



## **Dental Medicine Safety & Comfort**

X-Ray Protection for Patients and Personnel

**MAVIG**



1921



1960



1972



1985

For over **100 years**, MAVIG has specialised in personal protection at workplaces where people are exposed to risk.

What began in Leipzig in 1921 with the production of protective products for X-ray and welding has now become an internationally successful company with an excellent reputation in the field of radiation protection and medical support systems for hospitals and medical practices.

Production grew steadily in the decades that followed the founding of the company. Protective products for X-ray and welding were successfully marketed all over the world under the MAVIG® trademark. In the post-war years, the company's headquarters and production facilities were relocated to Munich.

The family-run company "MAVIG" has always maintained the principles of a modern company:

**"The customer and customer satisfaction are the top priority".**

**MAVIG is 100% independent and owner-managed.**

# MAVIG



# SAFETY SINCE 1921

MADE IN GERMANY



## Quality Management

MAVIG products are designed, manufactured and distributed in strict observance of all laws, regulations and standards.

Every product is tested for its safety and reliability, in some cases applying higher and stricter requirements than are prescribed by law.

## Certifications

The intended use of our products requires the maximum reliability and quality.

To ensure the highest level of quality, MAVIG applies a consistent quality management system in accordance with

### DIN EN ISO 13485:2016

for medical devices. Our top priority is to provide our customers with high-quality products that are free from defects and delivered on time.

*MAVIG is certified in accordance with DIN EN ISO 13485:2016. The majority of MAVIG products are CE certified: Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices. In addition, we have numerous international certificates.*

## DISTRIBUTION WORLDWIDE



### Protective Materials – Inside

The quality demands on X-ray protective clothing are now greater than ever. Wearing times of the protective clothing are extended by modern, radiologically supported procedures in diagnostics and treatment. The protection requirement differs widely depending on the intended use.

MAVIG, as the international market leader for radiation protection, offers you a well thought-out variant policy and a sophisticated and wide range of models.

Three different protective materials are used to attenuate X-ray radiation. These are optimally adapted to the required radiation protection with minimal empty weight.

### And Exterior

Smoothness and flexibility are special quality features of MAVIG X-ray protective clothing. In order to further optimise wear comfort for the user, special emphasis is placed in our factory on selective tailoring and top workmanship.

Like our basic material ComforTex® HPMF, the two innovative textiles ComforTex® HPMF Hybrid and Duplex offer safety and protection against electrostatic charge, which could affect the proper functioning of sensitive medical devices.

MAVIG's innovative textiles were developed in accordance with the relevant requirements of DIN EN 13795-1:2019. This series of standards sets vital, reasonable safety requirements for the necessary quality of surgical textiles for the protection of patients and staff from infections.

### Colours and Special Designs

A fresh look, a pleasant feel and comfort for the wearer are the first impressions of the current X-ray protection collection by MAVIG.

These demands are also reflected in the constantly evolving colour palette of our collection. The current range includes a total of 8 colours for the outer materials of ComforTex® HPMF and ComforTex® HPMF Hybrid.

Our new children's design "Happy" is exclusively available in the outer material variant of ComforTex® HPMF.



NEW

# Dental All-round RD639



## Patient All-round Protection for Digital Volume Tomography (DVT)

The RD639 all-round protective apron offers optimum radiation protection in digital volume tomography.

The patient is protected at the front as well as the back with the full lead equivalent of 0.50 mm Pb.

The convenient hook-and-loop fastener on the shoulder allows the apron to be put on comfortably from the side. The circumference can be easily adjusted by means of the hook-and-loop fasteners in the back.

The integrated thyroid protection is height adjustable, so that it does not interfere with the imaging.



### Protection/Lead Equivalent

Standard lead, Leadfree



As standard:  
0.50 mm Pb  
(front and back)

### Outer Material

8 Colours/1 Design  
(see left)



Optional:  
ComforTex® HPMF,  
ComforTex® HPMF Hybrid

### Closure

Convenient hook-and-loop fastener on the shoulder and in the back

### Sizes/Dimensions

Recommended for:

Small  
80.0 x 60.0/60.0 cm  
(Length x Width front/back)

Medium  
80.0 x 70.0/60.0 cm  
(Length x Width front/back)

(for children please use our children's coat RP668 combined with our thyroid shield RD614)

It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.

- Titan
- Blue Admiral
- Regatta
- Curacao
- Lagoon
- Mandarin
- Orchidee
- Baccara
- Design "Happy" (only ComforTex Hybrid)

# Dental Panorama RD635



## Patient X-Ray Apron for Panorama Shots While Standing

The RD635 protective apron for patients offers optimum radiation protection for standing X-ray exposures on panoramic or teleradiographic units.

The protective clothing is particularly comfortable to put on, as it can be individually adjusted to the patient's body circumference with a quick and easy movement.

The closure system in the front prevents parts of the protective clothing from entering the image-relevant area if the clothing is not closed properly. The back lies smooth and flat against the body.



### Protection/Lead Equivalent

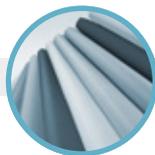
Standard lead,  
Leadfree



As standard:  
0.50 mm Pb  
(front and back)

### Outer Material

8 Colours/1 Design  
(see left, page 4)



Optional:  
ComforTex® HPMF,  
ComforTex® HPMF Hybrid

### Closure

Convenient hook-and-loop  
fastener in the front

### Sizes/Dimensions

Recommended for:

Adults  
Front: 80.0 x 60.0 cm (L x W)

Children  
Front: 60.0 x 45.0 cm (L x W)

### Accessory

Thyroid/sternum protection  
for patients (page 8)





# Dental Chair RD642



## Patient X-Ray Apron for X-Rays in a Seated Position

The MAVIG patient protective apron RD642, which is used for dental X-rays in a seated position, is flexible and comfortable to wear.

The high-quality hook-and-loop fasteners are conveniently placed in the shoulder area, making it precise, secure and quick to put on and remove.



### Protection/Lead Equivalent

Standard lead,  
Leadfree



As standard:  
0.50 mm Pb  
(front)

### Outer Material

8 Colours/1 Design  
(see left)



Optional:  
ComforTex® HPMF,  
ComforTex® HPMF Hybrid

### Closure

Convenient hook-and-loop  
fastener on the shoulder

### Sizes/Dimensions

Recommended for:

Adults  
Front: 80.0 x 60.0 cm (L x W)

Children  
Front: 60.0 x 45.0 cm (L x W)

### Accessory

Thyroid/sternum protection  
for patients (page 8)



*It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.*



# Dental Bicolour RD644



## Patient X-Ray Apron with Thyroid Protection, for X-Rays in a Seated Position

Just like the classic dental apron (RD642), this model offers high flexibility and wearing comfort.

In addition to the large-area protection up to the gonads, the thyroid gland is also covered when taking X-rays of the seated patient.

The practical hook-and-loop fastener in the back of the neck of the thyroid protection collar ensures a snug, secure and quick fit.

Loops on the back allow an easy attachment to the dental chair.



### CAN BE USED ON BOTH SIDES

Model RD644 is designed as a reversible X-ray apron for patients.

The design thus allows you to choose between a one-colour or two-colour model.

Two-colour combinations are available in "Curacao with Orchidee" and "Blue Admiral with Baccara".

### Protection/Lead Equivalent

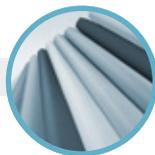
Standard lead,  
Leadfree



As standard:  
0.50 mm Pb  
(front)

### Outer Material

8 Colours/1 Design  
(see left, page 6)



Optional:  
ComforTex® HPMF,  
ComforTex® HPMF Hybrid

### Closure

Convenient hook-and-loop fastener in the back of the neck, plus loops on the back for attachment to the chair

### Sizes/Dimensions

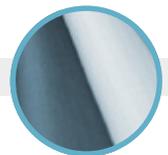
Recommended for:

Adults  
Front: 80.0 x 60.0 cm (L x W)

Children  
Front: 60.0 x 45.0 cm (L x W)

### Optional

Also available in two-colour design



Optional:  
Curacao with Orchidee or  
Blue Admiral with Baccara



# Model RD614

Thyroid & Sternum Protection,  
Suitable for Models RD635 & RD642

## Thyroid and Sternum Protection for Patients

The thyroid is a radiation-sensitive organ of the human body and therefore in particular need of protection.

The MAVIG thyroid sternum protection for patients is optimally cut and has the best fit, and, of course, it also takes all radiation protection aspects into account.

An uncomplicated magnetic or hook-and-loop fastener, which can also be replaced as an option, provides sufficient scope for adjustment.



Children Size  
in Design Happy



With normal  
hook-and-loop fastener



With uncomplicated  
magnetic closure



With exchangeable  
hook-and-loop fastener

### Protection/Lead Equivalent

Standard lead,  
Leadfree



As standard:  
0.50 mm Pb

### Outer Material

8 Colours/1 Design  
(see left)



Optional:  
ComforTex® HPMF,  
ComforTex® HPMF Hybrid

### Sizes According to Fastener Type

Recommended for:

**Magnetic/hook-and-loop fastener:**  
Adults Standard size fits  
neck sizes of 32 - 45 cm  
Children Standard size fits  
neck sizes of 28 - 36 cm

**Exchangeable hook-and-loop fastener:**  
Adults Standard size fits  
neck sizes of 37 - 50 cm  
Children Standard size fits  
neck sizes of 28 - 36 cm

### Accessories/Replacement

Hygienic cover  
Embroidery



Spare Hook-and-loop fastener  
(Adjustment  
via snap buttons)

It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.



# Classic<sup>Mini</sup> RP668

## Children's All-round Protection Coat



- ✓ High quality, flexible NovaLite material with lead equivalent values of 0.50 mm Pb in the front and 0.25 mm Pb in the back
- ✓ Ideal fit for children
- ✓ Time-saving hook-and-loop fasteners
- ✓ Type testing and certification in accordance with (EU) 2016/425 and (EU) 2017/745, as well as IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016



Fig.: ComforTex HPMF, Orchidee

This model provides practical all-round protection for your little patients.

Children's X-ray protection, in particular, must be easy to put on and take off. Small patients rarely have enough patience for long actions. Therefore our RP668 children's coat can be adjusted quickly and closed securely using the hook-and-loop fasteners in the front.

Children's X-ray protection is manufactured by MAVIG with the innovative NovaLite radiation protection material to achieve the best possible weight ratio and thus impose only the most necessary physical strain on the children.



### Protective Material

NovaLite

### Lead Equivalent Values

Front: 0.50 mm Pb  
Back: 0.25 mm Pb

### Outer Material

ComforTex® HPMF

### Colours

8 Colours/1 Design (see left, page 8)

### Sizes

Recommended for:

#### SMALL

Length: 60 cm  
Hip circumference: 68 - 75 cm  
for children aged approx. 3 - 5 years

#### MEDIUM

Length: 80 cm  
Hip circumference: 76 - 83 cm  
for children aged approx. 6 - 8 years

#### LARGE

Length: 84 cm  
Hip circumference: 84 - 95 cm  
for children aged approx. 9 - 12 years

### Accessory

**RD614 - Thyroid/sternum protection for small patients**



*It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.*



# Basic RA640



NEW: Optionally available with temperature regulating Outlast inlay material.

- ✓ Ideal fit, maximum comfort for the wearer
- ✓ Ideal for short and infrequent wear
- ✓ Soft shoulder pads as standard equipment
- ✓ Various closure types to choose from
- ✓ Type testing and certification in accordance with (EU) 2016/425, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

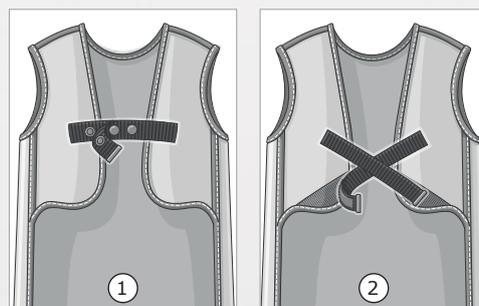


## Front Protection Apron, For Medical Personnel

The basic RA640 model has proved effective for years and is used as a front protection usually for short and rare wearing times in conventional X-ray situations without fluoroscopy.

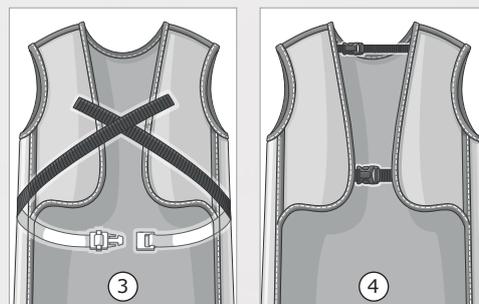
For model RA640 it is also possible to choose whether protection of 0.25 mm Pb should be maintained in the back wings or dispensed with to reduce the weight of the apron.

We offer different closure systems for this series of aprons. Choose your favourite:



Snap fastener closure

Crossband closure



Strap closure

Snap buckle closure



Crossband (KB) in the back

Fig.: ComforTex HPMF, Curacao

<b>Protective Material</b>	NovaLite, Leadfree or Standard lead		<b>Lead Equivalent Values</b>		Fron: 0.25 mm Pb, 0.35 mm Pb, or 0.50 mm Pb			Back: 0.25 mm Pb or without protection
<b>Outer Material</b>	ComforTex® HPMF, ComforTex® HPMF Hybrid							
<b>Colours</b>	8 Colours (see left)							
<b>Type of Closure</b>	You can choose: Snap Fasteners (DK), Crossbands (KB), Straps & Snap Buckle (GB), or Snap Buckles (SV)							
<b>Sizes*</b>	<b>XS</b>	<b>S</b>	<b>M</b>	<b>L</b>	<b>XL</b>	<b>XXL</b>	<b>3XL</b>	
Chest Girth	≤ 84 cm	85 - 95 cm	96 - 106 cm	107 - 117 cm	118 - 128 cm	129 - 139 cm	140 - 150 cm	
Waist-/Hip Girth	≤ 91 cm	92 - 102 cm	103 - 112 cm	113 - 123 cm	124 - 134 cm	135 - 145 cm	146 - 156 cm	
<b>Lengths</b>	<b>90 cm</b>	<b>100 cm</b>	<b>110 cm</b>	<b>120 cm</b>	<b>130 cm</b>	<b>140 cm</b>		
Recommended height	150 - 160 cm	160 - 170 cm	170 - 180 cm	175 - 190 cm	185 - 195 cm	195 - 205 cm		
<b>Accessory</b>	<b>RA614 - Thyroid/sternum protection for medical personnel</b>							

\* The size depends on the girth of the chest, waist, or hip, depending on which of the three measurements is the largest.

# Storage, On Site and Mobile X-Ray Protection

## Wall System AW412

For one dental or panoramic apron

With this practical wall system, your radiation protection product is always at hand, stored carefully and in a space-saving manner.

- ✔ Functional metal construction
- ✔ For one radiation protection product
- 140 x 500 x 160 mm (H x W x D)
- Lacquered in the colour "medico-white" (RAL 9002)
- Max. 10.0 kg weight capacity
- Empty weight: 1.5 kg



## Mobile X-Ray Protective Shields

For a flexible use



In order to avoid being a disturbing factor in the room, all requirements of equipment and procedural methodology of the operation room as well as all demands of the personnel have to be taken into consideration during the conception and development of a mobile shield.

MAVIG produces mobile shields with modern protective materials in a variety of options. Of course, we also welcome specific needs of our clients in addition to our standard offerings.

## Protective Curtains

Leading technology is manifested in detail

Our engineering and design concepts have allowed us to conquer the heavy weight of the curtains as well as to meet the stringent requirements for radiation protection.

At MAVIG, you will encounter a well-versed team, competent in the areas of radiation protection installations, system technology, and department planning.

Faultless radiation protection, attractive appearance, and functional installation will lead to the desired ideal result.





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