



## **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 Plus 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 new range includes a total of eight colours for the outer materials of ComforTex® HPMF and ComforTex® HPMF Hybrid.

Our new children's design "Happy" as well as the design pattern "Nautilus" are both exclusively available in the outer material variant of ComforTex® HPMF Plus.



# RD635

# RD642



## Patient X-Ray Protective Apron

For Panorama Shots While Standing

The RD635 protective apron for patients offers optimum radiation protection for standing X-ray exposures on panoramic or telerradiographic units and for digital volume tomography (DVT).

The protective clothing is particularly convenient to put on because it can be individually adjusted to the girth of the respective patient with a flick of the wrist.

The front-mounted fastening system prevents parts of the protective clothing from entering the image-relevant area due to it being closed inaccurately. The back lies smooth and flat against the body.

## Patient X-Ray Protective 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.

<b>Material</b>	Standard lead or Leadfree
<b>Lead Equivalent</b>	0.50 mmPb
<b>Outer Material</b>	ComforTex® HPMF / ComforTex® HPMF Plus (designs only)
<b>Colours</b>	Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or designs: Happy, Nautilus
<b>Closure</b>	Practical hook & burr closure on the front
<b>Sizes</b>	RD6355E – for adults / Front: 90 x 60 cm (L x W) RD6355K – for children / Front: 70 x 45 cm (L x W)

<b>Material</b>	Standard lead or Leadfree
<b>Lead Equivalent</b>	0.50 mmPb
<b>Outer Material</b>	ComforTex® HPMF / ComforTex® HPMF Plus (designs only)
<b>Colours</b>	Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or designs: Happy, Nautilus
<b>Closure</b>	Practical hook & burr fastener on the back
<b>Sizes</b>	RD6425E – for adults / Front: 90 x 60 cm (L x W) RD6425K – for children / Front: 70 x 45 cm (L x W)



“Happy” & “Nautilus”  
(Available in other sizes only)

# RD644

# RD614



**CAN BE USED ON BOTH SIDES**

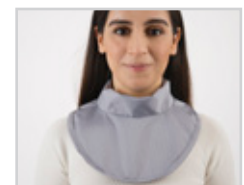
Loops on the back allow easy attachment to the dentist's chair.



With interchangeable hook-and-loop fastener



Children's size in Happy design



Available optional hygienic cover

## Patient X-Ray Protective 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 at the back of the neck on the thyroid protection collar ensures a snug, secure and quick fit.

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\*.

## Thyroid Shield

For patients – suitable for models RD635 & RD642

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.

<b>Material</b>	Standard lead or Leadfree
<b>Lead Equivalent</b>	0.50 mmPb
<b>Outer Material</b>	ComforTex® HPMF / ComforTex® HPMF Plus (designs only)
<b>Colours</b>	Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or designs: Happy, Nautilus
<b>Closure</b>	Practical hook & burr fastener on the back of the neck
<b>Sizes</b>	RD6445E – for adults / Front: 90 x 60 cm (L x W) RD6445K – for children / Front: 70 x 45 cm (L x W)

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

<b>Material</b>	Standard lead or Leadfree
<b>Lead Equivalent</b>	0.50 mmPb
<b>Outer Material</b>	ComforTex® HPMF / ComforTex® HPMF Plus (designs only)
<b>Colours</b>	Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or designs: Happy, Nautilus
<b>Closure</b>	Practical hook & burr fastener (KL/AK) or magnetic closure (MA)
<b>Sizes</b>	RD6145E KL – for adults, collar sizes: 32 - 45 cm RD6145E AK/MA – for adults, collar sizes: 37 - 50 cm RD6145K all models – for children, collar sizes: 28 - 36 cm

\* NOTE: In order to meet hygiene requirements, we recommend that you use our washable hygienic cover made from special ComforTex® MF material "Titan" colour.



# RA640



Front View



Back with Crossbands (KB)



Snap Fasteners (DK)



Straps & Snap Buckle (GB)



Snap Buckles (SV)

## BASIC Front Protective 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 mmPb should be maintained in the back wings or dispensed with to reduce the weight of the apron.

- High-quality, flexible standard lead material with lead equivalent values of 0.25 mmPb, 0.35 mmPb or 0.50 mmPb
- Ideal fit, maximum comfort for the wearer
- Ideal for short and infrequent wear
- Shoulder pads and preparation for adaptable embroidery as standard equipment
- 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

<b>Protective Material</b>	NovaLite, Leadfree, or Standard lead		<b>Lead Equivalent Values</b>	Front, optionally:	0.25 mmPb, 0.35 mmPb, or 0.50 mmPb		
				Back, optionally:	0.25 mmPb or without protection		
<b>Outer Material</b>	ComforTex® HPMF, ComforTex® HPMF Hybrid, ComforTex® HPMF Plus (Nautilus design only)						
<b>Colours</b>	Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or design: Nautilus						
<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	

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



## Storage Systems

### Wall System AW412

For one dental or panoramic apron

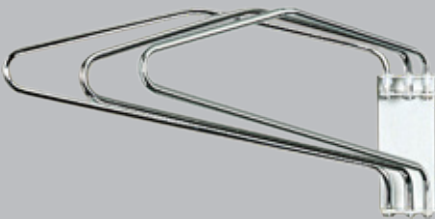


Always ready at hand, your dental apron (front or panoramic apron) is stored safely with minimum space required thanks to this practical wall system.

- Functional metal construction
- Painted in medico-white (RAL 9002)

### Wall System AW421

For up to three X-ray protective aprons



Depending on the version, the wall system can store one, two, or three garments.

You can spread the hangers apart 180° as well as fold a maximum of two hangers to one side, flat against the wall.

- Functional metal construction
- 1, 2, or 3 chromeplated swivel bars
- Ground plate painted in medico-white (RAL 9002)

## On Site X-Ray Protection

### 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.

### 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.



### MAVIG GmbH Head Office

Stahlgruberring 5  
81803 Munich  
Germany

P.O. Box 82 03 62  
81829 Munich  
Germany

Phone +49 (0) 89 420 96 0  
Fax +49 (0) 89 420 96 200  
E-mail info@mavig.com

### GLOBAL MAVIG LOCATIONS

#### Nordic & Baltic countries

##### MAVIG Nordic

Stockholm  
Sweden

Phone +46 (0) 722 25 25 68  
E-mail larsson@mavig.com

#### Benelux, GB, Ireland

##### MAVIG B.V.

Mercuriusweg 86  
2516AW The Hague  
The Netherlands

Phone +31 (0) 70 33 11 688  
Mobile +31 (0) 61 595 43 48  
E-mail simmonds@mavig.nl

#### France

##### MAVIG France SARL

66, Ave. des Champs Elysées  
F-75008 Paris  
France

Phone +33 (0)1 30 59 46 23  
Fax +33 (0)1 30 59 46 23  
E-mail info@mavig.fr

#### South-East Europe

##### MAVIG South-East Europe

Ljubljana  
Slovenia

Phone +386 (40) 6 33 900  
E-mail dejak@mavig.com

#### China

##### MAVIG Healthcare Beijing Co., Ltd.

Room #1010, Floor 9, #609 Wang Jing Yuan  
Chaoyang District  
Beijing 100102, P.R.China

Phone +86 - 10 - 64 78 19 21  
Fax +86 - 10 - 64 78 19 21  
Mobile +86 - 13 70 122 85 86  
E-mail zhang@mavig.com

### FOREIGN OFFICES

#### USA & Canada

Ti-Ba Enterprises, INC.

25 Hytec Circle  
Rochester, NY 14606  
USA

Phone +1 (1) 585 247 1212  
Fax +1 (1) 585 247 1395  
E-mail mavigusteam@mavig.com

#### Middle East & North Africa

Mena Medical Development

Ashrafieh – Adlieh Square – Alfaras St.  
- Alboustany Building, 5th floor  
Beirut  
Lebanon

Phone +961 14 23 499  
Fax +961 14 26 499  
E-mail mavig@mena-md.com

#### Russian Federation

AO Sante Medical Systems

Novodmitrovskaya 2, Bld.1  
127015 Moscow  
Russia

Phone +7 499 551 55 73/75  
E-mail info@sante.ru

# www.mavig.com