drapes with Femoral or Radial Access

Protecting interventionalists against scatter radiation emitting from the patient's body during interventional diagnostic imaging procedures requiring femoral or radial access.



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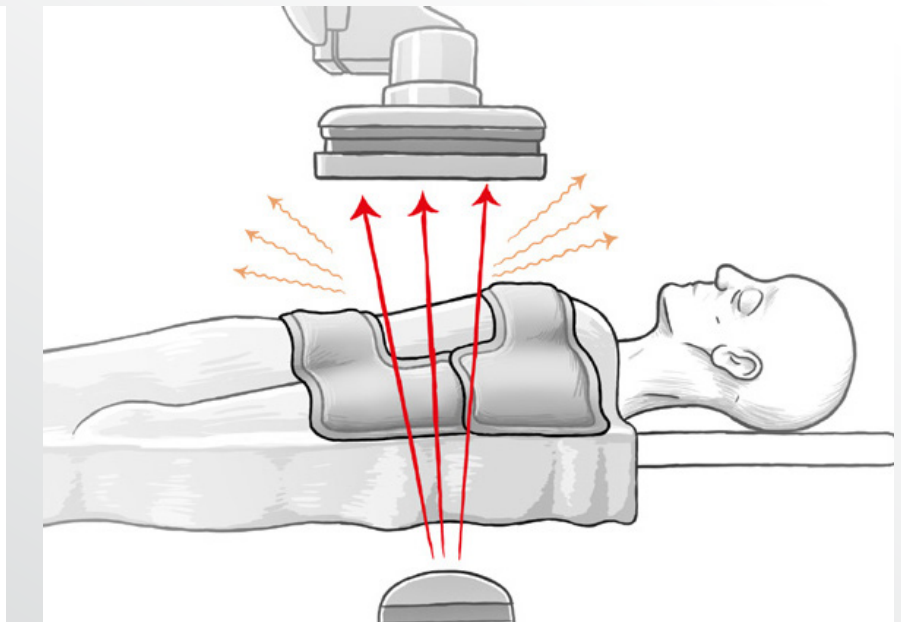
Product Features Overview	Fabric/Colours	Accessories
<ul style="list-style-type: none"> • Weight: 1.31kg (femoral drape), 1.56kg (radial drape). • Purchase of the drapes includes 50 sterile covers. • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. 	<ul style="list-style-type: none"> • Mandarin (Front) • Titan (Back) • Cleanable like a lead apron 	<ul style="list-style-type: none"> • 50 sterile disposable covers

Protection Materials	Lead Equivalence*	Size Options
Lead	0.50	<ul style="list-style-type: none"> Drape with femoral access: 75 x 36cm Drape with radial access: 75 x 40cm

* Measurement in mm Pb.

Reusable Scatter Reducing Drapes with Adjustable Cut-out

Protecting interventionalists against scatter radiation emitting from the patient's body, for instance during ERCP (endoscopic retrograde cholangiopancreatography) and other diagnostic imaging procedures.



Product Features Overview	Fabric/Colours	Custom Option
<ul style="list-style-type: none"> • Application possible for patients lying on their side, in prone position (lying front down), or dorsal position (lying on the back). • Adaptable to the examination field. • Cut-out for endoscopy. • Weight: 4.75kg (minimal weight impact on patient). • Optional shoulder cover already included for protection of the acromioclavicular joint. • Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000. 	<ul style="list-style-type: none"> • User side: blue • Patient side: orange • Cleanable like a lead apron 	<ul style="list-style-type: none"> • Embroidery on request

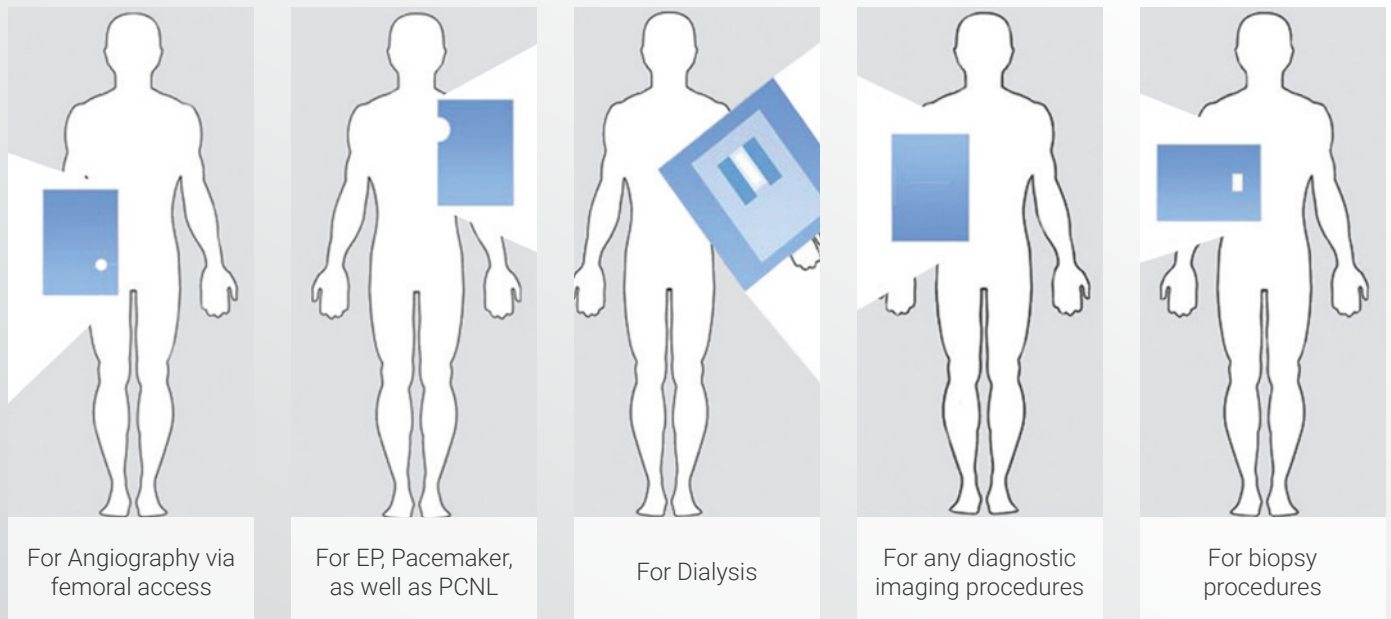
Protection Materials	Lead Equivalence*	Size Options
Lead	0.50	105 x 103cm

* Measurement in mm Pb.

Scatter Reducing Drapes

Disposable Scatter Reducing Drapes

Protecting interventionalists against scatter radiation emitting from the patient's body during diagnostic imaging procedures such as angiography, EP, pacemaker, PCNL (percutaneous nephrostolithotomy or nephrolithotomy), dialysis, urology (lithotomy) and others.



Product Features Overview

- Radiation Protection Standards: IEC 61331.1-2014 & IEC 61331.3-2014, AU/NZS 4543.3-2000.
- Sterile/disposable – no cross contamination.
- Lead free material – environmentally friendly.
- Repositionable – does not affect physician's work routine.
- Fluid absorbent outer material.
- Supports ALARA radiation safety principle (as low as reasonable achievable).

Protection Materials

Supreme Lead Free

Attenuation

95% at 100 kVp

Sizing Chart (Adults) for Radiation Protection Aprons

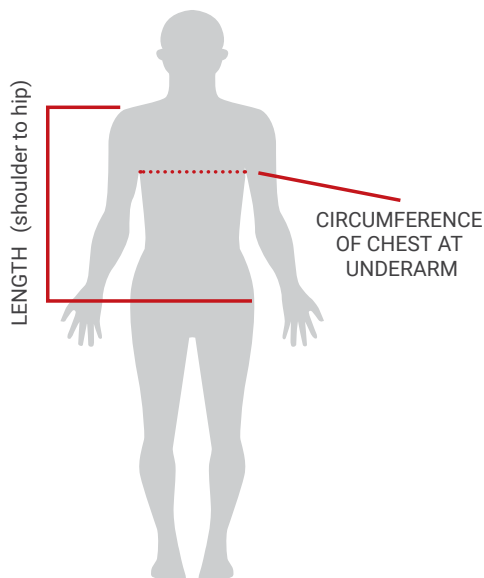
The following sizing chart caters for our most popular (standard) sizes. If you need help selecting the right size, please refer to the measuring guidelines below the sizing table.

If your individual measurements do not fit the standard sizing charts below, please feel free to send them to info@deutschmedical.com.au and we will assist you in choosing the most suitable size for your radiation protection apron.

Sizing Chart for Vest and Skirt Lead Aprons

Lead Apron Vest (in cm)						
Size	XS	S	M	L	XL	XXL
		91	97	107	113	120
Chest circumference	80-85	86-91	92-97	98-107	108-113	114-120
Length	50	55	60	65	65	65

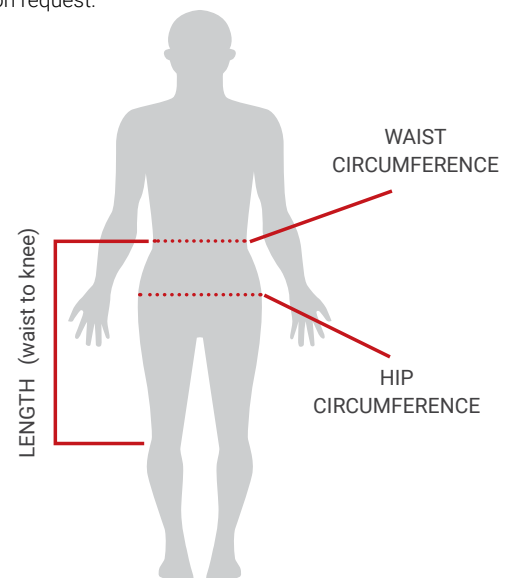
When measuring total length allow for overlap. Other sizes available on request.



My Individual Vest Measurements	
Circumference of chest at underarm	cm
Length from (highest point of) shoulders to hip	cm

Lead Apron Skirt (in cm)							
Size	XS	S	M	L	LL	XL	XXL
Waist	65	70	75	81	87	93	103
Recommended waist measurements	63-67	68-72	73-78	79-84	85-90	91-97	98-108
Hips	90	95	100	106	112	118	128
Length	50	60	60	60	60	60	60

When measuring total length allow for overlap. Other lengths available: 70, 80. Any combination of size and length available. Other sizes available on request.



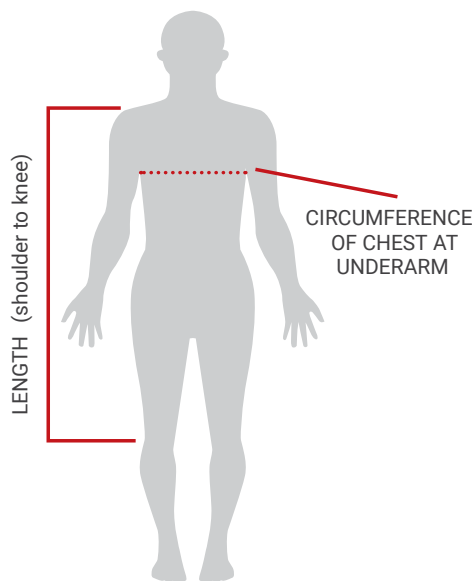
My Individual Skirt Measurements	
Waist circumference	cm
Hips circumference	cm
Length from waist to knee	cm

Sizing Charts

Sizing Chart for Wraparound Lead Aprons

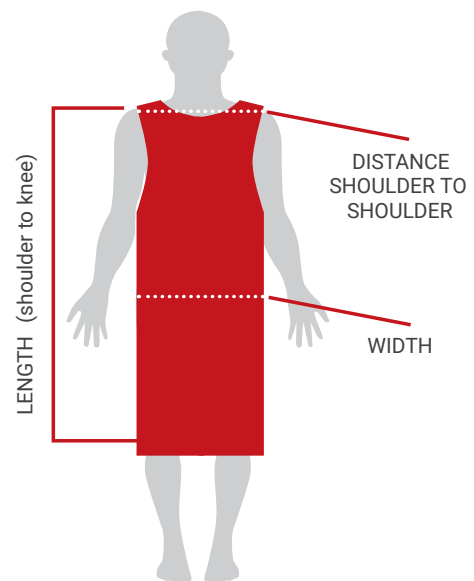
Coat Wraparound & Full Wraparound Lead Apron (in cm)						
Size	XS	S	M	L	XL	XXL
		91	97	107	113	120
Chest circumference	80-85	86-91	92-97	98-107	108-113	114-120
Standard length	100	100	100	100	100	100

When measuring total length, allow for frontal overlap. For a better fit, measure at the widest point. Other lengths available: 90, 110, 120. Other sizes available on request.



Easy-Fit Wraparound Lead Apron (in cm)					
Size	XS	S	M	L	XL
Shoulder width	36	36	42	42	50
Front/Back width	50/50	55/55	60/60	60/75	75/75
Standard length	100	100	100	100	100

Shoulder width 36, 42 and 50 available on request. Other lengths available: 90, 110, 120. Other sizes available on request.



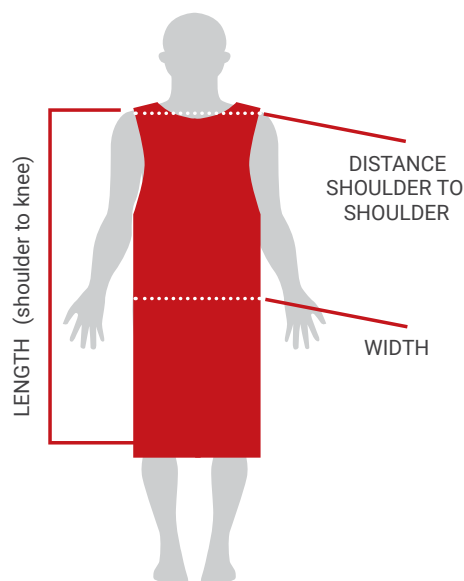
My Individual Coat Wraparound & Full Wraparound Measurements	
Circumference of chest at underarm	cm
Length from (highest point of) shoulders to below knee	cm

My Individual Easy-Fit Wraparound Measurements	
Distance shoulder to shoulder	cm
Length from (highest point of) shoulders to below knee	cm
Width at hip	cm

Sizing Chart for Front Lead Aprons

Front Lead Aprons (in cm)					
Size	XS	S	M	L	XL
Shoulder width	36	36	42	42	50
Front width	50	55	60	75	75
Standard length	100	100	100	100	100

Shoulder width 36, 42 and 50 available on request. Other lengths available: 90, 110, 120. Other sizes available on request.



My Individual Measurements	
Distance shoulder to shoulder	cm
Length from (highest point of) shoulders to below knee	cm
Width at hip	cm

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deutschmedical.com.au



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Protecting healthcare professionals & their patients

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