

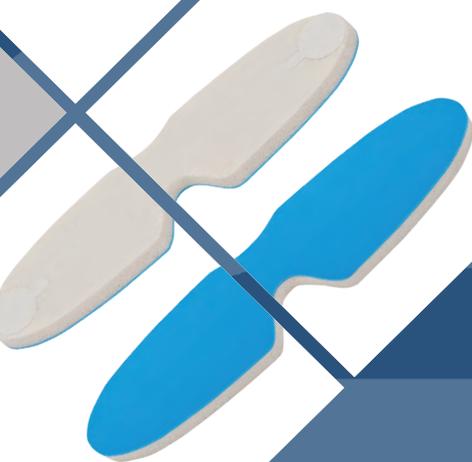
# rego

*An Excellent Name in Medicine*

Product Catalogue







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## Company Profile

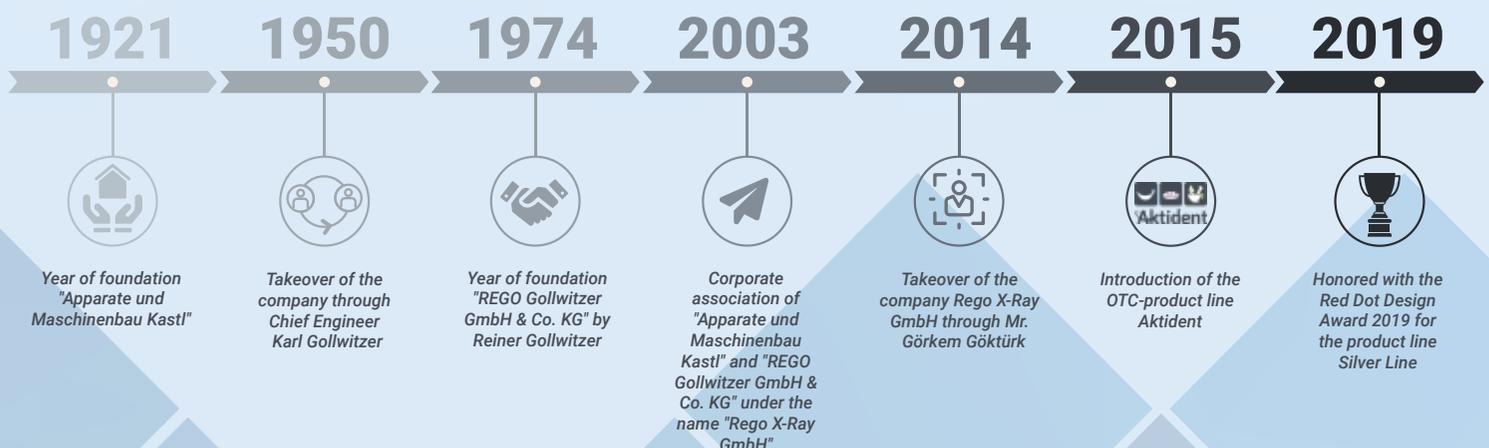
From the production of filters for pumping systems, special machines and aluminium sheet metal processing through "Apparate und Maschinenbau Kastl", medicine products and also X-Ray products with appropriate high quality accessories were developed. Since 1994 all products are in conformity with the quality management standard ISO 9001. Additionally, all products of the X-Ray protection clothes and accessories are fulfilling the standards of the personal protection equipment 2016/425.

For years we have been and still are a reliable supplier and partner with our quality products in the medical technology, for OTC-products, X-Ray aprons, X-Ray- and radiology equipment.

## Vision

The company Rego X-Ray GmbH is a manufacturer of medical products, which have to meet high demanding requirements.

It is our goal and motivation to be a key player in the medical field. We achieve this excellence by offering and supplying high quality, solution-oriented products and services in order to solve customer problems. This also includes the compliance with legal and standards-related requirements.





ISO 9001 Certificate



PSA 2016/425  
Module D Certificate

# reGO

## X-Ray Protection Clothes



# Rego – X-Ray Protection Clothes

For both medical staff and patients you need different models of X-Ray aprons: Depending on the applications, different models are required (for example coat apron, wrap around apron, costume, surgeon's apron, double-sided apron or for dental applications a dental apron, a standard patient protection or a panoramic one).

REGO offers all these models in two different product lines: Silver Line and Classic Line. The main difference is the material used on the interior side of the outer layer. You are interested in the characteristics and benefits of the different product lines? You can find these in the appropriate chapters. In addition, you get detailed information about the application areas and the handling of the different X-Ray protection aprons.

You are looking for a specific X-Ray protection apron for medical staff or patients in your favourite colour? Please choose one of our numerous models, described in the following chapters. They are all available in the lead values of 0,25 mm Pb, 0,35 mm Pb and 0,50 mm Pb and in different colours.

If you like it colourful or prefer muted colours, we have a solution for each preference. Please choose from a colour range of eight colours: atlantic blue, bavarian blue, cherry red, smaragd green, sunset red, titan silver, dark pink, bordeaux red. Specially for children we offer the design of sea animals.

For customized lead aprons, we have several options for you to choose:

From a fixed embroidery on the apron or on the thyroid collar to the fixation of it via Velcro to the apron. If you have individual ideas or wishes, please contact us. Of course, we will be happy to help and advise you.

## Overview - Our Cuts

Over the course of our product adjustment, we can offer different fits for our X-ray apron models wrap-around apron and costume to you. So you will surely find the best fitting apron and vest-skirt combination.

Our fit "Comfort fit", which is a loosely fitting, widely cut is an alternative to our waisted and modern fit "Slim fit".

The rest of our apron models varies only concerning the used material and the design, but not in their fits.

To simplify the choice of your preferred apron, you can find a size chart ahead. Please note that you have the possibility of varying the sizes separately of each skirt and vest. So at the end your costume fits nearly like customized.





## Overview of Design and Colour – X-ray Protection Aprons and Accessories

The “**Classic Line**” product line, which is offered in the comfort and slim fit version, captivates with its loosely or waisted fit on one hand and with its classic and long-standing materials on the other hand.

The interior protection material is covered by our double-sided fabrics “**Classic Line**”. It convinces with its robust, water-repelling and easy-care properties. Shoulder pads are included in the basic equipment. In addition, you can get chest or skirt pockets as well as embroideries for the **Classic Line** models, on request.

**Silver Line**, available in the waisted slim fit, is especially characterized by its new, functional and silver thread-interwoven material of the outer layer’s interior side. The characteristics and advantages of this fibre will be explained in the following chapters. The outer layer of this product line consists of the **Classic Line** material in atlantic blue, in addition to trendy **Classic Line** material applications in your favourite colour. Shoulder pads, chest and skirt pockets are included in the basic equipment, additional features can be integrated on request.



## Silver Line

Our standard colours are shown below:



**Silver Line – the inner side of outer cover : navy blue.**  
**Other colours on request.**

# Red Dot Design Award





# reddot award

product design 2019



## Certificate Red Dot

The Red Dot is the award for high design quality. The international jury for the Red Dot Award: Product Design only awards this sought-after seal of quality to products that feature an outstanding design. In 2019, it is presented to:

### Silver Line

X-Ray Protective Aprons

Manufacturer:  
Rego X-Ray GmbH  
Augsburg, Germany

In-house design:  
Sonja Reinighaus

Essen/Germany, 8 July 2019

Professor Carlos Hinrichsen  
Member of the jury  
Chile

Wolfgang K. Meyer-Hayoz  
Member of the jury  
Switzerland

Alexander Neumeister  
Member of the jury  
Germany / Brazil

Professor Dr. Peter Zec  
Founder & CEO of Red Dot  
Germany

# Silver Line Pure Silver – Pure Performance in X-Ray Protection



Bacterial contamination, unpleasant-smelling of work clothes, electrostatic charges, sweat in X-ray clothing during treatments or in the operating room - That's all part of the past!

Rego combines X-ray protection with additional protection against microbes, smelling and anti-static performance, at the same time regulating the body temperature.

In Silver Line Series the outer cover of the apron's inner side is made of a fabric interwoven with pure silver threads.



These silver threads are the reason for the numerous described advantages. They have an antimicrobial effect and thus prevent the growth of bacteria and therefore the unpleasant smells. Furthermore, this fibre is antistatic and thermoregulating. Long standing treatments are not a problem anymore. This fabric keeps you fresh and cool for a long time.

Fibre surface: No nanotechnology or complex chemical formula, just natural silver!

The outside of the outer cover is made of a sturdy, water-repellent material. This product line is completed with trendy, coloured patch pockets and numerous accessories such as thyroid protection and hat. Please contact us for more information!

The product line Silver Line was awarded the Red Dot 2019 as it combines the maximum possible X-ray protection, wearing comfort and a new trendy design based on the guidelines DIN EN 61331-3:2016 and the PSA 2016/425.





## Classic Line – classic, well-trieed, always convenient

As an alternative to our high-quality, modern Silver Line models, REGO offers with the Classic Line advantageous priced, high-quality models for basic applications.

The sturdy, water-repellent and easy-care material of the outer and inner cover simplifies your work and provides maximum protection against the X-Rays through the incorporated lead.

# REGO



# REGO

## X-ray Protection Clothes





## Coat Apron / Front Apron



<b>Fields of application</b>	Gastrointestinal tract, neuroradiology, CT-intervention, urology
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalents</b>	Front protection: Pb 0,25 mm; Pb 0,35 mm; Pb 0,50 mm Back protection: as standard Pb 0,25 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	XS, S, M, L, XL
<b>Customized products</b>	On request
<b>Fastenings</b>	Back straps are overlapping on the back and closed on the sides by two velcro fasteners (with buckle fasteners possible on request)
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	Silver Line: included Classic Line: on request
<b>Embroidery</b>	On request

Perfect fitting and with quick putting on / taking off as well as a minimal weight – Choose the Rego coat apron!

Gastrointestinal tract, neuroradiology, CT-intervention, and urology – these application fields have one similarity: A front covering X-Ray protection is necessary starting from 0,35/0,25 mm Pb (front/back). We recommend our coat apron with velcro fastening on the front and side for perfect fixation of the back wings. This light weighted apron guarantees a perfect fit, easy putting on / taking off.

## Coat Apron / Front Apron



*Our Tip : You can find the article numbers on the attached list of articles.*

## Size Chart

Classic Line / Silver Line Standard Fit		
Coat Apron	Chestwidth	Length *
X-Small	82 - 88 cm	80 cm / 90 cm / 100 cm / 110 cm / 120 cm
Small	88 - 96 cm	90 cm / 100 cm / 110 cm / 120 cm
Medium	96 - 108 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
Large	108 - 124 cm	100 cm / 110 cm / 120 cm / 130 cm
X-Large	124 - 138 cm	100 cm / 110 cm / 120 cm / 130 cm

*\* available in 10 cm intervals within the indicated sizes*

## Coat Apron Kids



*Our Tip : You can find the article numbers on the attached list of articles.*

## Coat Apron Kids

In order to reach maximum protection, our childrens' aprons are produced with protection in the front and back. Our aprons are equipped with a belt, adjustable easily by Velcro, to improve their security and comfort.

We can produce all our models in Classic or Silver Line also in children sizes.

Coat Apron Kids			
Size	Age	Chestwidth	Length
98 - 116 cm	4 - 6	54 - 64 cm	60 cm
116 - 134 cm	6 - 8	62 - 72 cm	70 cm
134 - 152 cm	8 - 11	72 - 78 cm	80 cm



## Wrap Around Apron

Maximum safety and minimum weight,  
all at the same time :

The REGO wrap around apron

You are looking for a one-piece apron with all around X-ray protection?

In this case the completely overlapping REGO wrap around apron is the best choice for you! The maximum front protection from seam to seam is ensured by a completely overlapping front, which is held in place by velcro fasteners. This protects, 60% of the coverage through the front Pb equivalent, in accordance to the Norm DIN EN 61331:3-2016. At the same time the weight of the apron is held at a minimum, as the overlapping layers offer the desired lead equivalent for the front protection in total.

When wearing the stretch-supporting-belt, you obtain a perfect fitting and weight distribution. The additional shoulder pads, integrated as standard, ensure a highly comfortable wearing experience.



<b>Fields of application recommended</b>	Special examinations, such as angiography, DAS, neuroradiology, cardiac catheter, urology
<b>Material</b>	Lead Vinyl, multilayered
<b>Lead equivalents</b>	Front protection: Pb 0,25 mm; Pb 0,35 mm; Pb 0,50 mm Back protection: as standard Pb 0,25 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Adults: XS, S, M, L, XL Kids: 3-5 Age, 6-8 Age, 9-12 Age
<b>Customized products</b>	On request
<b>Fastenings</b>	Four velcro straps vertically spreaded on the frontal overlapping side
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	Silver Line: included Classic Line: on request
<b>Supporting belt, stretch</b>	On request
<b>Embroidery</b>	On request

# Wrap Around Apron



**Silver Line**



**Thyroid Protection  
Sternum**



**Hygiene Case for  
Thyroid Collar**



**Classic Line**

*Our Tip : You can find the article numbers on the attached list of articles.*

## Size Chart



Adults Classic Line Comfort Fit		
Wrap Around Apron	Chestwidth	Length *
X-Small	82 - 88 cm	80 cm / 90 cm / 100 cm / 110 cm / 120 cm
Small	88 - 96 cm	90 cm / 100 cm / 110 cm / 120 cm
Medium	96 - 108 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
Large	108 - 124 cm	100 cm / 110 cm / 120 cm / 130 cm
X-Large	124 - 138 cm	100 cm / 110 cm / 120 cm / 130 cm

*\* available in 10 cm intervals within the indicated sizes*



## Costume Vest / Skirt

Maximum protection, maximum lightness and mobility – a perfect fit for everybody – our two-piece REGO X-Ray protection!

You can choose your fitting size for vest and skirt according to your body dimensions separately! A nearly perfect fit is guaranteed!

The completely overlapped front ensures maximum weight reduction offering best protection at the same time. The required lead equivalent is reached by the full overlapping of the front sides. Please note that, in order to reach the full front protection of 60% of the coverage, a seam-to-seam overlap of the frontal sides must be achieved.

The skirt has a velcro closure on the hip and an additional buckle, while the vest is closed by velcro straps in the front. This model offers the best weight distribution and improved mobility by loading the weight onto the hips.

<b>Fields of application recommended</b>	Special examinations, such as angiography, DAS, neuroradiology, cardiac catheter, urology
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalents</b>	Front protection: Pb 0,25 mm; Pb 0,35 mm; Pb 0,50 mm Back protection: as standard Pb 0,25 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	XS, S, M, L, XL each for vest and skirt
<b>Customized products</b>	On request
<b>Fastenings</b>	Vest: Three velcro straps on the frontal overlapping side, spread on the full length; Additional simple velcro for easy putting on, on one of the shoulders Skirt: Velcro fastener available on full hip size, fixed on the overlapping side – supplementary buckle
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	Silver Line: Inklusive Classic Line: Auf Wunsch erhältlich
<b>Embroidery</b>	On request

## Costume Vest - Skirt / Classic Line



**Classic Line**

*Our Tip : You can find the article numbers on the attached list of articles.*



## Size Chart

Classic Line / Comfort Fit			
Costume / Vest	Chestwidth		Length
X-Small	82 - 88 cm		61 cm
Small	88 - 96 cm		62 cm
Medium	96 - 108 cm		63 cm
Large	108 - 124 cm		64 cm
X-Large	124 - 138 cm		65 cm
Costume / Skirt	Waistwidth	Hipwidth	Length
X-Small	64 - 72 cm	64 - 72 cm	52 cm
Small	72 - 82 cm	72 - 82 cm	55 cm
Medium	82 - 92 cm	82 - 92 cm	58 cm
Large	92 - 104 cm	92 - 104 cm	61 cm
X-Large	104 - 118 cm	104 - 118 cm	64 cm

## Costume Vest - Skirt / Silver Line



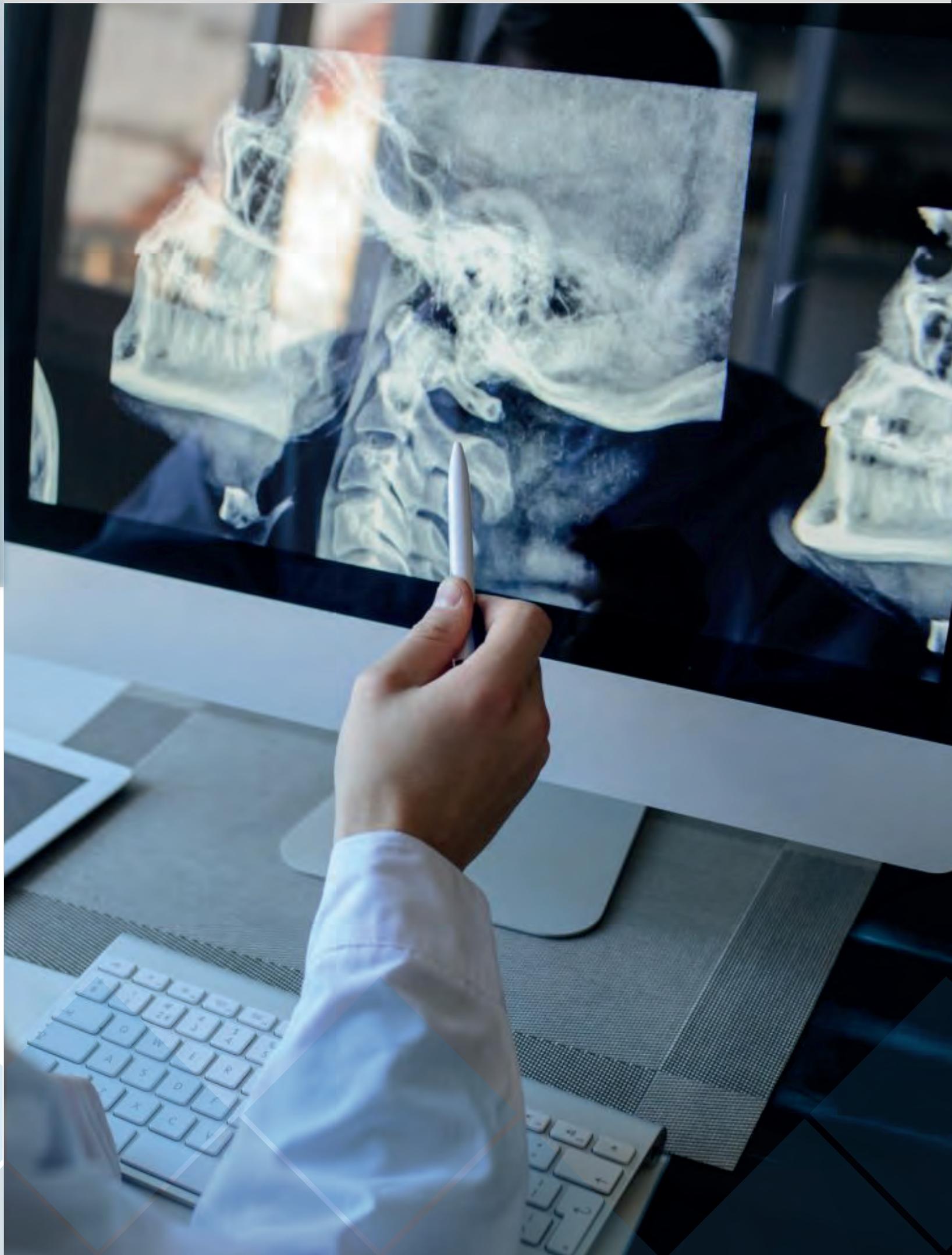
Silver Line

Our Tip : You can find the article numbers on the attached list of articles.

## Size Chart



Classic Line / Silver Line Slim Fit			
Costume / Vest	Chestwidth		Length
X-Small	80 - 84 cm		56 cm
Small	84 - 92 cm		58 cm
Medium	92 - 102 cm		60 cm
Large	102 - 114 cm		62 cm
X-Large	114 - 126 cm		64 cm
Costume / Skirt	Waistwidth	Hipwidth	Length
X-Small	62 - 68 cm	86 - 90 cm	50 cm
Small	68 - 76 cm	90 - 98 cm	53 cm
Medium	76 - 86 cm	98 - 108 cm	56 cm
Large	86 - 98 cm	108 - 120 cm	59 cm
X-Large	98 - 112 cm	120 - 132 cm	62 cm





## Surgeon's Apron

Ideal front protection combined with the most comfortable design and quick putting off: The REGO surgeon's apron!

Through the integrated shoulder pads and the straight designed backside straps, the apron is very comfortable and easy to take on and off. When opening the velcros on the front, the apron - being under the sterile clothing - slips down easily. Thus, unnecessary additional strokes of work are avoided in the operating theatre or in the plaster room. Maximum wearing comfort and X-ray protection is assured!

<b>Fields of application recommended</b>	Operating theater, plaster room
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalents</b>	Front protection: Pb 0,25 mm; Pb 0,35 mm; Pb 0,50 mm Back protection (backside straps): as standard Pb 0,25 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	XS, S, M, L, XL
<b>Customized products</b>	On request
<b>Length</b>	90 cm, 100 cm, 110 cm, 120 cm
<b>Fastenings</b>	Velcro straps to be closed on the front
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	Silver Line: Included Classic Line: On request
<b>Embroidery</b>	On request

# Surgeon`s Apron



**Silver Line**

*Our Tip : You can find the article numbers on the attached list of articles.*



## Size Chart

Classic Line / Silver Line Standard Fit		
Surgeon`s Apron	Width	Length*
X-Small	55 cm	90 cm / 100 cm / 110 cm / 120 cm
Small	60 cm	90 cm / 100 cm / 110 cm / 120 cm
Medium	60 cm	90 cm / 100 cm / 110 cm / 120 cm
Large	70 cm	90 cm / 100 cm / 110 cm / 120 cm
X-Large	80 cm	90 cm / 100 cm / 110 cm / 120 cm

*\* available in 10 cm intervals within the indicated sizes*



## Double Sided Apron

Effective all-around X-Ray protection with closure at the side? Then you should choose the Rego doublesided apron!

This model offers an effective all-around protection too and enables an easy putting on and taking off by a velcro closure on one of the shoulders. This model has another velcro closure placed on the side of the hips / waist connecting the front and backside of the apron. So both sides eventually overlap and an all-around protection guaranteed. For an improved weight distribution we offer our stretch supporting belt.

<b>Fields of application recommended</b>	Special examinations, such as angiography, DAS, neuroradiology, cardiac catheter, urology
<b>Material</b>	Lead Vinyl, multilayered
<b>Lead equivalent</b>	Front protection: Pb 0,25 mm; Pb 0,35 mm; Pb 0,50 mm Back protection: as standard Pb 0,25 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	XS, S, M, L, XL
<b>Length</b>	90 cm, 100 cm, 110 cm, 120 cm
<b>Customized products</b>	On request
<b>Fastening</b>	Simple velcro fastener left and right: Overlapping of the apron's side
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	Silver Line: Included Classic Line: On request
<b>Stretch supporting belt</b>	On request
<b>Embroidery</b>	On request

# Double Sided Apron



**Silver Line**

*Our Tip : You can find the article numbers on the attached list of articles.*

## Size Chart

Classic Line / Silver Line Standard Fit		
Double Sided Apron	Width	Length
X-Small	55 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
Small	60 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
Medium	60 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
Large	70 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm
X-Large	80 cm	90 cm / 100 cm / 110 cm / 120 cm / 130 cm

*\* available in 10 cm intervals within the indicated sizes*





## Dental Aprons for The Patient and Medical Staff

All REGO Dental Aprons, manufactured from durable, lightweight and smooth X-Ray Protection material, are available in two product lines, CLASSIC LINE and SILVER LINE.

CLASSIC LINE is our standard model and suitable for many different tasks. SILVER LINE offers the best possible solution for the everyday use. SILVER LINE impresses with its antibacterial, thermoregulating and anti-odor properties. Additionally, our RED DOT awarded product line offers a most comfortable wearing experience and stylish design. Both models are manufactured according to the DIN EN 61331-3:2016 Certificate and PSA (EU) 2016/425.

You can choose from a colour palette of 8 colours for each model. Colourful or temperate, we have something for any taste: Atlantic blue, Bavarian blue, cherry red, sunset orange, smaragd green, titan silver, deep pink, burgundy red and the pattern for kids "sea animals".

All our thyroid collar models are also separately available in different colours.

### Panoramic Patient Protection + Backside Protection and Panoramic Thyroid Shield

You need a patient protection for panoramic images with the orthopantomograph, in dentistry or for lateral skull radiography? We have the perfect solution for you.

Our easy to handle, two-piece panoramic patient and backside protection is perfect for standing image radiographs. On the front the patient is protected by the apron over the thighs and with the panoramic thyroid protection on the neck. Additionally, the apron covers the spine with a long strip of X-Ray protection material on the backside of the patient, which maximally secures against X-Rays. The apron can be closed by the help of a high-quality Velcro fastener. The specially developed panoramic thyroid shield protects the thyroids against X-Rays and enables optimal and unlimited image recordings. Choose our Panorama patient protection including backside protection and panoramic thyroid protection!

<b>Fields of application recommended</b>	Panoramic images in orthodontics and dentistry in sitting or upright position
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Front protection: Pb 0,35 mm; Pb 0,50 mm Back protection: as standard Pb 0,35 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Small, Large each for children and adults
<b>Customized products</b>	On request
<b>Fastening</b>	Adults: simple velcro on one shoulder Children: velcro in the front, placed vertically at breast height
<b>Shoulder pads</b>	Included
<b>Breast pocket</b>	On request



Classic Line

Our Tip : You can find the article numbers on the attached list of articles.



## Size Chart

Classic Line / Comfort Fit		
Dental Apron Panoramic	Width	Length
Children Small	45 cm	60 cm
Children Large	45 cm	70 cm
Adult Small	60 cm	80 cm
Adult Large	60 cm	90 cm



## Standard Patient Protection + Panoramic Thyroid Shield

Maximum frontal protection – maximum wearing comfort – individual adaptability – an unlimited image recording – our standard patient protection including panoramic thyroid protection guarantees these specialities.

For sitting or lying radiographs we developed our individually adaptable standard patient protection. The two-piece standard patient protection, consisting of an apron and a panoramic thyroid shield, maximally protects the patient from undesired, frontal X-Rays. The velcro over the shoulder blades generates a maximum protection as well as a high wearing comfort. Therefore, the apron can be put on perfectly and quickly. The exclusively developed panoramic thyroid protection is included in the set as well.

<b>Fields of application recommended</b>	Panoramic images in orthodontics and dentistry in sitting or upright position
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Front protection: Pb 0,35 mm; Pb 0,50 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Small, Large each for children and adults
<b>Customized products</b>	On request
<b>Fastening</b>	Simple velcro for the easy putting on and connecting the front protection on the shoulder blades
<b>Shoulder pads</b>	On request
<b>Breast pocket</b>	On request

# Standard Patient Protection + Panoramic Thyroid Shield



**Classic Line**

*Our Tip : You can find the article numbers on the attached list of articles.*



## Size Chart

Classic Line / Silver Line		
Standard Patient Protection	Width	Length
Children Small	45 cm	60 cm
Children Large	45 cm	70 cm
Adult Small	60 cm	80 cm
Adult Large	70 cm	90 cm



## Dental Apron for Patients and Operators + Standard Thyroid Collar

Varied areas of application - for doctors and patients - as well as maximum protection against direct and indirect X-Rays thanks to additional back protection: the REGO dental apron including standard thyroid protection!

You are looking for varied applicable aprons? Our model „dental apron“ is your solution, as it is usable for patients as well as for operators. Additionally, it is independent from whether you need it for panoramic, cephalometric or for sinus radiographies. This model fits for all these applications. The weight reduced dental apron, consisting of two pieces, ensures unlimited frontal protection up until the thighs as well as protection for the shoulder blades. With the side wings it can be closed by high quality Velcro fasteners on the front side. Included in this dental apron set is also a standard thyroid shield, protecting the whole neck.

<b>Fields of application recommended</b>	Orthopantomographics, cephalometry, sinography – suitable for patients or medical personnel in sitting and upright position
<b>Material</b>	Lead Vinyl, multilayered
<b>Lead equivalent</b>	Front protection: Pb 0,35 mm; Pb 0,50 mm Back protection: as standard 0,35 mm Pb
<b>Outer cover</b>	Nylongewebe PU-beschichtet
<b>Sizes</b>	Small, Large each for children and adults
<b>Customized products</b>	On request
<b>Fastening</b>	Velcro crossing at the backside to be closed frontally at the sides
<b>Shoulder pads</b>	On request
<b>Breast pocket</b>	On request

# Dental Apron for Patients and Operators + Standard Thyroid Collar



**Classic Line**

*Our Tip : You can find the article numbers on the attached list of articles.*



## Size Chart

Classic Line / Silver Line		
Dental Apron	Width	Length
Children Small	45 cm	60 cm
Children Large	45 cm	70 cm
Adult Small	60 cm	80 cm
Adult Large	70 cm	90 cm

# Wilhelm Conrad Röntgen



December 1895

"At the beginning I thought it was a new kind of light. Surely it was something new, still unknown." Wilhelm Conrad Röntgen (1845 – 1923)

"To keep it simple, I want to name them 'X-Rays' in order to differentiate them among other kinds of rays." Wilhelm Conrad Röntgen (1845 – 1923)

Wilhelm Conrad Röntgen was a German physicist. He discovered the "X-Rays" in 1895 at the Physics Institute of the University Würzburg. (Which were named after him)

Among other things his discovery revolutionized the medical diagnostics and led to even more revelations of the 20th century, e.g. Discovery and Research of radioactivity.



Wilhelm Conrad Röntgen



*Then*



*Now*



## Dimension Datasheet

### X-Ray Clothes Customized

Perfect fit and a maximum radiation protection!

Please inform us of the following measurements for your desired apron model:

1) Brust / chest :

\_\_\_\_\_ cm

2) Taille / waist :

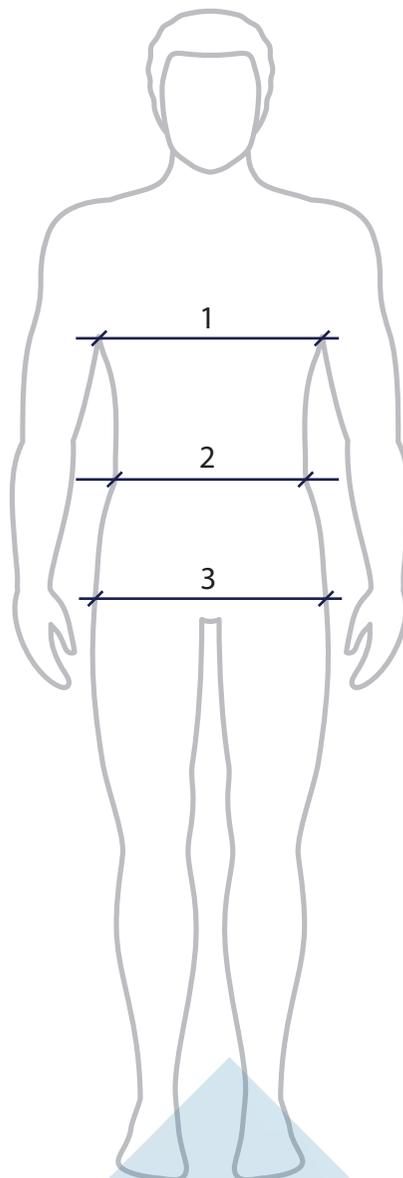
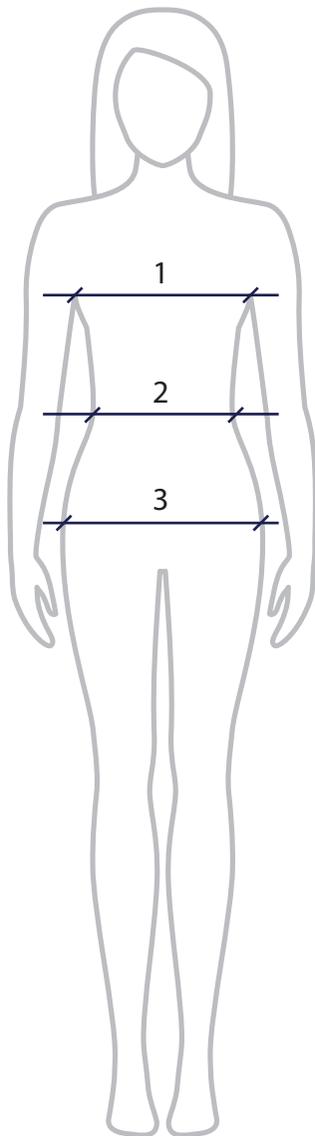
\_\_\_\_\_ cm

3) Hüfte / hip :

\_\_\_\_\_ cm

4) Länge / length :

\_\_\_\_\_ cm



1) Brust / chest :

\_\_\_\_\_ cm

2) Taille / waist :

\_\_\_\_\_ cm

3) Hüfte / hip :

\_\_\_\_\_ cm

4) Länge / length :

\_\_\_\_\_ cm

## REGO Testing and Disposal of X-Ray Protection Aprons

### Testing of Aprons

In addition to the daily optical test of the aprons by checking tears, holes, defective seams and possibly defects of the inner protection material, a periodical touch or x-ray check is necessary (DIN 6857-2), so small damages can be detected. Depending on the age and frequency of use of the X-ray protection apron, a regular and at least annual touch test is recommended according to DIN 6857-2. Noticeable damage such as breaks, kinks, cracks or holes can be hereby detected.

Latest after the third year of use the aprons must be tested by X-Ray. Only this way damages can be recognized and removed. When there was no damage, the next test will have to be done after 2 years, and then every year.

We offer a professional testing service. Send your X-Ray protection clothes to us, we check them and return them to you at once. The service includes the regular sight and functional testing – depending on the age – as well as the testing with X-Rays. The necessary documentation is provided as well.

Please contact us for more information.



### Disposal of Aprons

Once put in the trash, is now a valuable resource for the industry through sustainable recycling. With this motivation we made it our duty, as experienced manufacturer of X-Ray protection apparel, to contribute as much as possible for the proper disposal, in order to reach the goal of a more efficient recycling economy.

We highly value the correct disposal of our products and are also taking care of the professional recycling. X-Ray Protection Apparel has to be disposed as hazardous waste due to its toxicity. Therefore this process is better left to professionals.

We would be very pleased to take over the disposal of your x-ray protection gear.



# TRADITION MEETS INNOVATION



We improved our X-Ray Protection Apparell based on the most recent DIN EN 61331-3:2016 (IEC 61331-3:204), and tailored them according to the need of our customers.

To protect the lateral sides of the body, the apron must cover up 60% of the front from seam to seam. In order to accomplish this a proper weight distribution has to be acknowledged.

According to the norm there is a demand for a certain kind of transparency, regarding the properties of the X-Ray protection material. The basis weight (in relation to the surface) must be mentioned to facilitate the comparison of X-Ray protection clothing for the customer.



# REGO

## X-Ray Protection Accessories



# Half Apron

Fast, secure and simple at the same time? Our half aprons for the genital area with velcro closure or hip clamp grip offer the perfect solution for children and adults!

You are looking for an unisex solution for your patients' gonad protection? A half apron is the best option – available in two sizes for children and two sizes for adults, with velcro closure or hip clamp grip. Choose your suitable and most favorable design and perfectly protect your patients against direct X-Rays in a fast and simple way for the use in e.g. thoracic or abdominal examinations. Also available as a set of four.

For the perfect storage of the half aprons with hip clamp grip, we offer our wall rack for half aprons, where up to four aprons can be hung up. Simple and quick putting on and off eases the progress of work prolongs the durability of the half aprons by a proper storage at the same time.

<b>Fields of application recommended</b>	Examination of thorax and upper abdomen
<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Front protection: Pb 0,50 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Adults: A1 (Small), A2 (Large) Children: C1 (Small), C2 (Large)
<b>Set</b>	Consisting of C1, C2, A1, A2
<b>Fastening</b>	Choose: velcro or hip clamp grip

## Size Chart

Half Apron	Size L x W
Children C1	20 x 25 cm
Children C2	30 x 30 cm
Adult A1	37 x 40 cm
Adult A2	40 x 45 cm



with hip clamp grip



## Ovary Protection

You have the choice: Do you prefer a direct or an indirect ovary protection? For female patients both options are allowed according to DIN EN 61331-3:2016.

Perfect size adjustment, fast fixation onto the belt of the desired ovary protection pad and putting on via velcro. While being maximally protected with the direct ovary protection, you receive the optimal X-Ray pictures. All offered by our REGO direct ovary protection.

Our indirect ovary protection can be applied for X-Rays in horizontal as well as upright positions without having to be put on directly, to enable fast and unproblematic examinations. The frame is fixed onto a rail of the diaphragm and enables the proper and precise insert via magnets. When having X-Ray images, the desired shadow is casted onto the uterus. Thus, an X-Ray protection of Pb 2,0 mm is reached. You receive the frame in a set with 5 different sized, interchangeable inserts.

<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Direct ovary protection: Pb 1,0 mm Indirect ovary protection: Pb 2,0 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Direct ovary protection: Small, Medium, Large Indirect ovary protection: 5 inserts with increasing sizes
<b>Set</b>	Direct ovary protection: consisting of small, medium, large size and one belt Indirect ovary protection: one frame (170 x 170 mm/ 176 x 176 mm) with five inserts with increasing sizes
<b>Fastening</b>	Direct ovary protection: velcro fastener



## Breast Shield

The front protection of female patients also includes the covering of the mammary glands.

This product is featured mainly in screenings of the spine. The leadfree part on the back of the neck enables the screening of the whole spine in order to reach maximum efficiency for Scoliosis examinations. The protection of the mammary glands offers the best protection with Pb 5,0 mm and is adjustable in length thanks to its velcro fastener.

<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Pb 0,50 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Standard
<b>Fastening</b>	Velcro fastener



# T-Shield / Testes Protection

We offer an all-around protection of the male gonads under full hygienic conditions and a fast application: Choose between the flexible T-shield protection or the Testes protection - a hard capsule with spring lock.

Having a special coating, the patients are protected from skin irritations using any of the two options. The perfect hygiene is ensured when using our hygienic bags for Testes and T-shield protection. A Pb Value of 1,0 mm is reached by both options. Perfect protection for every man!

The important questions are: Are you looking for a flexible gonad protection with velcro or a hard lead vinyl capsule based on natural rubber? The T-shield gonad protection made of multilayered lead vinyl is available in a set or individually in three sizes and is closed into a capsule using Velcro straps. The shield can easily be cleaned and disinfected when opened. On the contrary the hard capsule is available in two sizes which are equipped with a spring lock. A quick and easy putting on by the patient is guaranteed.



<b>Material</b>	T-Shield Gonadprotection: Lead vinyl, multilayered Testes protection: Lead vinyl, single-layered, form natural rubber
<b>Lead equivalent</b>	All-around protection: Pb 1,0 mm
<b>Outer cover</b>	T-Shield gonad protection: Nylon coated with PU
<b>Sizes / Colours</b>	T-Shield gonad protection: Small (up to 9 years, red), Medium (up to 14 years, green), Large (older than 15 years, blue) Testes protection, white: Adults: 135 x 105 x 60 mm Boys: 103 x 85 x 55 mm
<b>Set</b>	T-Shield gonad protection: Small, Medium, Large
<b>Fastening</b>	T-Shield gonad protection: velcro fastener Testes protection: spring lock etui



# Ovary and Gonad Protection for Babies and Infants – Daphne / Apollo

No slipping out of place of the protection shield, full radiograph, easy putting on, maximum safety, perfect hygiene and improved cleaning of the lead inlay or replacement by a new one? All these factors are offered by our new ovary and gonad protection for babies and infants! These combine X-ray protection with sustainability!

The challenge in working with babies and infants is that they can't stand still like adults do. With our protection designed especially for babies and infants, their protection shield will not slip away, and a full radiograph can be taken easily!

The ovary protection as well as the gonad protection are equipped with a belt and can be adjusted to the body width of the child. In the same way as the gonad protection for boys and men, the one for babies can also be formed to a capsule by velcro and used with our hygienic bags. The specialty is: You would like to wash the outside material? Not a problem! Take out the lead inlay. Hygiene and sustainability are combined in our product. Damaged lead or outside material can be replaced separately.

Don't miss it and make your everyday work easier! But don't forget: Radiation protection is only guaranteed with a lead insert!



**Apollo Gonad Protection**



**Daphne Ovary Protection**

<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Pb 1,0 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes / Colours</b>	Girls Small: cherry red (0-2 years) Girls Large: pink (3-6 years) Boys Small: bavarian blue (0-2 years) Boys Large: atlantic blue (3-6 years)
<b>Set</b>	One outside cover and one lead inlay
<b>Fastening</b>	Velcro fastener at the capsule of the gonad protection as well as on the belt of ovary and gonad protection
<b>Features</b>	The lead can be taken off the outside cover Outside cover can be washed Lead and outer cover can be ordered separately





## Shin Protection, flexible

The exposure to radiation below the operation table can be quite high in certain situations.

Therefore, we are offering additional protection for your shins. These protectors are shielding you from scattering radiation below the operating table.

The REGO shin protection is produced upon request and is equipped with a velcro fastener to suit every size.

<b>Material</b>	Lead rubber, multilayered
<b>Lead equivalent</b>	All around protection: Pb 0,50 mm
<b>Outer cover</b>	Nylon coated with PU
<b>Sizes</b>	Standard 51,5 cm x 35 cm
<b>Set</b>	One Pair
<b>Customized Product</b>	On request
<b>Fastening</b>	Velcro fastening

*Available both in Classic Line and Silver Line*



# Thyroid Protection

Are you looking for a thyroid protection for patients and medical personnel? Choose one of our three different options of thyroid protection:

All-around protection against X-rays, available in two sizes: **REGO** Standard thyroid protection

Optimized movability in the operation area or during long-lasting examinations, an all-around protection in standard size: **REGO** Sternum protection

Maximum thyroid protection for panoramic radiographs with optimized and limitless X-Ray imaging capability by sparing the lead inlay in the wings on the neck – **REGO** Panoramic thyroid protection

We offer suitable hygienic cases for any of our thyroid protection shields. Use them for perfect and highest possible hygiene!



Magnetic Lock

Velcro Fastening

<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Pb 0,50 mm
<b>Outer cover</b>	Nylon, coated with PU
<b>Sizes</b>	Standard: Small, Large Sternum: Standard size Panorama: Small, Large
<b>Fastening</b>	Simple velcro or magnetic lock in neck strap
<b>Hygienic case</b>	On request



Hygienic Case



Classic Line

Silver Line

Sternum Protection



Panorama Thyroid Protection



Classic Line

Silver Line

Standard Thyroid Protection

## X-Ray Protection Cap

You want to be protected from X-Rays all around? Then the X-Ray protection cap should not be missing. Scattered radiation is repelled in the skull area, closed by a ribbon on the back.



<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Available in: Pb 0,35 mm; Pb 0,50 mm
<b>Outer cover</b>	Nylon, coated with PU
<b>Sizes</b>	Small, Large
<b>Fastening</b>	Ribbon to be closed on the back

## Treatment Table Mat for Bucky Table

Rego offers you a sturdy, wear-resistant, water-repelling, X-Ray-permiable treatment table mat for your Bucky table. The special developed protection coating of this mat enables an easy and perfect cleaning process: Even difficult, persistent stains can be fully removed with Isopropyl alcohol.

The mat consists of a PUR foam core with an outside cover of high-quality synthetic leather. The mat will serve you long and well, having a trusted protection coating with an extraordinary resistance to dirt, abrasion and germs.



<b>Material</b>	PUR foam core
<b>Outer cover/Colours</b>	Synthetic leather, blue; other colours on request
<b>Sizes</b>	550 x 2000 x 10 mm, 550 x 2000 x 20 mm, 550 x 2000 x 30 mm; Special sizes on request



## Patient Protection Cover

A maximum protection for lying patients, an easy and uncomplicated handling, available in different sizes and Pb values. Use this versatile X-Ray protection! Special sizes, special Pb values or designs available on request.

<b>Material</b>	Lead vinyl, multilayered
<b>Lead equivalent</b>	Available in: Pb 0,50 mm; Pb 1,0 mm
<b>Outer cover</b>	Nylon, coated with PU
<b>Sizes</b>	60 x 60 cm, 60 x 90 cm, 120 x 60 cm
<b>Customized product</b>	On request



## CT-Shields

The Federal Office for X-Ray protection ascertains the number of X-Ray examinations every year. Whereas the frequency of X-Ray examinations decreased in the past decades, the number of effective and intensive CTs has raised by more than 50%. Highest local radiation dose is applied for cerebral emergency, when a cranial CT (CCT) is necessary. The eye lenses are most sensitive to radiation which might lead to radiation cataracts. Thus, a protection of the eyes but also of the thyroid gland is highly recommended by using protective shields.

### CT-Eye Shield

Protection against X-Rays for eyes: Flexible, universally fitting design, hypoallergenic fixation strip to maintain shield in place – choose our CT-Eye shields for your patients' CCT examinations!

The shields ensure reduction of radiation exposure by up to 40% for all CCTs through their lead equivalent of 0,07 mm Pb. A fast and easy fixation is guaranteed by a hypoallergenic adhesive strip, which holds the shield perfectly in place and ensures a uncomplicated, fast and safe screening.

Our single use-shields are available in a 10-piece or in an economic 50-piece packaging to equip you perfectly for the everyday use.



Pack/10 pcs Art.-No.: 414001  
Pack/50 pcs Art.-No.: 414002

<b>Material</b>	Vinyl with barium sulfate
<b>Lead equivalent</b>	Pb 0,07 mm
<b>Outer cover</b>	2 layers: Vinyl and foam
<b>Specialty</b>	Single use
<b>Set</b>	Package of 10 pieces or of 50 pieces

### CT-Thyroid Shield

Protection against X-Rays for thyroids: Lightweight, flexible and versatily applicable protector, which, fitted to the thyroid's size, offers a reduction of radiation exposure by up to 60% for all CT examinations through the incorporated 0,125 mm Pb! Available as single use-shields in a 10-piece or in an economic 50-piece packaging. Use the advantage of the well-shaped fit for easy positioning and indirect fixation on the thyroid gland for well done, easy and gentle X-Ray screenings.



Pack/10 pcs Art.-No.: 414003  
Pack/50 pcs Art.-No.: 414004

<b>Material</b>	Vinyl with barium sulfate
<b>Lead equivalent</b>	Pb 0,125 mm
<b>Outer cover</b>	Vinyl
<b>Specialty</b>	Single use
<b>Set</b>	Package of 10 pieces or of 50 pieces

## X-Ray Protection Goggles

Are you looking for an eye protection against X-Rays? You can find your suitable REGO Goggles for any special wishes and specifications. We offer the following models:



**X-Ray Protection Goggles „Panorama“**  
Art.-No.: 424001

<b>Material</b>	Lead glass
<b>Lead equivalent</b>	Pb 0,80 mm (+/- Pb 0,05 mm)
<b>Outer cover/Colour</b>	High quality acetate, brown
<b>Weight</b>	83 g
<b>Specialty</b>	Available with or without correction, Correction +4,0 up to -7,0 diopters are possible
<b>Set</b>	1 x goggles Panorama, 1 x case for goggles, 1 x cord, 1 x REGO-spectacles cloth

## Model „Panorama“

Highest flexibility possible, maximum peripheral field of view, side protection through lateral glass, shatterproof and spring-suspended hinges with silicone spectacle bridge: Use the highest possible comfort with the included spectacle chord, an even weight distribution and the best protection from X-Rays at your workplace.

Do you wear glasses? A correction of the lenses from +4,0 up to -7,0 Dioptres is possible. Please contact us in this respect with your required correction data.



## Model „Ultra-light“

You need safe eye protection, that is lightweight and simultaneously stylish? Manufactured of lightweight nylon, it offers highest comfort and protection while wearing the goggles through its safe and near-to-face shape fit (incl. chord) and Pb 0,75 mm (Pb +/- 0,05 mm) for your eyes. For spectacle wearers this model can also be supplied with correction glasses from +3,0 up to -3,0 dioptries. Isn't this model the perfect goggle for long-lasting examinations and treatments?



<b>Material</b>	Lead glass
<b>Lead equivalent</b>	Pb 0,75 mm (+/- Pb 0,05 mm)
<b>Outer cover/Colour</b>	Durable Nylon / black / silver
<b>Weight</b>	64 g
<b>Specialty</b>	Available with or without correction, Correction +3,0 up to -3,0 diopters are possible
<b>Set</b>	1 x goggles Ultralight, 1 x case for goggles, 1 x cord, 1 x REGO-spectacles cloth

**X-Ray Protection Goggles „Ultra light“**  
Art.-No.: 424106



## Model „Fitover“

You are wearer of glasses and you would like an all-purpose spectacle for colleagues with and without glasses? For this situation we offer the model Fitover with additional side protection. The Fitover goggles are worn over the own correction glasses and offer a maximum all-around X-Ray protection, splash guard for X-ray treatments and a periphery sight for the operations.



<b>Material</b>	Lead glass
<b>Lead equivalent</b>	Pb 0,75 mm (+/- Pb 0,05 mm)
<b>Outer cover/Colour</b>	Durable Nylon / black matte
<b>Weight</b>	115 g
<b>Specialty</b>	To be worn over the correction glasses, this spectacle cannot be supplied with correction itself
<b>Set</b>	To be worn over the correction glasses, this spectacle cannot be supplied with correction itself

**X-Ray Protection Goggles „Fitover“**  
Art.-No.: 424107



## X-Ray Protection Gloves for Surgeons

Are you looking for sterile, latex-free, elastic and smooth one-way gloves? Please choose the REGO-X-Ray-protective gloves for surgeons.

7 different sizes (from size 6 up to 9), 3 different protection grades, a high skin tolerance and X-Ray protection:



<b>Material</b>	Rubber/Gum with integrated lead
<b>Schutzgrade</b>	Light Pb 0,07 mm, Medium Pb 0,09 mm, Heavy Pb 0,12 mm
<b>Outer cover/Colour</b>	Durable Nylon / brown
<b>Size</b>	6; 6,5; 7; 7,5; 8; 8,5; 9
<b>Specialty</b>	Sterile one way gloves
<b>Set</b>	Can be ordered in 5 pairs-packages (5 pairs per size)

	60 kV	80 kV	100 kV
<b>Light</b>	40% (+/- 5%)	35% (+/- 5%)	30% (+/- 5%)
<b>Medium</b>	68% (+/- 5%)	61% (+/- 5%)	54% (+/- 5%)
<b>Heavy</b>	75% (+/- 5%)	69% (+/- 5%)	63% (+/- 5%)

Comparison Protection Degree / kV



## X-Ray Surgeon's Gloves with Opening on the Palm

You need X-Ray protection and the sensitivity of your fingers at the same time? For injecting, palpating examinations of the body, in the operating room or even as vet: The Surgeon's Glove with opening on the palm and included thumb protection is available in 3 different Pb-Values and enables the highest possible flexibility and the desired X-Ray protection.

<b>Material</b>	Lead vinyl
<b>Lead equivalent</b>	Available in: Pb 0,25 mm, Pb 0,35 mm, Pb 0,50 mm
<b>Outer cover/Colour</b>	Nylon fabric with PU-Coating, bavarian blue
<b>Size</b>	Standard
<b>Specialty</b>	Opening on the palm side, with extra thumb protection



## X-Ray Protection Gloves with Imitation Leather Cover

The foam-padded lead gloves offer a maximum X-Ray protection for up to 100 kVp. Having a high flexibility and strong protection against X-Rays they are easy to clean as they have a smooth surface. For disinfection you can use a hygienic cloth – your protection and that of your patients is assured. You profit from this advantage and your everyday life is facilitated by having these reusable, maximally protecting X-Ray protection gloves.

For the perfect storage and quick putting on and off we recommend the REGO glove racks, available as single wall racks, or in combination with an apron as well as integrated in a rack mobile. Please ask for more information!

<b>Material</b>	Lead vinyl
<b>Lead equivalent</b>	Pb 0,50 mm
<b>Outer cover/Colour</b>	Imitation leather, foam-padded, dark blue, and - for larger orders - on request in bordeaux
<b>Size</b>	Standard
<b>Specialty</b>	Seamless



## Storage Systems for X-Ray Protection Aprons

How are your facility in the means of storage? Are there free, loadable walls available or is there rather a bit of free space at a corner? We offer various rack systems of stainless steel, which will suit your demands. Choose among the wall racks for aprons, half aprons and gloves or racks mobile. When ordering a wall rack please observe the allowable load of up to 10 kg per apron.

### Wall Racks

Swiveling, tilting or folding; different models for 1, 2, 3, 5 or 10 aprons; for regular aprons, half aprons, dental, surgeon's aprons or costumes (vest-skirt combination): We have plenty to choose from depending on your demand and space. Do you need additional storage for your gloves? There are specially designed racks for up to 3 pairs of gloves or mounted version for existing wall racks.



**Wall Rack folding upwards**  
Art.- No.: 400002

<b>Material</b>	Stainless steel
<b>Specialties</b>	To be folded upwards
<b>Designs</b>	For 1 coat apron For 1 coat apron and 1 pair of X-Ray protection gloves



**Wall Rack for 1 Apron**  
Art. - No.: 400006



**Wall Rack for 2 Aprons**  
Art. - No.: 400025



**Wall Rack for 3 Aprons**  
Art. - No.: 400105



**Wall Rack for 10 Aprons**  
Art. - No.: 400106

<b>Material</b>	Stainless steel
<b>Specialties</b>	Swivelling 180°
<b>Designs</b>	For 1 X-Ray protection apron For 2 X-Ray protection aprons For 3 X-Ray protection aprons For 10 X-ray protection aprons (5 swivelling to left and 5 to right side)



**Wall Rack for 5 Aprons  
(one way swivel)**  
Art.- No.: 400004 to the left,  
Art.- No.: 400104 o the right

<b>Material</b>	Stainless steel
<b>Specialties</b>	Swivelling to one side
<b>Specialties</b>	For 5 X-Ray protection aprons (swivelling to right side) For 5 X-Ray protection aprons (swivelling to left side)



**Wall Rack for 4 Half Aprons  
with hip clamp grip**  
Art.- No.: 400003

<b>Material</b>	Stainless steel
<b>Specialties</b>	Fix, not movable
<b>Designs</b>	For 4 half aprons with hip clamp grip For 1 dental / surgeon's / half apron or patient's cover For 1 pair of X-Ray protection gloves For 2 pairs of X-Ray protection gloves For 3 pairs of X-Ray protection gloves



**Wall Rack for 1 Dental / Surgeon's  
/ Half Apron or Patient's Cover**  
Art.- No.: 400007



**Wall Rack for 1 pair of X-Ray  
Protection Gloves**  
Art.- No.: 400008



**Wall Rack for 2 pairs of X-Ray  
Protection Gloves**  
Art.- No.: 400009



**Wall Rack for 3 pairs of X-Ray  
Protection Gloves**  
Art.- No.: 400010

## Mobile Racks

A high mobility, secure stand for storing a huge variety of aprons: Choose our mobile racks made of stainless steel for five, six or ten aprons or costumes. On request you can have additional holders for gloves mounted on the top.



**Hanger wooden**  
Art.- No.: 400015



**Hanger stainless steel**  
Art.- No.: 400016



**Skirt Hooks**  
Art.-No.: 40001



**Hanger for 5 X-Ray Protection Aprons**  
Art.-No.: 400011



**Hanger for 10 Costumes Vest/Skirt**  
Art.- No.: 400018

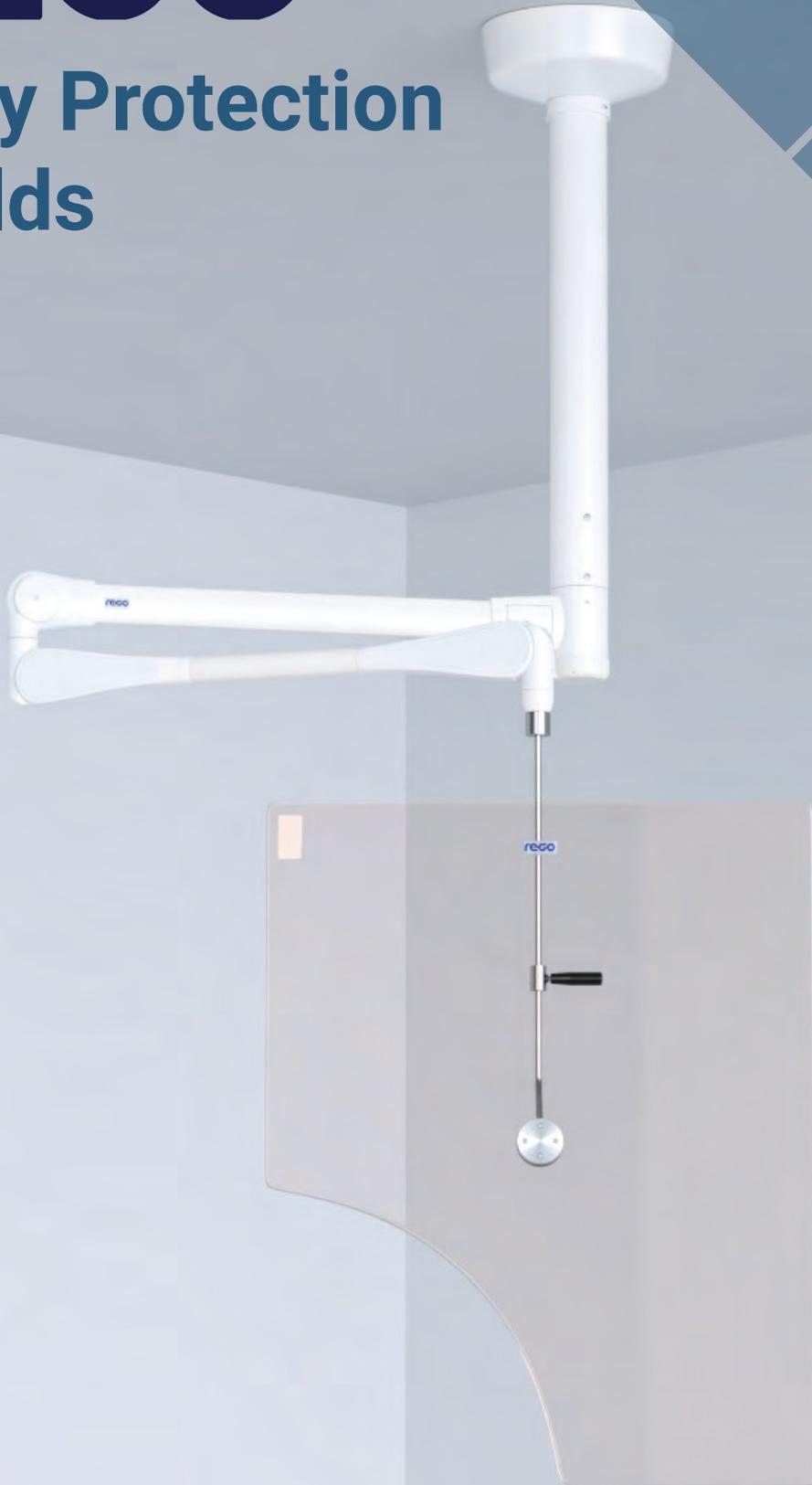
<b>Material</b>	Stainless steel
<b>Specialty</b>	Mobile
<b>Designs</b>	<ul style="list-style-type: none"> <li>For 5 X-Ray protection aprons*</li> <li>For 5 X-Ray protection aprons and 2 pairs of gloves*</li> <li>For 6 X-Ray protection aprons*</li> <li>For 10 X-Ray protection aprons*</li> <li>For 10 x-Ray protection aprons and 3 pairs of gloves*</li> <li>For 10 costumes vest/skirt</li> </ul>

\* For hanging up skirts on the standard racks we offer hooks



# REGO

## X-Ray Protection Shields



## Ceiling Mounted Protection Shield

**Optimize your working place with the REGO ceiling mounted protection shield.**

The medical personnel is facing a problem regarding the high radiation exposure due to long radioscopies and frequent examinations in the interventional radiology. The front of the body is protected while using an X-ray protection apron, however the head, arms and hands are exposed to high radiation.

The well-known ALARA\* principle - a basic X-ray protection guideline – requests an as low as possible radiation exposure – even deceeding the limit - achievable by reasonable means for persons who are subject to ionizing radiation at their workplace. The combination of our products „REGO ceiling mounted protection shield“ and „REGO lower body protection“ enables you to protect yourself in the best possible way at your workplace, while wearing X-ray protection aprons with low lead equivalent.

The ceiling mounted protection shield consists of the central axis, extension arm and retaining rod.

\*ALARA: “As Low As Reasonably Achievable”



### Description of single parts

<b>Simple central axis</b>	Description: stable metal construction for fixation on the raw ceiling (cement) for bridging the suspended ceiling Length: 37-144cm Bearing capacity: 30 kg With dome cover Optional 2-way, 3-way and 4-way arm possible
<b>Extension arm</b>	Range/Length: 60 cm, 75 cm, 85 cm or 95 cm Rotation: by 360° around the central axis Mounting: Linking to spring arm
<b>Spring arm</b>	Length: 90 cm Bearing capacity: up to 21 kg Rotation: iadjustable in the vertical direction in intervals every 15° from -45° to +45° Mounting: Linking to retaining rod internal and adjustable Spring allows shield to balance and stay in desired position
<b>Retaining rod</b>	Length: 60 cm or 80 cm Vertical rotation : by 360°, inclination of shield by about -5° bis +45° Mounting: Coupling to protective shield by a ball joint Including black thermoplastic handle to guide the holder arm
<b>Protection shield</b>	Dimensions: Lead Acrylic panel 77 x 62 x 1,2 cm Lead equivalent: Pb 0,50 mm Rotation: vertically by 360° around the suspension Customized product: different sizes or cuttings on request

## Mobile X-Ray Protection Wall

A maximum X-Ray protection and mobility with a view– the REGO X-Ray protection wall!

You need a mobile, complete and strong X-Ray protection for the medical personnel? We offer mobile one-fold or three-fold X-Ray protection walls. You choose the lead equivalent and, if necessary, the size of the lead glass window.

### X-Ray protection wall one-fold:

<b>Material</b>	Chipboard with incorporated lead plate
<b>Lead equivalent</b>	X-Ray protection wall: on choice: Pb 1,0 mm, Pb 2,0 mm X-Ray protection window: Pb 2,0 mm
<b>Outer cover / Colour</b>	Frame Aluminium profile, based on chassis made of Aluminium cast on flexible and lockable double wheels, white
<b>Dimension</b>	X-Ray protection wall: 100 x 195 cm (W x H) X-Ray protection window: 30 x 40 cm, 40 x 50 cm, 70 x 80 cm (W x H)
<b>Weight</b>	Pb 1,0 mm: app. 77 kg Pb 2,0 mm: app. 103 kg
<b>Customized products</b>	On request

### X-Ray protection wall three-fold:

<b>Material</b>	Chipboard with incorporated lead plate
<b>Lead equivalent</b>	X-Ray protection wall: on choice: Pb 1,0 mm, Pb 2,0 mm X-Ray protection window on request: Pb 2,0 mm
<b>Outer cover / Colour</b>	Frame Aluminium profile, based on chassis made of Aluminium cast on flexible and lockable double wheels, white
<b>Dimension</b>	Wall's middle part: 100 x 195 cm, Side parts: 50 x 195 cm (W x H) Window on request: 30 x 40 cm, 40 x 50 cm, 70 x 80 cm (W x H)
<b>Weight</b>	Pb 1,0 mm: app. 155 kg Pb 2,0 mm: app. 205 kg
<b>Customized products</b>	On request



Protection Wall one-fold

Our Tip : You can find the article numbers on the attached list of articles



Protection Wall three-folds

## Lower Body Shield

Our lower body X-Ray protection mounted on the operating table offers an extensive protection for doctors and medical personnel while operating. The flexible and lead material, is available in a value of Pb 0,50 mm. The metal parts are non-ferromagnetic due to their properties acquired by eloxation. The lower body protection curtains can be mounted on both sides of the operating table upon request, enabling very easy positioning by adjusting the rails. This enables the user to achieve maximum protection and comfort.

<b>Material</b>	Lead vinyl / Metal Parts from eloxated aluminium
<b>Lead equivalent</b>	Pb 0,50 mm; on request Pb 1,00 mm
<b>Colour</b>	Grey
<b>Size</b>	Length: 110 cm, Height: 76 cm
<b>Weight</b>	Metal part: app. 4 kg Lead part: Pb 0,50 mm: app. 7,4 kg
<b>Customized products</b>	On request
<b>Connection system</b>	T-Nut rail system, for rails with 25 x 10 mm



# REGO

## Radiography: X-Ray Accessories



# X-ray Viewing Boxes

We offer a wide variety of X-Ray viewers for your everyday use! Wall mounted or desk model, with or without dimming possibility, a flat viewing box or one with electronic ballast, for operating or treatment rooms – also for mammography or dentists – Choose the suitable one for you!

## 1.LED Viewing Boxes

The LED viewers type is available in four sizes. Being ultra slim they are the most modern design with a stepless dimmer. The long life 50.000 hours technology and the luminance of 6.000 cd/m<sup>2</sup> will get you in your radiologic daily routine what you need.



2 Viewing Areas Art.- No.: 643041



3 Viewing Areas Art.- No.: 643042

<b>Material</b>	Stainless steel housing, front panel plexiglass
<b>Lamps</b>	LED, 6.000 cd/m <sup>2</sup> (=19.000,00 Lux)
<b>Colour</b>	White RAL 9016
<b>Housing Dimensions</b>	LED 36: 43 x 52 x 35 cm LED 72: 79,5 x 52 x 35 cm LED 108: 116 x 52 x 35 cm LED 144: 152 x 52 x 35 cm
<b>Viewing Area (W x H x D)</b>	LED 36: 36 x 43 x 3,5 cm (65 W, 1 viewing area) LED 72: 72 x 43 x 3,5 cm (125 W, 2 viewing areas) LED 108: 108 x 43 x 3,5 cm (180 W, 3 viewing areas) LED 144: 144 x 43 x 3,5 cm (250 W, 4 viewing areas)
<b>Weight</b>	LED 36: 4,5 kg LED 72: 8 kg LED 108: 12 kg LED 144: 16 kg
<b>Specialties</b>	Dimmer included On choice: wall mounted or desk model



4 Viewing Areas Art.- No.: 643043

# X-ray Viewing Boxes

## 2. X-Ray Viewing Boxes with Electronic Ballast

For an improved light quality, saving of energy and longer life of lamps we offer the REGO X-Ray viewers type R / HF and JHF.: Easy for the eyes – high in contrast - energy-efficient!

Different models – different functions:

**R-Model:** Economic, simple, flicker free X-Ray viewer. You can order this model in different sizes as a basic version of our viewers with electronic ballast, separate panels and excellent lighting quality.

**HF-Model:** In addition to the electronic ballast and the separate panels you get the ability to steplessly dim the light from 10-100%.

Viewing Box Model R

<b>Material</b>	Metal housing
<b>Lamps</b>	Fluorescent tubes (per panel 4 pcs. each with 15W) 4.200 cd/m <sup>2</sup> (+/- 25%)
<b>Colour</b>	White, powder coated
<b>Outer Dimensions</b>	R 35 1p+: 38 x 51 x 9,2 cm R 70 2p+: 74 x 51 x 9,2 cm R 105 3p+: 110 x 51 x 9,2 cm R 140 4p+: 146 x 51 x 9,2 cm R 2 x 120 6p+: 111 x 96 x 9,2 cm
<b>Viewing Area (W x H)</b>	R 35 1p+: 35 x 43 cm (1 viewing area) R 70 2p+: 70 x 43 cm (2 viewing areas) R 105 3p+: 105 x 43 cm (3 viewing areas) R140 4p+: 140 x 43 cm (4 viewing areas) R 2 x 120 6p+: 2 x 120 x 43 cm (2 rows each 3 viewing areas)
<b>Weight</b>	R 35 1p+: 6kg R 70 2p+: 11 kg R 105 3p+: 16,4 kg R140 4p+: 21,5 kg R 2 x 120 6p+: 32 kg
<b>Specialities</b>	Electronic ballast included Separate panels integrated Improved illumination

Viewing Box Model HF

<b>Material</b>	Metal housing
<b>Lamps</b>	Fluorescent tubes (per panel 4 pcs. each with 15 W)
<b>Colour</b>	White, powder coated
<b>Outer Dimensions</b>	HF 35: 38 x 51 x 9,2 cm HF 70: 74 x 51 x 9,2 cm HF 2 x 120: 111 x 96 x 9,2 cm
<b>Viewing Area (W x H)</b>	HF 35: 35 x 43 cm (1 viewing area, 3 x 15W) HF 70: 70 x 43 cm (2 viewing areas, 6 x 15 W) HF 2 x 120: 2 x 120 x 43 cm (2 rows each 3 viewing areas)
<b>Weight</b>	HF 35: 6kg HF 70: 11 kg HF 2 x 120: 32 kg
<b>Specialities</b>	Electronic ballast included Separate panels integrated Improved illumination Stepless, electronic dimmer included (10-100%)



**R 35 1p+, 1 Viewing Area**  
Art.-No.: 643221



**HF 35, 1 Viewing Area**  
Art.-No.: 643216



**HF 70, 2 Viewing Areas**  
Art.-No.: 643217



**R 140 4p+, 4 Viewing Areas**  
Art.-No.: 643225

## X-ray Viewing Boxes

**JHF-model for Diagnosis:** Choose this model if you don't require separate panels but you need a stepless electronic dimmer from 10-100% with additional shutters which help to divide the viewing area according to your requirements



**JHF 80+, 4 Lamps à 30W**  
Art.-No.: 643132



**JHF 105+, 4 Lamps à 36W**  
Art.-No.: 643133

### Viewing Box Model JHF

<b>Material</b>	Metal housing
<b>Leuchtmittel</b>	Fluorescent tubes, >4.500 cd/m <sup>2</sup>
<b>Farbe</b>	White powder coated
<b>Outer Dimensions</b>	JJHF 40+: 72 x 69 x 12 cm JHF 105+: 138 x 69 x 12 cm JHF 140+: 174 x 69 x 12 cm
<b>Viewing Area (W x H)</b>	JHF 40+: 40 x 43 cm (1 panel, 4 lamps à 15W) JHF 105+: 105 x 43 cm (1 panel, 4 lamps à 36W) JHF 140+: 140 x 43 cm (1 panel, 4 lamps à 58W)
<b>Weight</b>	JHF 40+: 23 kg JHF 105+: 49 kg JHF 140+: 57 kg
<b>Specialities</b>	Electronic ballast included Improved illumination Stepless, electronic dimmer included (10-100%) 2 shutters included



**MJHF 96x60+, 10 Tubes à 36W**  
Art.-No.: 643137



**MJHF 2x96x30+, 10 Tubes à 36W**  
Art.-No.: 643138

## X-ray Viewing Boxes

### 3. Mammographic X-Ray Viewer

For mammographic examinations we offer special viewing boxes. In addition to the already included stepless electronic dimmer from 10-100%, they offer a substantially stronger, flicker free illumination. Besides there are included shutters for an adaption of the viewing area used.

<b>Material</b>	Metal housing
<b>Leuchtmittel</b>	Fluorescent tubes (10 pcs à 36W), > 7.000 cd/m <sup>2</sup>
<b>Farbe</b>	White, powder coated
<b>Rahmenmaße</b>	MJHF 96 x 60+: 124 x 94 x 12 cm MJHF 2 x 96 x 30+: 124 x 94 x 12 cm
<b>Bildschirmmaße (B x H)</b>	MJHF 96 x 60+: 96 x 60 cm MJHF 2 x 96 x 30+: 2 x 96 x 30 cm
<b>Gewicht</b>	MJHF 96 x 60+: 59 kg MJHF 2 x 96 x 30+: 57 kg
<b>Besonderheiten</b>	Electronic ballast included Improved illumination Stepless, electronic dimmer included (10-100%) 4 shutters included MJHF 2 x 96 x 30: with variable centred holder

### 4. Dental X-Ray Viewer

Well designed for the use in panoramic radiographs. The viewer can be used as desk model or as wall mounted model.

<b>Material</b>	Plastic housing with aluminium back
<b>Lamps</b>	2 fluorescent tubes
<b>Colour</b>	White
<b>Outer dimensions</b>	36 x 17 x 6,5 cm
<b>Viewing area (W x H)</b>	28,5 x 15,5 cm
<b>Specialties</b>	Electronic ballast included Improved illumination On choice: table or wall-mounted model



**Dentalschaukasten**  
Art.-Nr.: 643139

# Lead Markers

Do you use lead markers in your X-Ray daily routine such as numbers, letters, textes on plexiglass in different font sizes, or R/L markers in different designs or timers for gall bladder and kidney pictures? – REGO offers what you need.



**Standard Texts**  
Font size: 5 mm  
Art.-No.: 630017



**Letters A-Z**  
Font size: 7,5 mm  
Single: 630028  
Set: 630029



**Numbers 0-9, additionally 1, 2, 1/2**  
Single: 630007  
Set: 630008



**R - L Markers rectangular**  
Font size: 30 mm  
Art.-No.: 630031–630030



**R - L Markers rectangular**  
Font size: 15 mm  
Art.-No.: 630001–630002

## Numbers / letters and texts on plexiglas\*

<b>Material</b>	Plexiglas
<b>Thickness / Colour</b>	4 mm, on choice: yellow or red
<b>Font size</b>	R/L markers: on choice 15 mm or 30 mm Numbers / letters: on choice 5 mm; 7,5 mm; 10 mm Texts: On choice 5 mm or 7,5 mm
<b>Set</b>	Numbers: 0-9 , ½, 1, 2 Lead markers: A-Z
<b>Specialties</b>	Text templates: Marking can be chosen from a selection of texts
<b>Customized products</b>	Text templates: Custom made or with icons – on request For protection of the lead inlay a protection of backside with plexiglass is available on request.

\* For storage of your letters and numbers we offer a storage box with 40 compartments



**R - L Metal with chain**  
Art.-No.: 630013

## R-L Marker with chain

<b>Material</b>	Steel, nickel plated
<b>Font size</b>	15 mm
<b>Specialties</b>	The R and L marker plates are connected via chain
<b>Handling</b>	a.p./p.a. blank



**R - L Marker a-p/p-a.: Metal clip**  
Art.-No.: 630014 – 630015

## R-L Marker a-p/p-a.: metal clip

<b>Material</b>	Specialties
<b>Dimension of clips (W x H x D)</b>	15 x 40 x 15 mm
<b>Handling</b>	a.p. blank / p.a. blank
<b>Font size</b>	15 mm
<b>Specialties</b>	To be slipped onto an X-Ray cassette a.-p. and p.-a. marking depending on clip used



**Timer for Gall Blader and Kidney Pictures**  
Art.-No.: 630020 – 630021

## Timer for gall blader and kidney pictures

<b>Material</b>	Plastic
<b>Colour</b>	orange
<b>Specialties</b>	On choice available: 0-60 minutes, 0-240 minutes with indication „Empty“ and „after stimulus“

# Positioning Aids

Uncomplicated and successful X-ray recordings thanks to the REGO positioning aids! Choose from a big assortment of REGO positioning aids.

Foam: not coated, X-Ray reluctant, open-pored.  
Coated: foam inlay, Polyurethan.

Polyethylen: X-Ray reluctant, tight, washable, disinfectable.

Offset or indistinct X-Ray pictures are a very unsatisfactory result and not accepted for a perfect radiologic examination. The reason for this could be the slightest movements of the patient during the examination, caused by none or bad positioning on the Buckytable. Positioning aids are necessary to avoid such faulty radiographs and to offer a comfortable positioning of the patients at the same time. REGO has different shapes available, which can be used dependently on the specific examination. In addition, you can order a storage case for easy and compact storage.

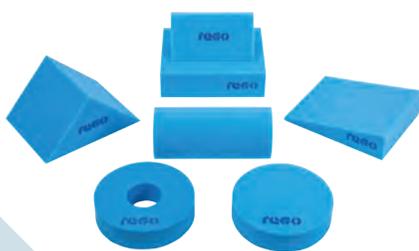
	Foam, uncoated	Coated	Polyethylen
<b>Material</b>	Foam	Foam	Polyethylen
<b>Features</b>	Uncoated, X-Ray reluctant, open-pored	Coated, X-Ray reluctant, disinfectable	X-Ray reluctant, tight, washable, disinfectable
<b>Shapes available:</b>			
Wedge flat 15°	200 mm x 250 mm x 70 mm / 10 mm	180 x 240 x 70 mm /10 mm	180 x 240 x 70 mm /10 mm
Wedge small 45°	120 x 200 x 60 mm	120 x 200 x 60 mm	180 x 100 x 50 mm
Wedge large 45°	250 x 200 x 125 mm	240 x 180 x 120 mm	240 x 180 x 120 mm
Cushion rectangular	200 x 250 x 70 mm	180 x 240 x 70 mm	240 x 180 x 50 mm
Cushion round, with hole	Ø 200 x 50mm / Ø 70 mm	Ø 200 x 50 mm / Ø 50 mm	Ø 200 x 50 mm / Ø 50 mm
Roll	Ø 110 x 250 mm	Ø 100 x 250 mm	Ø 100 x 250 mm
Cushion round without hole	Ø 200 x 50 mm	Ø 200 x 50 mm	Ø 200 x 50 mm
Long wedge 45°		240 x 360 x 120 mm	
Long wedge 45°		240 x 560 x 100 mm	
Cranial shape a.-p.	250x 250 x 100 mm	250 x 250 x 100 mm	
Cranial shape p.-a.	250x 250 x 100 mm	250 x 210 x 100 mm	
Cranial shape lateral right	250x 250 x 100 mm	300 x 300 x 100 mm	
Cranial shape lateral left	250x 250 x 100 mm	300 x 300 x 100 mm	
Babysshape		250 x 400 x 110 mm	
Infantshape		340 x 530 x 140 mm	
Model ULM		360 x 650 x 200 mm	
<b>Customized products</b>	On request	On request	On request



**Standard set 10 pcs + Storage case**



**Model ULM  
Art.-No.: 614118**



**Standard set 10 pcs  
Art.-Nr.: 614112**



**Cranial shape right and left  
Art.-No.: 614110-610111**

## Compression Belt

We recommend to use of REGO compression belts in order to get high-quality abdomen radiographs. By using a belt, adjustable by one or two suspenders, the patients upper body is positioned to the grid wall tripod in order to decrease the half value depth to improve the quality of the X-Ray.

<b>Field of application</b>	Abdomen radiography
<b>Material / Colour</b>	Tensioning cloth: 80% Polyester, 20% cotton; white Tensioning parts: Aluminium and plastic
<b>Size</b>	Width of belt: 24 cm, length of belt: 114 cm On choice: Tightening on one side, tightening on two sides
<b>Weight</b>	1 Suspender: 1 kg 2 Suspenders: 1,8 kg
<b>Mounting</b>	Can be inserted in units with profile sliding mechanism
<b>Customized products</b>	different railing systems

**Compression Belt for abdomen examinations,  
for T-Nut Rail system with 1 Suspender  
Art.-No.: 612002**



## Truss Pads

Easy radiography, high quality, facilitated diagnosis: Use our truss pads for fixing the patient to the vertical stand while taking X-Ray pictures. Thus, bad pictures caused by motion blur are avoided.

<b>Field of application</b>	X-Rays of abdomen
<b>Material / Colour</b>	Aluminium anodized, soft rubber caps
<b>Size</b>	Appr. 1,6 kg / pair
<b>Mounting</b>	To be inserted in integrated T-Nut of the grid wall tripod and fixing / adjusting the knurled screw

**Truss Pads for T-Nut rail system, 1 pair  
Art.-No.: 612001**



## Device Rippstein

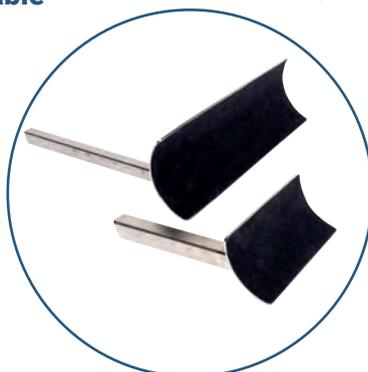
The application of the Rippstein device is necessary for antetorsion X-Rays a.-p. and also those in direction of the shaft in the femur with a 90° hip- and knee flexion in order to obtain a high quality diagnostics. Any movement or failure, while positioning, would effect substantial deviations on the X-Ray images. REGO Rippstein device positions the patients and keeps them still in the desired position; high-quality and precise images are guaranteed!

There are available holders for the shanks for children and adults, an individual adjustment of the Rippstein device to the hip width, upper leg and lower leg is also possible by adapting two metal bars.

<b>Field of application</b>	Imaging antetorsion
<b>Material</b>	Stainless steel, cellular rubber
<b>Weight</b>	Appr. 6 kg
<b>Dimension (W x H x D)</b>	Width: max. appr. 70 cm Height: max. appr. 45 cm
<b>Specialties</b>	Holder for lower legs in two sizes included Can be adjusted in width as well as in height with screw lock devices Can be fixed on T-slots or on the side profile rails of the X-Ray table



**Adjustable**



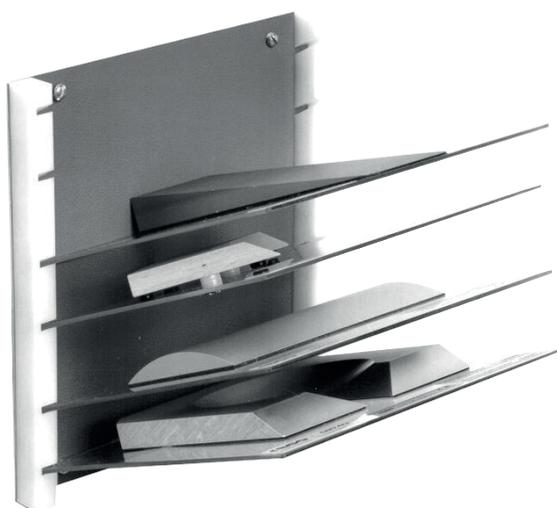
**2 different sizes**



**Device Rippstein Art.-No.: 614300**

# Compensating Filter

A versatile filter for your X-Rays – X-Rays of the shoulder, pelvis or spine are a challenge in your daily routine. Too much radiation is absorbed by the surrounding, differently thick parts of the body. The targeted area is overexposed and the radiography shows a nearly black patch instead. You can avoid this when using compensating filters, which eliminate the interfering soft rays. You achieve an absorption and thus an improved X-Ray quality. At the same time exposure to radiation on the patients' side is reduced. Depending on the X-Ray apparatus, the transparent base plates are made of impact-resistant polycarbon in various sizes.



**Filterholder for up to 6 filters**  
**Art.-No.: 620020**

<b>Material</b>	Aluminium alloy
<b>Ground plate / Colour</b>	Polycarbon, transparent
<b>Dimension</b>	Base plate: standard sizes: on choice 170 x 170 mm or 176 x 176 mm
<b>Size</b>	36: 43 x 52 x 35 cm 72: 79,5 x 52 x 35 cm 108: 116 x 52 x 35 cm 144: 152 x 52 x 35 cm
<b>Formen</b>	<p>Hilus-filter for tomography of lung, for a.-p. and p.a. X-Rays: Classic (made of high quality acrylic glass) <b>Art.- No.: 620001</b> Universal (made of a special aluminium alloy) <b>Art.- No: 620002</b></p> <p>For X-Rays of spine and extremities +/- <b>Art.- No: 620003</b></p> <p>For X-Rays of foot, lungs in female patients and for thoracic spine (a.-p.) +/- <b>Art.- No: 620004</b></p> <p>For X-Rays of total leg, upright positioned, pelvis, high narrow-waist and broad-hip compensation +/- <b>Art.- No.: 620005</b></p> <p>For X-rays of shoulder joints (a.-p) <b>Art.- No.: 620006</b></p> <p>For X-Rays of skull (frontal und lateral) <b>Art.- No.: 620007</b></p> <p>For X-Rays of thoracic spine (lateral) <b>Art.- No.: 620008</b> For anterior somatograms (Rippstein) in child orthopaedics</p> <p>For X-Rays of pelvis (a.-p) <b>Art.- No.: 620009</b></p> <p>Für X-Rays of abdomen <b>Art.- No.: 620010</b></p> <p>Pediatric filters as additional filter for reduction of X-Rays in pediatry (made of bimetal or transparent, sizes 170 x 176 mm) Pediatric filter 1mm Al/0,10 mm Cu <b>Art.- No.: 620013</b> Pediatric filter 1mm Al/0,20 mm Cu <b>Art.- No.: 620014</b></p> <p>For X-Rays of thoriacic spine, lumber spine and pelvis +/- <b>Art.- No.: 620015</b></p> <p>For X-Rays of hand and fingers <b>Art.- No.: 620016</b></p>
<b>Customized products</b>	The standard sizes (170x170mm and 176x176mm) fit into the light localizers of all common X-ray devices (e.g. Siemens, Philips). Other formats are also available on request

\* Filterholder for 6 filters is available on request



# REGO

## X-Ray Cassettes and Accessories



## X-Ray Cassettes

X-Ray cassettes for grids, for autoradiography, available in every size: the standard REGO X-Ray cassette Type G completes your radiology.

In addition, we offer our flexible cassettes with slider in various sizes. The flexibility allows the cassette to be adjusted to every body shape

<b>Material of foam pad</b>	Surface sealing PU – foam (FCKW-free)
<b>Card holder</b>	ABS – plastic injection molding, black
<b>Outer cover</b>	Aluminium housing Front side: Aluminium sheet, painted white RAL 7035 Back side: Aluminium sheet, painted blue Frame: Aluminium profile Hinges: Aluminium
<b>Models</b>	Type G: Aluminum cassette with latch closure Type Cassette flexible: with slider, flexible
<b>Sizes</b>	Available in any size: from 9 x 12 cm – 40 x 120 cm Standard sizes: 18 x 24 cm, 15 x 30 cm, 24 x 30 cm, 35 x 35 cm, 35 x 43 cm
<b>Customized products</b>	Special sizes on request With steel screens for NDT: on request With lead foil on request



**X-Ray Cassette 18x24 cm**  
Art.-No.: 120005



**on choice: with steel foil or lead foil**

## Detector- / Cassette Holder

Many different cassette sizes and formats, and one slot for the grid wall tripod – this can be a challenge for the everyday use. REGO has got the perfect solution for you:

The mounted grid does not fit to your necessary specifications for your desired screening: Choose the REGO cassette holder – available in in different variations for installing them onto the side rails of the grid wall tripod or for wall mount.

To install these holders, lateral rails on both sides are necessary – You don't have these? U-shaped-holders are available as custom made product to be mounted to the tripod and enabling the installation on the cassette holder.



**Cassette Holder Type B - for Cassettes with imaging plate and grid**  
**18x24 up to 35x124 cm**  
**Art.-No.: 102120**

R-Holder, B/W-Holders:

	Cassette Holder Type R	Cassette Holder Type B	Cassette Holder Type W
<b>Material</b>	Aluminium anodized	Aluminium anodized	Aluminium anodized
<b>Features</b>	X-Rays without moving grid, high stability Low weight (appr. 2,5 kg)	X-Rays without moving grid, high stability Low weight (appr. 2,5 kg)	X-Rays without moving grid, high stability Low weight (appr. 2,5 kg)
<b>Fixing</b>	Hanging into the side rails of the grid wall tripod; suitable for all standard front plates with profile sliding mechanism, DIN-profile slides	Hanging into the side rails of the grid wall tripod; suitable for all standard front plates with profile sliding mechanism, DIN-profile slides	Wall mounting
<b>Cassette sizes</b>	13 x 18 cm – 35 x 43 cm Up to 30 x 90 cm Up to 30 x 120 cm	18 x 24 cm – 35 x 43 cm 60 – 120 cm length (for large sized cassettes)	18 x 24 cm – 35 x 43 cm 60 – 120 cm length (for large sized cassettes) 210 cm cm (length of bar) for full body X-Rays
<b>Special features</b>		Height adjustable (5 cm spaces by snap in pins)	Height adjustable (5 cm spaces by snap in pins)

## HOLDERS for Slip-on-Grid and for Special and In-Bed X-Rays

If positioning of the patient for taking X-Rays is difficult, then cassette holders for special and in-bed X-Rays are required. The radiography can be enabled in horizontal position on the bucky table or in bed, while positioning the cassette vertically in the cassette holder (also possible for slip-on-grids).

High stability, low weight, adjustable to all cassette sizes, and also as model for slip-on-grids available.

	Cassette Holder for Slip-on-Grid	Cassette Holder for special and in-bed X-Rays
<b>Material</b>	Plastic light grey, with stable Aluminium profiles	Plastic light grey, with stable Aluminium profiles
<b>Features</b>	Cassette and grid to be positioned vertically; to be used for slip-on-grids and cassette	Cassette can be used in vertical position
<b>Mounting</b>	portable	portable
<b>Cassette sizes</b>	13 x 18 cm up to 35 x 43 cm Variable thickness of slip-on-grid	13 x 18 cm up to 35 x 43 cm Also for X-Ray cassettes with up to 16 mm thickness



**Cassette Holder for  
special and in-bed X-Rays  
up to 35 x 43 cm  
Art.-No.: 102121**



**Holder for Slip-on-Grids for  
special and in-bed X-Rays  
up to 35 x 43 cm  
Art.-No.: 102122**



## Detector- / Cassette Holder, mobile

Mobile, safe from falling over, height adjustable and can be turned & swivelled: The universally used mobile REGO detector- / cassette holder in radiology and radiotherapy is the solution for numerous simple, as well as highly complex radiographies for a lot of different scopes. Suitable for digital detectors, cassettes with / without heavy steel screens and slip-on-grids.

These various features of adjustment guarantee precise recordings of desired body areas of both adults and children.

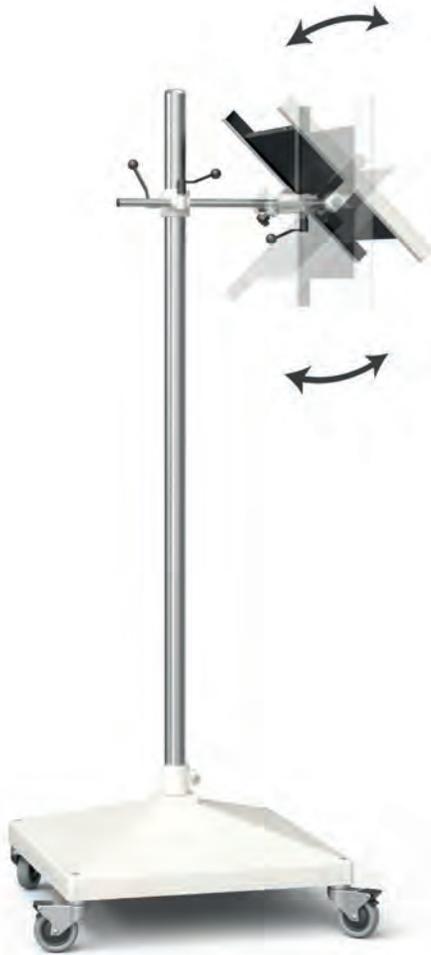
<b>Fields of application</b>	Radiology and Radiotherapy
<b>Material</b>	Painted metal construction, partially stainless steel
<b>Technical Details</b>	Slide bearings between clamping pieces and rods Suitable clamping pins for simple fixing
<b>Mounting</b>	Mobile, 4 wheels with brake
<b>Weight</b>	32 kg (without detector / cassette)
<b>Features</b>	To be used for digital detectors, cassettes (with / without steel screen) and slip-on-grids with cassettes. Non tilting in any position of detector / cassette
<b>Cassette sizes</b>	13 x 18 cm up to 35 x 43 cm
<b>Adjustment</b>	In height from 0 cm up to 184 cm Axis of cassette swivelling vertically from left / right up to 90° Turning of cassette in its level by 360° Tilting of cassette in the horizontal level by 90°
<b>Customized products</b>	On request



**Mobile Detector- / Cassette Holder**  
**Art.-No.: 102125**

## Detector- / Cassette Holder, mobile

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**Mobile Detector- / Cassette Holder**  
**Art.-No.: 102125**

# reGO

## X-Ray Cassette Accessories



**reGO**  
X-RAY PROTECTION  
RÖNTGENSCHUTZ

Artistic X-ray screen cleaner

Directions for use:

1. Please spray with distance of 20 cm
2. Clean with soft cloth evenly
3. Dry with clean cloth
4. Leave cassette open for 15 min for drying
5. Clean screens every 6 weeks

⚠ Caution:

Avoid eye contact

In case of eye contact, immediately wash with water and consult a doctor.

Ingredients:

- Demineralized water
- Isopropanol
- Aromatic concentrate



## Screen Cleaner

Dirty intensifying screens are a thing of the past, thanks to this cleaning agent: Antistatic, liquid, colorless cleaning agent on Cyastate-, Isopropanol- and water base.

<b>Chemical composites</b>	Cyastat SN Isopropanol Water
<b>Colour</b>	Liquid, colorless
<b>Specialties</b>	Antistatic



Art.-No.: 201002

## Intensifying Screens

In order to obtain a sharp and high-resolution quality picture, one often requires intensifying screens with fluorescent salt made from Rare Earths. These absorb the X-Rays more efficiently and emit the radiation via visible light onto the film / imaging plate. That way you can reach the desired sharpness of the radiograph easily and safely. The simple installation, by adhesion, and the choice between different speed classes (100, 200, 400, 800) facilitates your daily radiologic routine. One thing to observe: Which screens are suitable for your imaging? - Depending on the type of imaging the use of green- or blue-emitting is necessary. The higher the speed class, the higher is the patient's protection, however the sharpness of the picture will be deteriorated at the same time.

<b>Material</b>	Green emitting (Rare Earth Material) Blue emitting (Basis Calcium Tungstate)
<b>Speed Class</b>	On choice: 100, 200, 400, 800
<b>Mounting</b>	Adhesion in the cassette
<b>Size</b>	Any size possible: from 9 x 12 cm up to 40 x 40 cm



For various application fields the graduated screens might be adequate, more information on request.

## X-Ray Ruler

You get an easy, direct, according to scale reading of information in 2 mm steps by having the X-Ray ruler displayed onto the radiography through its lead inlays and lead numbers.

<b>Material</b>	Grey plastic with lead numbers and lead inlays
<b>Dimension</b>	4 mm thick, 40 mm wide, length up to 200 cm, can be ordered in 10 cm steps



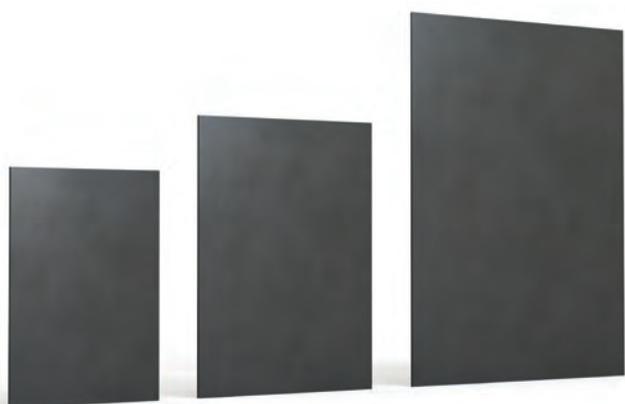
Art.-No.: 121150

## Lead Vinyl Divider

The use of Lead Vinyl Dividers is resource-saving and easy to handle. This way you can use an imaging screen most efficiently and it can quickly be divided onto different radiographs.

Put the Divider on the desired surface of the cassette to spare that part from the radiation in order to use that part for another screening in the same way.

<b>Material</b>	Lead Vinyl
<b>Lead equivalent</b>	1,0 mm Pb
<b>Size</b>	Available for all standard cassette sizes, additionally in oblong or longitudinal format Oblong: e.g. 10,3 x 26,5 cm, 13,3 x 32,5 cm, 19,0 x 38,0 cm, 19,0 x 46 cm Longitudinal: e.g. 20,5 x 13,3 cm, 26,5 x 16,3 cm, 38,0 x 19,0 cm, 38,0 x 23,0 cm



## X-Ray Scattered Radiation Grids

In order to minimize the scattered radiation and improve the quality of X-Rays you can use X-Ray grids consisting of numerous lead lamellae. Depending on the configuration, parallel or focused to the X-ray direction in V-Shape, the choice is between parallel or focused grids with their specific advantages and disadvantages.

You wish to have a best quality X-Ray picture and a perfect positioning (centering and focusing) of the patient? Then the focused grid is your choice. The scattered radiation is absorbed as much as possible, the direct radiation gets through the customized lamellae perfectly through the grid and enables in this way a premium quality X-Ray picture.

For in bed patients or in emergency rooms, where a correct positioning of the patient is difficult or nearly impossible, we propose the parallel grid. The quality is lower however the size of picture is bigger, and you have a more successful radiography.

All grids mentioned below are available as parallel and as focused grids. In addition to the lines per cm you can choose different ratios. The ratio describes the relation between lamellae's height and lamellae's distance.



## Smit-Grids/ Smit-Bucky Grids

Lightweight, portable, high X-Ray reluctance and as low as possible absorption of primary radiation – at the same time the patient is exposed to a low as possible radiation dose.

The reason for the high quality is the highly transparent interspacer, which enables a thickness of the grid up to 5 mm. Thus, a higher quality picture is possible.

The Smit-grids are available as mobile version as well as mounted onto the Bucky table (Smit-Bucky-grid).

<b>Material</b>	Highly transparent interspacer
<b>Thickness of grid</b>	Up to 5 mm
<b>Mounting</b>	Mobile or on Bucky table
<b>Lines /cm / Ratio*</b>	Smit-grid: 44/8, 44/10, 44/12, 60/10 Smit-Bucky-grid: 36/8; 36/10, 36/12, 44/8, 44/10, 44/12, 60/10, 60/13
<b>Sizes</b>	Smit-grid: all sizes from 13 x 18 cm up to 40 x 40 cm Smit-Bucky grid: 48 x 43,8 cm

\* Ständer für bis zu 6 Filter auf Wunsch erhältlich



## REGO Special Grids

The REGO Special Grids are applicable in many ways as they can be put in the X-Ray cassettes and also be placed loosely onto the X-Ray cassette. Additionally, they can be built into the slip-on-grid.

<b>Material</b>	Aluminium/lead lamellae with changeable configuration inside of the grid
<b>Thickness of grids</b>	Up to 3 mm
<b>Ratio: lines/cm</b>	Optionally: Ratio 6: 60 lines/cm; 70 lines/cm; 80 lines/cm Ratio 8: 40 lines/cm; 60 lines/cm; 70 lines/cm; 80 lines/cm Ratio 10: 40 lines/cm; 60 lines/cm; 70 lines/cm; 80 lines/cm Ratio 12: 40 lines/cm; 60 lines/cm; 70 lines/cm; 80 lines/cm
<b>Sizes</b>	Available in all standard sizes: 40 lines/cm: from 13 x 18 cm up to 40 x 40 cm 60 lines/cm: from 18 x 24 cm up to 40 x 40 cm
<b>Special sizes / specific number of lines</b>	On request



## Slip-on Grid

The REGO slip-on grids is a high quality, utmost lightweight and stable protection for grids made of carbon fibre. The grid is glued into the bridge being protected by a cover of carbon fibre. Then the cassette or the detector is inserted into the slip-on grid. At the same time it keeps the high X-Ray reluctance. The slip-ons made of carbon fibre have increased lightness, X-Ray reluctance and are optically more attractive than the conventional slip-ons made of synthetics.

<b>Material</b>	On choice: Carbon fibre or stainless steel
<b>Weight</b>	Without grid: 0,65 kg
<b>Sizes</b>	On choice: 24 x 30 cm, 35 x 43 cm
<b>Specialties</b>	Housing made of carbon fibre, one part Applicable for any grids

**Slip-on grids consist of:**  
**Art.-No.: 301001 + 302042 + 301004 + GRID**



## Carbon Fibre Slip-on Grid

### Sandwich-construction

The REGO Carbon Fibre slip-on grid in sandwich construction offers protection from dirt, impacts and shocks or a too high surface load through patients. The highly sensitive detector can be inserted into the completely enclosing case which has rubber metal buffers in the inside. A locking secures the inserted detector from falling out. For the best handling the carbon fibre slip-on grid is equipped with a handle.

<b>Material</b>	Carbon fibre/Polyethylen/Carbon fibre (2,0/20/2,0 mm) Outside: Carbon fibre, inside: Rubber-metal buffer
<b>Weight</b>	1,9 kg
<b>Dimensions (W x H x D)</b>	Outer dimensions: 51,1 x 43 x 2 cm Inner dimensions: 46,1 x 38,6 x 1,6 cm (without rubber metal buffers)
<b>Size</b>	35 x 43 cm
<b>Specialties</b>	Handle included VA-sliding lock, spring loaded, included Incorporation of grid possible
<b>Customized products</b>	Other sizes on request Can be adapted for any detector brand

**Carbon Fibre Slip-on grid in sandwich-construction**  
**Art.-No.: 302051**



## Carbon Fibre Slip-on Grid with Lock

Having a high loading capacity, service durability, and low weight this product is perfectly securing the inside grids and cassettes in every X-ray equipment, indifferently if WLAN controlled or tethered equipment. Perfectly fitting for your daily radiologic routine. Please choose your protecting bridge with a handle placed on the long or short side. Additionally, it includes a carbon fibre inlay for ideal weight distribution.

<b>Material</b>	Carbon fibre, stainless steel
<b>Weight</b>	1,4 kg
<b>Dimensions (W x H x D)</b>	47,5 x 46,3 x 2,5 cm
<b>Size</b>	35 x 43 cm
<b>Specialties</b>	Handle on the long or short side (your choice) for one hand operation Inlay of Carbon fibre included Edges rounded off included To be used for WLAN controlled system or tethered equipment

**Slip-on grid with lock (long side)**  
Art.-No.: 302060



## Heavy Duty Cover for Detectors

You are searching for a highly durable cover for your detectors or cassettes? The Article 302062 can withstand up to 192 kg while simultaneously being lightweight and portable through the integrated handlebar. Equipped with a marked target area it facilitates positioning of the patient.

On hard or soft surfaces, through its integrated non-skid rubber feet, every radiograph is a success, while maintaining maximum patient safety.

<b>Application areas</b>	Bariatrics and podiatrics
<b>Material</b>	Carbon fibre, Polyethylene
<b>Weight</b>	3 kg
<b>Size (W x H x D)</b>	430 x 510 x 37 mm
<b>Sizes</b>	35 x 43 cm
<b>Specialties</b>	Non-skid rubber feet included Printed target area included Guaranteed loading capacity (max.): 192 kg

**Heavy Duty Cover for Detectors**  
Art.-No.: 302062



# Weight Bearing Platform

Röntgenaufnahmen von Knien, Unterschenkeln, Knöcheln oder Füßen, mit der 1-stufigen oder 2-stufigen Gewichtsverteilungsplattform werden dies zum Kinderspiel! Rutschfeste GummifüÙe und Plattformoberfläche des Stufenmodells, sowie ein festmontiertes Stahlgeländer bieten maximale Sicherheit des Patienten und garantieren gleichzeitig mit durch die integrierten Detektorlots bestmögliche Röntgenbilder. Erleichtern Sie sich Ihren Röntgenalltag!

<b>Application areas</b>	X-Ray images of knee, lower leg, ankle and foot
<b>Material</b>	HDPE plastic material and stainless steel
<b>Weight</b>	1-step: 20 kg 2-step: 60 kg
<b>Size (W x H x D)</b>	1-step: 60 x 104 x 51 cm (step's height: 15 cm) 2-step: 71 x 130 x 84 cm (1. step: 19 cm, 2. step: 38 cm) Dimensions of platform: 59 x 71 cm
<b>Sizes</b>	35 x 43 cm, 43 x 43 cm
<b>Number of detector slots</b>	1-step: 1 2-step: 5
<b>Specialties</b>	Non-skid rubber feet included Non-skid platform surface included Handrail made of stainless steel included Rolls at the backside included Guaranteed loading capacity (max.): 340 kg

**Weight bearing platform (2-steps)**  
**Art.-No.: 302064**



# REGO

## Devices



## Dosimeter Alpha Plus for Constancy Tests

Device with connecting possibilities onto different detectors offering numerous application possibilities: Tests of dose constancy of all analog and digital X-ray / radiographic / mammographic or dental equipments. The graphical display showing the dose, dose rate and recording time are highlighted.



<b>Application area</b>	Constancy tests of the X-Ray devices
<b>Viewing area dose</b>	0,000 Gray – 99,99 Gray
<b>Viewing area time</b>	0,001 seconds – 9999 seconds
<b>Weight</b>	300 grams
<b>Size (W x H x D)</b>	
<b>Interfaces</b>	PC (SUB-D-plug)
<b>Power supply</b>	9V Alkali-block battery, 30 hours operating time
<b>Specialties</b>	Basic device with connection for changeable detectors and dose sensors Viewing area of dose, dose rate and acquisition time

Art.-No.: 522035

## Dose Sensor: Finger Detector

For measurement of the radiation, you should apply this finger detector. When inserted in the radiation path, the finger detector meters the recording time and transfers it to the final device Alpha Plus with an integrated cable. The Alpha Plus visualizes and displays the values measured.

<b>Application areas</b>	Constancy tests of digital X-Ray device
<b>Basic device</b>	Alpha Plus
<b>Dose range</b>	0,1 mGy/s – 500 mGy/s
<b>Energy range</b>	50 kV – 155 kV
<b>Measurement accuracy</b>	Better than 5% under reference conditions
<b>Cable length</b>	130 cm
<b>Specialties</b>	Can be used as external sensor and also inserted in patient's equivalent filter Plug connection, to be screwed, included Flexible cable, included

Art.-No.: 522036



## Dose Sensor: Mammographic Detector

Mammographic X-Ray devices basically vary in the dose of radiation applied, in comparison to the conventional X-Ray devices. The significantly lower X-Ray dose of maximum 50 kV complicate the receipt of precise results for constancy measurements done with usual detectors.

Thus, a mammographic detector had been developed: Measurement of X-Ray dose from 22 kV up to 55 kV can be determined with this device and are read out and displayed via the basic device Alpha Plus.



<b>Application area</b>	Constancy tests of analog and digital X-Ray devices
<b>Basic device</b>	Alpha Plus
<b>Material</b>	Housing of plastic material
<b>Dose range</b>	0,1 mGy/s – 500 mGy/s
<b>Energy range</b>	22 kV – 55 kV
<b>Cable length</b>	130 cm
<b>Weight</b>	50 Gramm
<b>Size (W x H x D)</b>	
<b>Specialties</b>	Plug connection, to be screwed, included Flexible cable, included

Art.-No.: 522037

## Patient-equivalent Filter/ Absorption Filter

Choose our absorption filter for inspection and testing of your X-Ray equipment: Inserted into the X-Ray device and optionally available with insertion slot for "finger"-detector.

The measurement results are transferred and read out by the basic device Alpha Plus.

<b>Application area</b>	Constancy tests of X-Ray devices
<b>Basic device</b>	Alpha Plus
<b>Material</b>	25 mm Aluminium
<b>Dose range</b>	0,1 mGy/s – 500 mGy/s
<b>Energy range</b>	50 kV – 155 kV
<b>Weight</b>	1200 grams
<b>Specialties</b>	Plug connection, to be screwed, included Insertion slot for finger detector – on request

Art.-No.: 522038



# Dose Area Product Meter

In order to ensure a maximum quality whereas patient's radiation is held on a minimum, you have to control the dose area product regularly.

This product is equipped with a transparent ionization chamber with integrated electronics and internal LCD display.

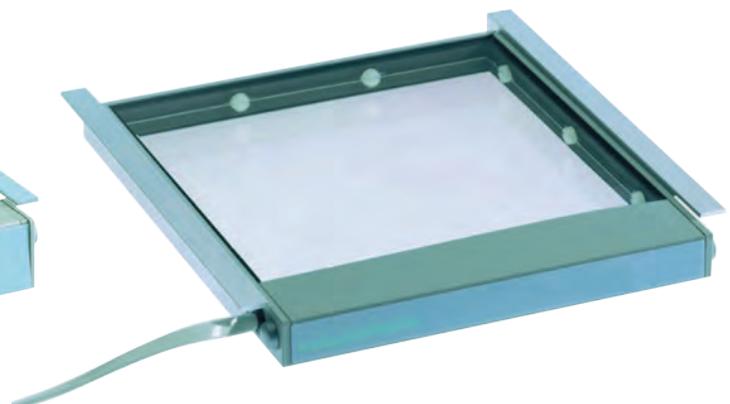
If you require an interface to a printer or to a personal computer, then choose the model SDP.

If there is no request for that, the dose area product meter with internal illuminated display is the right choice for you.

	IPS	SDP
<b>Application area</b>	Metering system for the dose area product for upper tubes	
<b>Mounting</b>	Insertion in the collimator	
<b>Power supply</b>	Light beam or power supply	
<b>Interface</b>	-	Personal computer/printer
<b>Specialties</b>	Internal illuminated display included	External, just one line, illuminated display included Ionisation chamber, transparent, included Additional guide rails or adapter in different sizes – on request Connection cable included Joints included



**IPS**  
Art.-No.: 522030



**SDP**  
Art.-No.: 522031

## Safelight – LED-X

For film development in small and mid-sized darkrooms you use safelight LED with red filter (Polymethylmethacrylat – PMMA). Facilitate your daily work routine with this dimmable light. Its indirect light is suitable for all imaging screens and dental screens.



Art.-No.: 643011

<b>Application area</b>	During processing green / blue emitting films in darkrooms, for any X-Ray film types and dental films
<b>Material / colour</b>	Plastic material / white
<b>Mounting</b>	Wall mounting
<b>Power supply</b>	AC 110-230 V / 50-60 Hz 20 LEDs: DC 12 V / 700 mA, 5W
<b>Weight</b>	400 grams
<b>Size (W x H x D)</b>	110 x 70 x 160 mm
<b>Environmental conditions allowed</b>	Temperature: -30°C - + 50°C Humidity: 30% - 90% (without condensation)
<b>Specialties</b>	Red lamp (640 nm) Brightness control (on the backside) included Cable 1,5 m included

## Fluorad 150

Testing device for the acceptance test of imaging and scanning devices according to DIN 6868 Part 150.

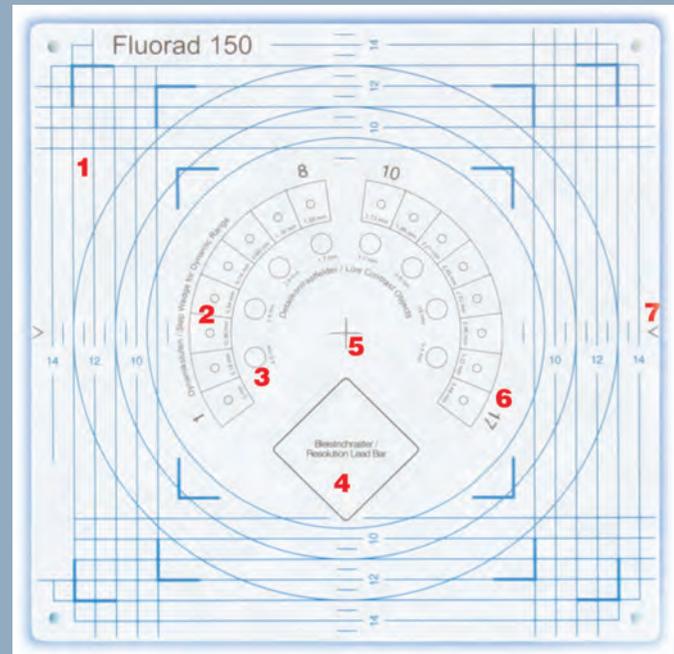
With "Fluorad 150" you are able to make the following statements:

Dynamic range  
Contrast Resolution  
Spatial Resolution  
Radiation Quality  
Homogeneity

<b>Size (W x H x D)</b>	300 mm x 300 mm x 18,5 mm
<b>Construction</b>	The copper plate within the details is bedded in acrylglas plates.
<b>Material / colour</b>	The acrylglas is white, so that the light radiation can be better seen under spotlight conditions.
<b>Specialties</b>	The structures are painted on both sides of the testphantom.

## Fluorad 150

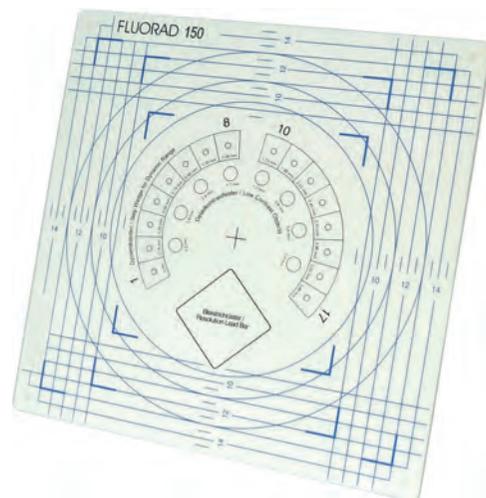
1. The copper plate is 1,5 mm thick
2. 17-leveled copper steps for checking the contrast range (thickness 0,0 to 3,5 mm) within a dynamic level there is also a detail contrast field ( $\varnothing$  4 mm)
3. 8 detailed contrast fields ( $\varnothing$  10 mm) to determine the contrast resolution
4. Lead line grid (0.5 to 5 LP/mm), rotated 45°, to determine the spatial resolution
5. Radiation-proof center marking
6. Radiation-dense digits for designating the dynamic levels
7. Positioning lines



The overall size of the test body for the FLURORAD 150 is 300 mm x 300 mm x 18,5 mm. The copper plate within the details is embedded in acrylglass-plates.

The acrylglass is white, so that the light radiation better seen under spotlight conditions.

The structures are painted on both sides of the testphantom.



# REGO

## Accessories and Hygiene Products



## Cleanser for X-Ray Protection Clothing

Clean and simultaneously smelling freshly and decently – choose our REGO cleanser free of aldehyde for cleaning your aprons!

<b>Application area</b>	Cleaning of X-Ray protection clothing
<b>Chemical components</b>	2% concentrate 98% distilled water
<b>Colour</b>	Liquid, green
<b>Specialties</b>	Smell fresh and decent, free of aldehyde
<b>Set</b>	250 ml bottle with sprayer



# REGO Mouth and Nose Protection Cover

The silver series REGO Mouth- and Noseprotection cover was designed under the recent pandemic situation we encountered. The protection fulfills its duty on exterior occasion. This prevents the transmission of droplets, which can come in contact with the nose and mouth area.

## Mouth- and Nose Protection Cover Models

The Silver Series REGO Mouth- and Noseprotection Covers available in 10 piece pack and 4 different colors. It has 2 variants.

As a well-known manufacturer of X-ray protective clothing, we have used our Personal Protective Equipment (PPE) Directive (EU) 2016/425 experience in the manufacturing of this mouth and nose protection mask.

The Polyester material partially contains silver threads, which are antibacterial (confirmed by the Testing institute OPMG), antistatic, odor-repelling, thermoregulating and water resistant. Scientific studies show that silver ions are able to destroy pathogenes. In its development we took special care for it to be comfortably to wear. It has 2 different types of closing mechanism:

Type 1: 2 pairs of bands. To tie them together  
Type 2: 2 integrated rubber ear slopes for easy pull over.

The cotton inlay offers additional comfort and absorbs the moisture of the air from the mouth  
Easy to handle it can be washed up to 60° C in the gentle cycle of your washing machine.

Atlantic blue	For lacing or with elastic rubber band
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Bavarian blue	For lacing or with elastic rubber band
---------------	--

Burgundy red	For lacing or with elastic rubber band
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Smaragd green	For lacing or with elastic rubber band
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The laminated side of the mouth and nose protection mask is waterproof and offers limited air permeability. In this way, air circulation during breathing takes place outside the surface of the mask. All physical properties of the material have been tested by the manufacturer according to European standards. We hereby declare that the mask does not comply with the PPE regulation.

## Features

High performance	Proven antibacterial effect
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Comfort	Quick attachment by elastic ear loops
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Protection	Cotton insert for graduation of breath moisture
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Fastenings	2 fastening options : 2 pairs ribbons for lacing or elastic ear loops
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## Terms and Conditions

1. The general terms and conditions of the buyer do not apply. They shall also not apply, if we do not particularly contradict them.
2. Delivery and charging is based on the terms and conditions valid on the day of shipping, unless there was a binding offer forehand for the buyer. The day of shipping is the day, when the goods are delivered to the shipper, train, post or to another consignor.
3. In case of express shipment at the buyer`s request, the buyer bears the difference between expenses for normal freight and that for the expedited shipping.
4. As far as terms of delivery have been agreed, they do not apply in case of interrupted production processes, especially because of fire, explosion, floodings, engine trouble or regulatory actions and because of force majeure, including strikes, lockouts, warlike or terrorist occasions. The deadline is also cancelled in case of the named occasions at a supplier, who supplies the necessary materials for our products. In the named cases we have the option, to discontinue also another supply without paying compensation. The delivery time is calculated in case of doubt from the day of the order confirmation till the day of the shipping.
5. Partial shipping- and packaging costs will be calculated. A transport insurance takes place only on request and only by reimbursement of costs. In case of orders less than 50,00 EUR net value there will be calculated a small quantity surcharge. In case of credit advice for returning goods, that are for our part unindebted, an amount at most 20% of the net value, but 20,00 EUR minimum for coverage of the internal expenses and the delivery charges will be deducted. If returning goods are not carefully and impeccably packaged, we do not assume liability.
6. We reserve us the proprietary rights of all goods, supplied by us, till the buyer has paid all receivables including interest and costs. Pledge or a transfer to innocent bystanders by buyer are illegal.
7. In case of pledge of our goods by third parties the buyer is required to inform us immediately.
8. If we receive any inappropriate or dissatisfying information about the buyer after the conclusion of contract, we have the right, to terminate the contract because of this reason and / or to claim for our claims and / or the current contract guarantees.
9. Also without negative information we reserve for ourselves, the right to claim prepayment or cash payment for our supplies case by case.
10. In case of payment within 10 days we grant 2% discount. Within 30 days the net billing amount is owed. After 30 days the buyer is automatically and without another reminder in default.
11. If the buyer delays in payment, we calculate at the minimum default charges according to the law (§ 288 I, II BGB). The buyer`s default discharges us from another delivery obligation.
12. In case of draft and cheque payment the buyer has to pay the discount charges and all other costs. Also, the buyer has to pay draft and cheques which are not covered. Draft and cheques are only accepted on account of performance. Payment is considered to be effected only after credit to our account has been confirmed by our bankers.
13. The buyer is competent to charge against claims, if his consideration is uncontested or legally binding. The buyer`s rights of retention are excluded, as far as they do not base on the same contractual relationship.
14. Notices of defects are to be argued immediately, but within 8 days after receipt of the goods at the latest, as far as the buyer is a trader and there are no hidden defects.
15. The statute of limitation of claims for defects is one year. This does not apply, if the defect was withheld fraudulently, there is a guarantee commitment, there are damages based on injury of life, of body or of healthiness or the damage based on a reckless endangerment or fundamental breach on our part or on our representatives or on our performing agent.
16. The claims become invalid by legal terms, independent of previous or subsequent clauses of this contract by injury of life, of body or of healthiness, which are based on a negligent or a nonnegligent violation of duty of our legal representatives or performing agents. The same applies to claims based on fraudulent concealment or those, arisen by an explicit written given warranty.
17. For other damages than claims for defects we are only liable, as far as this is mandatory legally, in case of with intent, of reckless endangerment on our part, our representatives or our performing agents, of injury of life, of body or of healthiness, which are based on our part negligence, our representatives or our performing agents. The same applies to damages, which accrued by fraudulent concealment or accrued in contrary to an explicit written granted warranty.
18. We are not liable for the aimed success at the customer.
19. Our liability for the rest is excluded for ordinary negligence.
20. If we have to take a legal action for enforcement of not paid claims, all other payable claims may be also sued, even if there is no event of default.
21. The customer agrees that his personal data will be processed and stored, as this is necessary for consummation of this contract. This also applies to settlement of payment.
22. The place of performance is Augsburg.
23. The place of jurisdiction is Augsburg if the customer runs a business within the meaning of the German Commercial Code (HGB). In this case we are allowed to litigate at the place of main office or branch office of the customer.
24. If the customer has no domestic place of general jurisdiction or if he transfers his place of residence out of Federal Republic of Germany after the conclusion of contract, Augsburg is the place of jurisdiction. This also applies, if the residence of the employer is unknown at the moment of commencement of proceedings.
25. German law applies with the exception of international codifications like for example CISG (Convention on Contracts for International Sale of Goods).

Please consider that the specifications and pictures in the catalog are without obligation. We reserve the right to change the delivery item in relation to the models shown here.





# rego

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