Dental Medicine Safety & Comfort
X-Ray Protection for Patients and Personnel
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 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.
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.
X-RAY PROTECTION IN DENTAL MEDICINE

**RD635**

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 teleradiographic 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.

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

**RD642**

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.

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Standard lead or Leadfree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalent</td>
<td>0.50 mmPb</td>
</tr>
<tr>
<td>Outer Material</td>
<td>ComforTex® HPMF / ComforTex® HPMF Plus (designs only)</td>
</tr>
<tr>
<td>Colours</td>
<td>Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or designs: Happy, Nautilus</td>
</tr>
<tr>
<td>Closure</td>
<td>Practical hook &amp; burr fastener on the back of the neck</td>
</tr>
</tbody>
</table>
| Sizes | RD644SE – for adults / Front: 90 x 60 cm (L x W)  
RD644SK – for children / Front: 70 x 45 cm (L x W) |

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

* 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

**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.

<table>
<thead>
<tr>
<th>Protective Material</th>
<th>Lead Equivalent Values</th>
<th>Sizes*</th>
</tr>
</thead>
<tbody>
<tr>
<td>NovaLite, Leadfree, or Standard lead</td>
<td>Front, optionally: 0.25 mmPb, 0.35 mmPb, or 0.50 mmPb</td>
<td>XS: ≤ 84 cm, S: 85 - 95 cm, M: 96 - 106 cm, L: 107 - 117 cm, XL: 118 - 128 cm, XXL: 129 - 139 cm, 3XL: 140 - 150 cm</td>
</tr>
<tr>
<td></td>
<td>Back, optionally: 0.25 mmPb or without protection</td>
<td></td>
</tr>
<tr>
<td>Outer Material</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ComforTex® HPMF, ComforTex® HPMF Hybrid, ComforTex® HPMF Plus (Nautilus design only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titan, Blue Admiral, Regatta, Curacao, Lagoon, Mandarin, Orchidee, Baccara, or design: Nautilus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Closure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>You can choose: Snap Fasteners (DK), Crossbands (KB), Straps &amp; Snap Buckle (GB), or Snap Buckles (SV)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protective Material</th>
<th>Lead Equivalent Values</th>
<th>Sizes*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>XS: ≤ 91 cm, S: 92 - 102 cm, M: 103 - 112 cm, L: 113 - 123 cm, XL: 124 - 134 cm, XXL: 135 - 145 cm, 3XL: 146 - 156 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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