



# Product Portfolio 2011

**MAVIG**



# Tradition and Innovation

## COMPANY HISTORY

The manufacturing and trading company HÄNEL was founded in 1921.

The young company devoted itself to creating solutions for employee protection in high-risk work environments.

Even then, the family held company strived to create a model of today's corporate philosophy: The customer is the focal point, and their satisfaction is top priority.

The large-scale production of radiation and welder protective products came to the international market in the 1930s, and HÄNEL became an international leader with its MAVIG products.

In 1983, MAVIG created the foundation of the company's future with its new factory facility in the commercial park Moosfeld in Munich. The modern production and administration facilities were extended to over 5000 m<sup>2</sup>, offering adequate space for further development and innovation.

The complete identification of the company and product became unified in 1999 by converting the company from Hänel GmbH into MAVIG GmbH.



## THE FUTURE

For almost 90 years, MAVIG has been successful worldwide as an independent innovator and manufacturer. MAVIG medical products stand for quality and dependability, which fulfill the highest international standards.

It is both our assurance and incentive that we devote our energy and expertise to further develop and market high-quality, customer orientated solutions. MAVIG invests a vast number of resources in the optimizing of existing products, as well as the development of tomorrow's next generation.

## QUALITY MANAGEMENT AND CERTIFICATION – 100% QUALITY IN THE FIELD OF WORKERS' SAFETY

MAVIG is certified according to ISO 13485-2003, as well as QMS according to EU-Directive 89/686/EEC (Personal Protection).

All MAVIG products are CE certified and in most cases UL listed. MAVIG was the first company to CE certify all of its personal protection products.

---

# General Terms of Business

All sales transactions are done in EURO. Unless otherwise stated, prices of goods included packing, and are FCA MAVIG, Munich (Incoterms 2010). In order to protect the interest of the purchaser, we recommend to obtain insurance to cover against loss, damage, and or theft of goods in transit.

Returned merchandise will not be accepted without prior written notice. Any merchandise received by MAVIG without written authorization shall be refused and returned to sender.

Returns are not accepted for the following items:

**Stationary or Channel grids**  
**Male or female gonad protection**  
**Lead glass**  
**Protective eye ware**  
**Protective gloves**

Special orders are sold on a non-refundable basis. Aprons ordered without colour specification will be supplied in the standard colour listed for each model. All people authorized to use MAVIG products should be trained in their correct use and storage, as well as the dangers involved in exposure to radiation. The proper selection and use of MAVIG products are the sole responsibility of the purchaser. The purchase must only be made by a person competent in determining the requirements of X-Ray protection and the particular applications in which they will be used.

No warranty or guarantee, either expressed or implied, is extended to cover personal injury or damage which may result due to improper use, storage, handling, or unauthorized use of MAVIG products. This warranty is in lieu of all warranties expressed or implied, including warranties of merchantability and fitness for purpose.

We reserve the right to make technical changes to our products or the content of the catalogue.

# Table of Contents

	Company Profile	3
	Table of Contents	5
	<b>Portegra2 System</b>	6-18
	Portegra2 System Overview	6-7
<b>TS</b>	Ceiling Tracks	9
	Ceiling Columns with Carriage	9
	Fixed Point Ceiling Columns	10
	Wall Mount	10
	Mounting Plate	10
<b>OT</b>	Radiation Protection Shields with Suspension Arm	11
<b>GD</b>	LCD Monitor Holder	12
<b>LE</b>	Lamp/Arm Combinations for Portegra2 Systems	13
<b>PTZ</b>	Complete Portegra2 Systems	14-15
	Central Axis Column	16
	Lamp with Spring Arm for Central Axis	17
	Individual Portegra2 Components	18
<b>GD</b>	<b>Monitor Holders</b>	19-29
	Introduction	19
	Monitor Holder Overview Chart	20-21
	Model GD60	23
	Model 65	24
	Model GD72/76	25
	Model GD70/75	26
	Model 4020/4021	27
	Model 4210/4220	27
	MediArms	28
	Model MD70	29
<b>UT</b>	<b>Lower Body Protector</b>	30-31
	Introduction	30
	Model UT30	31
	Model UT60	31
	Model UT65	31
	Model UT67	31
	Model UT68	31
	Model UT69	31
<b>WD</b>	<b>Mobile Shields</b>	32-35
	Introduction	32
	Model WD257	33
	Model WD260	33
	Model WD302	33
	Model WD304	33
	Model WD300	34
	Model WD306	34
	Model WD308	34
	Model WD254	35
	Model WD255	35
	Model WD258	35
<b>VH</b>	<b>Protective Curtains</b>	36-37
<b>DGS</b>	<b>Observation Windows</b>	38-39
<b>GR</b>	<b>Lead Glass</b>	40-41

# PORTEGRA2 a Modular System for Numerous Applications

Components can be assembled like building blocks and can be tailored to your individual requirements. Of course, MAVIG can also offer customer specific solutions.

## PORTEGRA<sup>2</sup>



Portegra2 extension spring arm combination

Page 18

### Lamp suspension arm combinations

Page 13



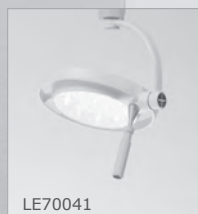
LE70050, -51, -52



LE70069



LE70062, -64



LE70041



LE70043



LE70044, -45

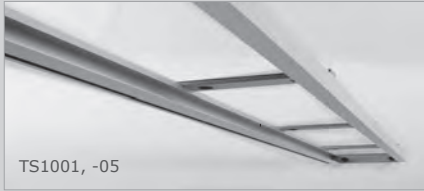


LE70072, -74, -78

# As a Mobile Solution or Stationary Installation



TS1002, -06



TS1001, -05

Ceiling tracks and accessories

Page 9



TS1001, -05



Installation elements

Page 10



TS2031, -32



TS1501, -02, -03

Ceiling columns with trolleys

Page 9




TS2020, -21, -22, -23



TS2001, -02, -03, -04, -05

Ceiling columns for stationary installation

Page 10

 **MAVIG columns** are equipped standard with an electrical pin.  
If a solution with two electrical pins is necessary, a special design with the twin columns is possible.

## Radiation protective shields with suspension arm

Page 11



OT50001



OT50002



OT50003



OT50010



OT50011



OT80001, -02, -03

## LCD monitor and equipment holders

Page 12



GD4020



GD4021



GD4210



GD4220



# The New Worldwide Standard for Equipment Support and Radiation Protection Systems – PORTEGRA2



**PORTEGRA2**  
designed by MAVIG

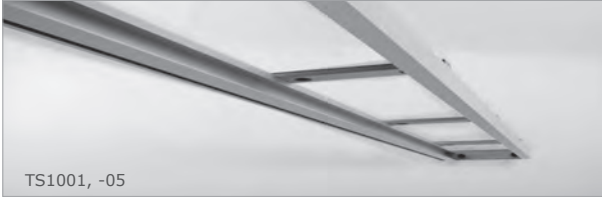
PATENTED by **MAVIG**

- Ceiling anchor
- Brake mechanism for track-guided systems
- The MAVIG spring arm
- Internal safety spring
- The safety notch

**SAFETY FEATURES**

- Single piece, formed-steel ceiling column
- Strengthened wall thickness at the mounting post
- Maximum load capacity of 18 kg (40 lbs) on each mounting post
- The steel extension/spring arm ensures high stability against collisions
- UL listing and CE certification
- User-friendly, smooth edged design
- Allows for different loads levels
- Easy spring-arm tension adjustment
- Life Cycle Testing

## CEILING TRACKS



TS1001, -05

TS1002, -06

TS10B04

MAVIG has set a standard for practices and hospitals in ceiling support and radiation protective systems. The ceiling track is suited for universal use of ceiling guided accessories, including radiation protective shields, lamps, injectors, monitors, and other equipment.

- The unique structure profile ensures smooth running of the carriage.
- With little force, the installed system can be moved and positioned.
- The carriage glides smoothly, even after many years of routine use.
- Adjustable cross-struts simplify the system installation

Lengths: Standard lengths of 2500 mm (98 in) and 4000 mm (157 in)  
Other lengths available upon request.

Article-No.	Description
<b>TS1001</b>	Versatile ceiling track width 335 mm, length = 2500 mm
<b>TS1002</b>	Versatile ceiling track width 335 mm, length = 2500 mm, with cable spooler
<b>TS1005</b>	Versatile ceiling track width 335 mm, length = 4000 mm
<b>TS1006</b>	Versatile ceiling track width 335 mm, length = 4000 mm, with cable spooler
<b>TS10B06</b>	Cable spooler retro-fit for track length = 2500 mm
<b>TS10B03</b>	Retro cable spooler fitting kit for track length = 4000 mm
<b>TS10B04</b>	Cable holders for the cable track, 3 piece set
<b>TS10B04/5</b>	Cable holders for the cable track, 5 piece set

## VERSATILE CEILING TRACK COLUMNS



### MAVIG-Columns for the Portegra2-System

Solid construction for maximum safety. Many years of development has led to MAVIG's unique steel columns. The proven construction, sturdy design, and numerous tests ensure the highest level of safety available. The patented brake mechanism is a standard for all support systems with a carriage. The track holds the carriage at a fixed level inside the ceiling track, which provides additional safety during its use.

### 360° column with carriage (trolley)

- Lower pin allows 360° rotation
- Upper fixed pin is electric with 330° rotation
- Each pin has a load capacity of 18 kg (40 lbs)

### Twin column with carriage (trolley)

- One electric pin and one standard pin at the same height
- Each pin offers a 330° rotation
- Each pin has a load capacity of 18 kg (40 lbs)
- Second electric pin available upon request

Article-No.	Description
<b>TS2031</b>	360° column with carriage, length = 800 mm
<b>TS2032</b>	360° column with carriage, length = 570 mm
<b>TS1501</b>	Twin column with carriage, length = 800 mm
<b>TS1502</b>	Twin column with carriage, length = 580 mm
<b>TS1503</b>	Twin column with carriage, length = 460 mm

TS

OT

GD

LE

PTZ

UT

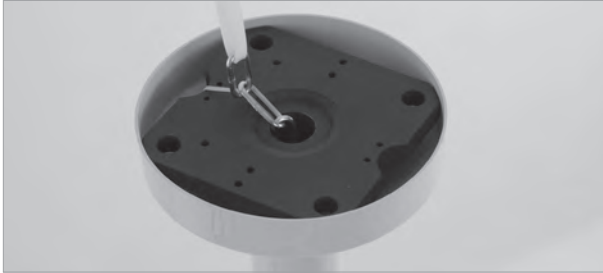
WD

VH

DGS

GR

## COLUMNS FOR STATIONARY MOUNTING



### MAVIG-Columns for the Portegra2-System

Solid construction for maximum safety. Many years of development has led to MAVIG's unique steel columns. The proven construction, sturdy design, and numerous tests ensure the highest level of safety available. The patented ceiling anchor gives an extra level of protection, stopping the system from falling in the event that the mounting comes away from the ceiling.

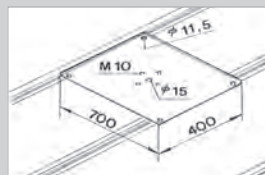
### Twin column stationary

- One electric pin and one standard pin at the same height
- Each pin offers a 330° rotation
- Each pin has a load capacity of 18 kg (40 lbs)
- Second electric pin available upon request

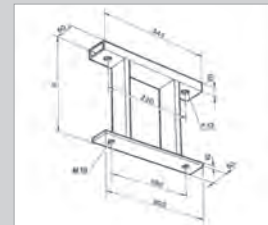
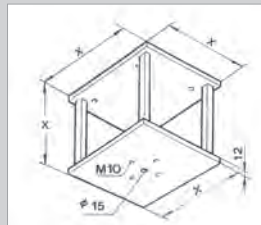
### 360° column stationary

- Lower pin allows 360° rotation
- Upper fixed pin is electric with 330° rotation
- Each pin has a load capacity of 18 kg (40 lbs)

Article-No.	Description
<b>TS2020</b>	360° column stationary, length = 1000 mm
<b>TS2021</b>	360° column stationary, length = 850 mm
<b>TS2022</b>	360° column stationary, length = 650 mm
<b>TS2023</b>	360° column stationary, length = 580 mm
<b>TS2001</b>	Twin column stationary, length = 1000 mm
<b>TS2002</b>	Twin column stationary, length = 850 mm
<b>TS2003</b>	Twin column stationary, length = 580 mm
<b>TS2004</b>	Twin column stationary, length = 650 mm
<b>TS2005</b>	Twin column stationary, length = 460 mm
<b>E-TS20B05</b>	Electrical insulating kit for all stationary mounting columns
<b>TS1520</b>	Mounting plate for stationary column
<b>TS1515</b>	Wall Mount for Portegra2



When mounting a Portegra2 system to a suspended ceiling, we can offer custom made support structures. Prices vary, depending on distance between the suspended ceiling and the solid ceiling above. Please contact us for offers.



## EXTENSION/SPRING ARM FOR EQUIPMENT WITH UP TO 18 KG

### The MAVIG **PORTEGRA2** Arm provides maximum flexibility

Protective shields, lamps, monitors, injectors and other accessories can be attached and positioned as required. The extension/spring arm combination offers a large range and different load bearing categories:

- The far reaching capacity with an extension arm of 75 or 95 cm and a spring arm of 91 cm
- Multiple load bearing categories: 1 – 3.5 kg, 3.5 – 7 kg, 7 – 12 kg, 12 – 18 kg
- Shock absorbing, plastic covers to protect against collisions
- Internal steel safety cable provides extra protection even after many years of service
- Connection safety cover, so that connection element can not become loose

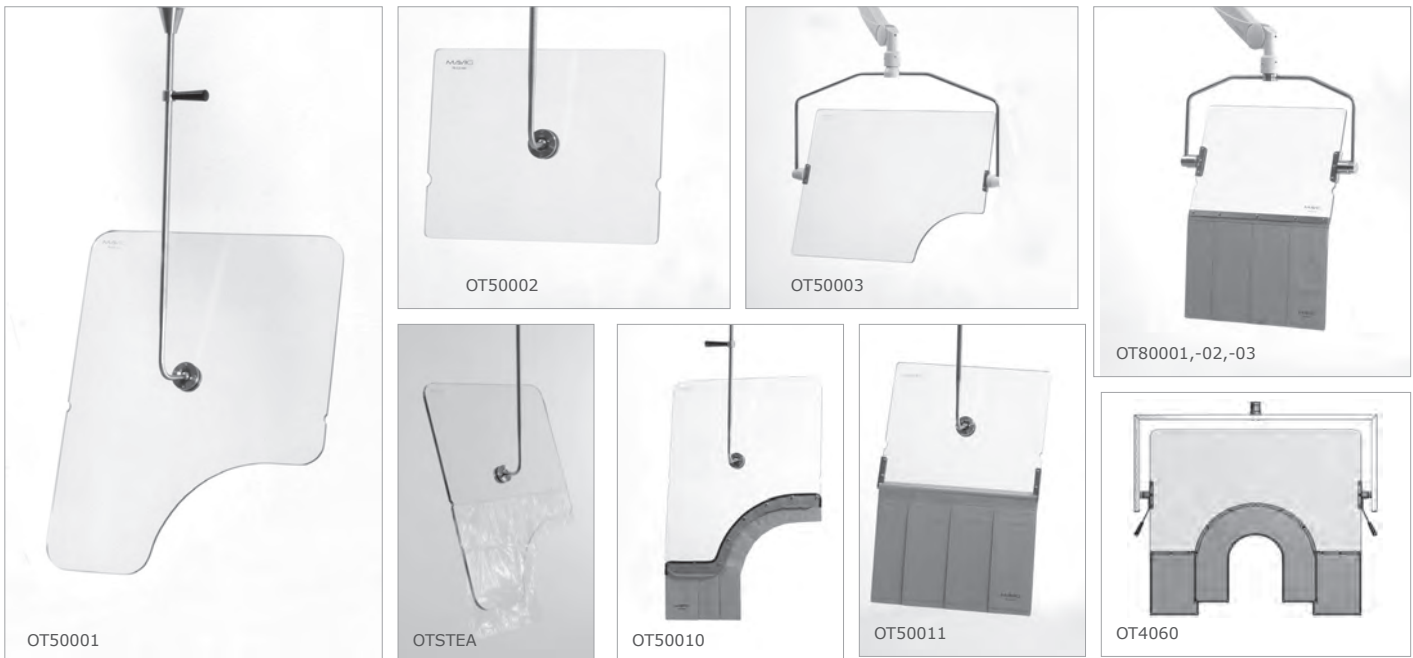
MAVIG equipment is always delivered with a suitable and adjusted extension/spring arm combination.

Detailed informations or replacement arms for Portegra2 systems are listed on page 18.

## RADIATION PROTECTION SHIELD WITH SUSPENSION ARM

### Easy and Simple Operation for Safe Radiation Protection

The lead acrylic radiation protective shields have a lead equivalent of 0.50 mm. Not only do they provide optimized protection, their elaborate safety features are also very impressive. Our shields provide excellent high-optical transmittance. Rounded corners and edges and shatter-proof materials minimize the risk of injury. In an emergency, the shields can be moved out of the way quickly and easily.



Article-No.	Description
<b>OT50001</b>	Dimensions: 600 x 760 mm, Pb 0.50 mm, guided by a removable, height adjustable handle, transparent acrylic shield with a patient-contour cut out for positioning over the patient (PTZ6290/6272)
<b>OTSTEA1</b>	Sterile disposable transparent covers for OT50001, 50 pcs
<b>OT50002</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, guided by removable, height adjustable handle, transparent acrylic shield (PTZ6294/6274)
<b>OT50003</b>	Dimensions: 760 x 600 mm, Pb 0.50 mm, laterally guided, transparent acrylic shield with a patient contour cut-out for positioning over the patient (PTZ6272/SHB)
<b>OT50010</b>	Dimensions: 600 x 760 mm, Pb 0.50 mm, same as OT50001, but with flexible lead rubber panels in hygienic covers. (PTZ6290/6272)
<b>OT50011</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, same as OT50002, but with flexible lead rubber panels in hygienic covers. (PTZ6294/6274)
<b>OT80001</b>	Dimensions: 400 x 300 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers. (PTZ6262 A)
<b>OT80002</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers. (PTZ6262 A)
<b>OT80003</b>	Dimensions: 760 x 350 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers. (PTZ6262 A)
<b>OT4060</b>	Debrun Shield contains a track, ceiling column, and lead acrylic shield, 1220 x 780 mm with a contour cut-out and lead rubber panels with a Pb value of 0.50 mm

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

## LCD MONITOR SUPPORT, COMPATIBLE WITH THE PORTEGRA2-SYSTEM



GD4020



GD4021

### GD4020 and GD4021

Flexible holder for one LCD display. Double jointed hinge to allow a wide range of different viewing angles. In case of minor collisions, the monitor moves to the side and repositions itself. External cabling. Maximum weight load is **10 kg / 22 lbs.**



Article-No. Description

**GD4020** Adjustable, single LCD holder for VESA adapter 100 mm

**GD4021** Adjustable, single LCD holder for VESA adapter 100 mm with lateral handle



GD4210

GD4220



GD4220

### GD4210 and 4220

Monitor support for one or two LCD displays. External cabling. Maximum weight load is **15 kg / 33 lbs.**



Article-No. Description

**GD4210** Portegra2 Monitor support Mono for VESA adapter 75 mm or 100 mm

**GD4220** Portegra2 Monitor support Dual for VESA adapter 100 mm



GD75



### GD75 and GD76

The economic solution for an existing track system with 335 mm width. Due to their slim design and lighter weight they can be easily used with the Portegra2 335 tracks. Many functions of the "big" systems are also included, such as a curved horizontal rail for a perfect viewing angle, aligned LCD positioning, and positioning bars.

Maximum weight load for GD75 is 32 kg / 70.5 lbs.  
Maximum weight load for GD76 is 35 kg / 77.1 lbs.

Article-No. Description

**GD7500-1/-2/-3** Monitor support GD75, incl. carrier for 1, 2 or 3 displays, external cabling. Track is not included.

**GD76W-1/-2/-3** Monitor support GD76, incl. carrier for 1, 2 or 3 displays, internal cabling. Track is not included.

**PORTEGRA2 - LAMP/SUSPENSION ARM**


LE70072, -74, -78

**Modern technology**

The latest advancements enable optimal examination and operating conditions: Enhanced depth illumination, characteristics of daylight, reduction of heat dispersion to an absolute minimum, high-contrast colour reproduction, and recognition of the finest colour nuances are standard with the high quality illumination. Our lamps are NRTL certified and delivered incl. extension-spring arm pre-adjusted to specific weight.



LE70050, -51, -52



LE70050-ST, -51-ST, -52-ST



LE70069



LE70062, -64



LE70067, -68



Video camera

Article-No.

Description

<b>LE70051</b>	Lamp M130F Uniflex R96, with internal transformer (230 V)	50,000 Lux
<b>LE70051-ST</b>	Lamp M130F Uniflex R96, with internal transformer (230 V), with sterilizable handle	50,000 Lux
<b>LE70050</b>	Lamp M130F Uniflex R96, with internal transformer (115 V)	50,000 Lux
<b>LE70050-ST</b>	Lamp M130F Uniflex R96, with internal transformer (115 V), with sterilizable handle	50,000 Lux
<b>LE70052</b>	Lamp M130F Uniflex R96, 24 V	50,000 Lux
<b>LE70052-ST</b>	Lamp M130F Uniflex R96, 24 V, with sterilizable handle	50,000 Lux
<b>LE70069/230</b>	Lamp M2-F, with external transformer (230 V)	90,000 Lux
<b>LE70069/115</b>	Lamp M2-F, with external transformer (115 V)	90,000 Lux
<b>LE70069/24</b>	Lamp M2-F, for 24 V	90,000 Lux
<b>LE70062/230</b>	Lamp M3-F, with external transformer (230 V)	100,000 Lux
<b>LE70062/115</b>	Lamp M3-F, with external transformer (115 V)	100,000 Lux
<b>LE70062/24</b>	Lamp M3-F, for 24 V	100,000 Lux
<b>LE70064/230</b>	Lamp M3-DF, with external transformer (230 V)	130,000 Lux
<b>LE70064/115</b>	Lamp M3-DF, with external transformer (115 V)	130,000 Lux
<b>LE70064/24</b>	Lamp M3-DF, for 24 V	130,000 Lux
<b>LE70068/230</b>	Lamp M3-F, with video system (camera, remote control, cabling) and external transformer (230 V)	100,000 Lux
<b>LE70068/115</b>	Lamp M3-F, with video system (camera, remote control, cabling) and external transformer (115 V)	100,000 Lux
<b>LE70067/230</b>	Lamp M3-DF, with video system (camera, remote control, cabling) and external transformer (230 V)	130,000 Lux
<b>LE70067/115</b>	Lamp M3-DF, with video system (camera, remote control, cabling) and external transformer (115 V)	130,000 Lux
<b>LE70041</b>	M LED120F, focusable LED examination lamp, incl. sterilizable handle, power supply unit	40,000 Lux
<b>LE70043</b>	M LED130F, focusable LED examination lamp, incl. sterilizable handle, power supply unit	60,000 Lux
<b>LE70044</b>	M LED2 SC, single colour LED for examination and small operations, power supply unit & laser pointer	100,000 Lux
<b>LE70045</b>	M LED2 MC, multi colour LED for examination and small operations, power supply unit & laser pointer	100,000 Lux
<b>LE70072</b>	M LED3 SC, single colour surgical LED lamp, power supply unit & laser pointer	130,000 Lux
<b>LE70074</b>	M LED3 MC, multi colour surgical LED lamp, power supply unit & laser pointer	130,000 Lux
<b>LE70078</b>	M LED3 MC VIDEO, multi colour surgical LED lamp, power supply unit & laser pointer, and video system (incl. camera, control board, wiring)	130,000 Lux

## Spare Parts

<b>E-7110092</b>	Single transformer (115 V)
<b>E-7110093</b>	Single transformer (230 V)
<b>E-7110072</b>	Adapter with sterilizable handle for M130F, M2
<b>E-7110081</b>	Sterilizable handle for all MAVIG lamps
<b>E-7110041</b>	Halogen light bulb 22.8 V / 24 V for M130F and M3 (not suitable for M2 or M5)
<b>E-7110094</b>	Power supply unit for lamps LED2, LED3 and LED5
<b>E-7110097</b>	Power supply unit for lamps LED120F and LED130F

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

Halogen

LED

# PORTEGRA2 Complete Systems

## PORTEGRA2 360° – SYSTEM AND TRACK



Article-No. Description

**PTZ-LW360-51-3** OT50001 and Lamp M3-F with 360° ceiling column with carriage, 570 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm

**PTZ-LW360-51-130** OT50001 and Lamp M130 with 360° ceiling column with carriage, 570 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm

**PTZ-LW360-82-3** OT80002 and Lamp M3-F with 360° ceiling column with carriage, 570 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm

**PTZ-LW360-82-130** OT80002 and Lamp M130 with 360° ceiling column with carriage, 570 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm

## PORTEGRA2 360° – STATIONARY SYSTEM



Article-No. Description

**PTZ-F360-51-3** OT50001 and Lamp M3-F with 360° ceiling column, 580 mm long, calibrated suspension arm

**PTZ-F360-51-130** OT50001 and Lamp M130 with 360° ceiling column, 580 mm long, calibrated suspension arm

**PTZ-F360-82-3** OT80002 and Lamp M3-F with 360° ceiling column, 580 mm long, calibrated suspension arm

**PTZ-F360-82-130** OT80002 and Lamp M130 with 360° ceiling column, 580 mm long, calibrated suspension arm

**PORTEGRA2 TWIN – SYSTEM AND TRACK**



Article-No.	Description
<b>PTZ-LWTW-51-3</b>	OT50001 and Lamp M3-F with Twin ceiling column with carriage, 580 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm
<b>PTZ-LWTW-51-130</b>	OT50001 and Lamp M130 with Twin ceiling column with carriage, 580 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm
<b>PTZ-LWTW-82-3</b>	OT80002 and Lamp M3-F with Twin ceiling column with carriage, 580 mm long, Portegra2 track 2.5 m, cable spooler, calibrated suspension arm
<b>PTZ-LWTW-82-130</b>	OT80002 and Lamp M130 with Twin ceiling column with carriage, 580 mm long, Portegra2 track 2.5 m, cable spooler calibrated suspension arm

**PORTEGRA2 TWIN – STATIONARY SYSTEM**



Article-No.	Description
<b>PTZ-FTW-51-3</b>	OT50001 and Lamp M3-F with Twin ceiling column, 580 mm long, calibrated suspension arm
<b>PTZ-FTW-51-130</b>	OT50001 and Lamp M130 with Twin ceiling column, 580 mm long, calibrated suspension arm
<b>PTZ-FTW-82-3</b>	OT80002 and Lamp M3-F with Twin ceiling column, 580 mm long, calibrated suspension arm
<b>PTZ-FTW-82-130</b>	OT80002 and Lamp M130 with Twin ceiling column, 580 mm long, calibrated suspension arm

# CENTRAL AXIS

## CENTRAL AXIS: SUSPENSION SYSTEM FOR EQUIPMENT WITH UP TO 21 KG



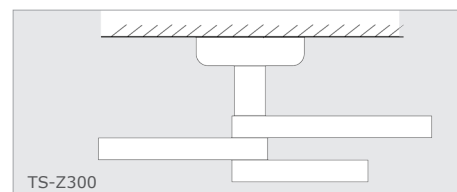
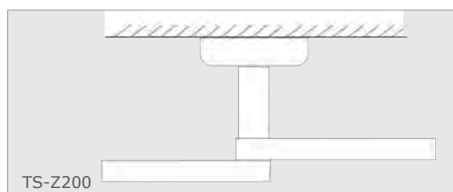
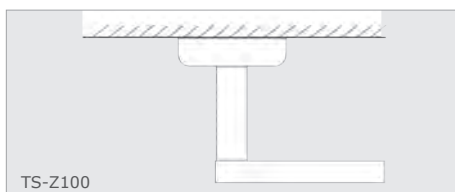
### Central Axis

This suspension system is for equipment with a combined total weight of up to 63 kg. Monitors, OP cameras, and lamps with individual weights of up to 21 kg can now be grouped together on one ceiling column with a central axis. It can support one, two, or three arms with an extension arm sections that can have a maximum length of 1150 mm.

The rotation of the arms can be done without impediment even with electrical equipment due to the specially designed electrical contacts. The Central Axis can be fitted with 3, 5, or 7 prong connections.

Standard extension sizes are 700/850/1000 mm. System includes central column, ceiling cover, and extension arm(s).

Std. length of central column: 250 – 1100 mm



Article-No.	Description
<b>TS-Z100</b>	Central axis with one extention arm
<b>TS-Z200</b>	Central axis with two extention arms
<b>TS-Z300</b>	Central axis with three extention arms
<b>TS-Z1530</b>	Mounting Plate

## MONITOR HOLDERS AND SHIELDS – CENTRAL AXIS/SUSPENSION ARM COMBINATION

Article-No.	Description
<b>GD-Z-4020</b>	Adjustable, single LCD holder for VESA adapter 100 mm, including spring arm
<b>GD-Z-4021</b>	Adjustable, single LCD holder for VESA adapter 100 mm with lateral handle, including spring arm
<b>GD-Z-4210</b>	Portegra2 Monitor support Mono for VESA adapter 75 mm or 100 mm, including spring arm
<b>GD-Z-4220</b>	Portegra2 Monitor support Dual for VESA adapter 100 mm, including spring arm
<b>OT-Z-50001</b>	Dimensions: 600 x 760 mm, Pb 0.50 mm, guided by a removable, height adjustable handle, transparent acrylic shield with a patient-contour cut out for positioning over the patient
<b>OT-Z-50002</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, guided by removable, height adjustable handle, transparent acrylic shield
<b>OT-Z-50003</b>	Dimensions: 760 x 600 mm, Pb 0.50 mm, laterally guided, transparent acrylic shield with a patient contour cut-out for positioning over the patient
<b>OT-Z-50010</b>	Dimensions: 600 x 760 mm, Pb 0.50 mm, same as OT-Z-50001, but with flexible lead rubber panels in hygienic covers
<b>OT-Z-50011</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, same as OT-Z-50002, but with flexible lead rubber panels in hygienic covers
<b>OT-Z-80001</b>	Dimensions: 400 x 300 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers
<b>OT-Z-80002</b>	Dimensions: 500 x 380 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers
<b>OT-Z-80003</b>	Dimensions: 760 x 350 mm, Pb 0.50 mm, transparent acrylic shield, laterally guided with flexible lead rubber panels in hygienic covers

**CENTRAL AXIS - LAMP/SUSPENSION ARM COMBINATIONS**


Our lamps are NRTL certified and delivered incl. extension-spring arm pre-adjusted to specific weight.

Lamps for Portegra2 systems can be found on page 13.

LE-Z-70082

Article-No.	Description	
<b>LE-Z-70051</b>	Lamp M130 Uniflex R96, with internal transformer (230 V)	50,000 Lux
<b>LE-Z-70051-ST</b>	Lamp M130 Uniflex R96, with internal transformer (230 V), with sterilizable handle	50,000 Lux
<b>LE-Z-70050</b>	Lamp M130 Uniflex R96, with internal transformer (115 V)	50,000 Lux
<b>LE-Z-70050-ST</b>	Lamp M130 Uniflex R96, with internal transformer (115 V), with sterilizable handle	50,000 Lux
<b>LE-Z-70052</b>	Lamp M130 Uniflex R96, 24 V	50,000 Lux
<b>LE-Z-70052-ST</b>	Lamp M130 Uniflex R96, 24 V, with sterilizable handle	50,000 Lux
<b>LE-Z-70069/230</b>	Lamp M2-F, with external transformer (230 V)	90,000 Lux
<b>LE-Z-70069/115</b>	Lamp M2-F, with external transformer (115 V)	90,000 Lux
<b>LE-Z-70069/24</b>	Lamp M2-F, for 24 V	90,000 Lux
<b>LE-Z-70062/230</b>	Lamp M3-F, with external transformer (230 V)	100,000 Lux
<b>LE-Z-70062/115</b>	Lamp M3-F, with external transformer (115 V)	100,000 Lux
<b>LE-Z-70062/24</b>	Lamp M3-F, for 24 V	100,000 Lux
<b>LE-Z-70064/230</b>	Lamp M3-DF, with external transformer (230 V)	130,000 Lux
<b>LE-Z-70064/115</b>	Lamp M3-DF, with external transformer (115 V)	130,000 Lux
<b>LE-Z-70064/24</b>	Lamp M3-DF, for 24 V	130,000 Lux
<b>LE-Z-70068/230</b>	Lamp M3-F, with video system (camera, remote control, cabling) and external transformer (230 V)	100,000 Lux
<b>LE-Z-70068/115</b>	Lamp M3-F, with video system (camera, remote control, cabling) and external transformer (115 V)	100,000 Lux
<b>LE-Z-70067/230</b>	Lamp M3-DF, with video system (camera, remote control, cabling) and external transformer (230 V)	130,000 Lux
<b>LE-Z-70067/115</b>	Lamp M3-DF, with video system (camera, remote control, cabling) and external transformer (115 V)	130,000 Lux
<b>LE-Z-70097/115</b>	Lamp M5-DF, with external transformer (115 V)	160,000 Lux
<b>LE-Z-70097/230</b>	Lamp M5-DF, with external transformer (230 V)	160,000 Lux
<b>LE-Z-70097/24</b>	Lamp M5-DF, for 24 V	160,000 Lux
<b>LE-Z-70041</b>	M LED120F, focusable LED examination lamp, incl. sterilizable handle, power supply unit	40,000 Lux
<b>LE-Z-70043</b>	M LED130F, focusable LED examination lamp, incl. sterilizable handle, power supply unit	60,000 Lux
<b>LE-Z-70044</b>	M LED2 SC, single colour LED lamp for examination & small operations, power supply unit & laser pointer	100,000 Lux
<b>LE-Z-70045</b>	M LED2 MC, multi colour LED lamp for examination & small operations, power supply unit & laser pointer	100,000 Lux
<b>LE-Z-70072</b>	M LED3 SC, single colour surgical LED lamp, power supply unit & laser pointer	130,000 Lux
<b>LE-Z-70074</b>	M LED3 MC, multi colour surgical LED lamp, power supply unit & laser pointer	130,000 Lux
<b>LE-Z-70078</b>	M LED3 MC VIDEO, multi colour surgical LED lamp, power supply unit & laser pointer, and video system (incl. camera, control board, wiring)	130,000 Lux
<b>LE-Z-70082</b>	M LED5 SC, single colour surgical LED lamp, video capable, power supply unit & laser pointer	160,000 Lux
<b>LE-Z-70084</b>	M LED5 MC, multi colour surgical LED lamp, video capable, power supply unit & laser pointer	160,000 Lux
<b>LE-Z-70088</b>	M LED5 MC VIDEO, multi colour surgical LED lamp, power supply unit & laser pointer, and video system (incl. camera, control board, wiring)	160,000 Lux

Halogen

LED

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

## EXTENSION/SPRING ARMS FOR EQUIPMENT WITH UP TO 18 KG



The MAVIG Portegra2 suspension arm offers maximum flexibility. The extension/spring arm combination allows movement of different radiuses and heights for all situations.

**Patented by MAVIG:** A sophisticated safety collar prevents the separation of the connection joint. The patented safety spring keeps the connection from loosening, allowing a long, problem free lifespan. An internal steel safety cable offers maximum safety, even after many years of service. The dimensions and movement radius of the suspension arm provide the mobility needed so that radiation protection and equipment can always be positioned as required. The maximum load capacity of the extension/spring arm 950/910 mm is 15 kg.

### PORTEGRA2 EXTENSION SPRING ARM, 750 /910 MM, EQUIPPED FOR ELECTRICAL EQUIPMENT

Article-No.	Description
<b>E-LE75-1035</b>	Weight load 1 – 3.5 kg
<b>E-LE75-3570</b>	Weight load 3.5 – 7.0 kg
<b>E-LE75-70120</b>	Weight load 7.0 – 12.0 kg
<b>E-LE75-120180</b>	Weight load 12.0 – 18.0 kg

### PORTEGRA2 EXTENSION SPRING ARM, 950 /910 MM, EQUIPPED FOR ELECTRICAL EQUIPMENT

Article-No.	Description
<b>E-LE95-1035</b>	Weight load 1 – 3.5 kg
<b>E-LE95-3570</b>	Weight load 3.5 – 7.0 kg
<b>E-LE95-70120</b>	Weight load 7.0 – 12.0 kg
<b>E-LE95-120150</b>	Weight load 12.0 – 15.0 kg

### PORTEGRA2 EXTENSION SPRING ARM, 750 /910 MM, NON-ELECTRICAL

Article-No.	Description
<b>E-OT75-1035</b>	Weight load 1 – 3.5 kg
<b>E-OT75-3570</b>	Weight load 3.5 – 7.0 kg
<b>E-OT75-70120</b>	Weight load 7.0 – 12.0 kg
<b>E-OT75-120180</b>	Weight load 12.0 – 18.0 kg

### PORTEGRA2 EXTENSION SPRING ARM, 950 /910 MM, NON-ELECTRICAL

Article-No.	Description
<b>E-OT95-1035</b>	Weight load 1 – 3.5 kg
<b>E-OT95-3570</b>	Weight load 3.5 – 7.0 kg
<b>E-OT95-70120</b>	Weight load 7.0 – 12.0 kg
<b>E-OT95-120150</b>	Weight load 12.0 – 15.0 kg

### PORTEGRA2 EXTENSION SPRING ARM REPLACEMENT PARTS (available upon request)

Article-No.	Description
<b>E-7110636</b>	Plastic cover for extension arm section
<b>E-7110638</b>	Plastic cover for extension arm section 360°
<b>E-7110690</b>	Complete plastic covering set
<b>E-7110680</b>	Spring arm Cover section set

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR



# MONITOR SUSPENSION SYSTEMS

## Sleek, Versatile, and Compact

For decades now, MAVIG has enjoyed being the first choice in monitor suspension systems. The stable, high-quality systems are optimally designed for the daily needs of hospitals or radiology practices.

In addition, our monitor systems offer the upmost safety with high flexibility. Monitor compatibility is also not a problem with MAVIG suspension systems. You are able to use monitors of your choice, which use the market standard VESA-Adaptors.

Please rest assured that MAVIG Life Cycle Testing ensures 100% quality of all delivered products. Our products are UL and CE certified, as well as by TÜV Product Service, according to ISO EN 13485-2003.



# MONITOR SUSPENSION SYSTEMS

## Sleek, Versatile and Compact

For an easy installation and frictionless movement, please use this overview to decide which Monitor Suspension System is right for your needs.

What do you require?

- Stationary system or a Track system?
- How many monitors are required?
- What is the total weight?
- Internal or external cabling?

**Attention:** We strongly recommend the ceiling load capacity is tested before installing! Installation should only be carried out by qualified personnel. Our specialists will be happy to answer any further questions you may have regarding selection and planning.

	System	Certification	 1 Monitor
	GD4020		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 335 &lt; 10 kg / 22 lbs</li> <li>External cabling only</li> </ul>
	GD4021		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 335 &lt; 10 kg / 22 lbs</li> <li>External cabling only</li> </ul>
	GD4210		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 335 &lt; 15 kg / 33 lbs</li> <li>External cabling only</li> </ul>
	GD4220		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 335 &lt; 15 kg / 33 lbs</li> <li>External cabling only</li> </ul>
	GD70		<ul style="list-style-type: none"> <li>• Stationary</li> <li>&lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> </ul>
	GD75		<ul style="list-style-type: none"> <li>• For MAVIG Track 335 &lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> </ul>
	GD72		<ul style="list-style-type: none"> <li>• Stationary</li> <li>&lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>
	GD76		<ul style="list-style-type: none"> <li>• For MAVIG Track 335 &lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>
	GD65		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 480 &lt; 44 kg / 97 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>
	GD60		<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 72 kg / 158.7 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>
	MD70		<ul style="list-style-type: none"> <li>• For mobile cart &lt; 27 kg / 59.5 lbs</li> <li>Fully internal cabling</li> </ul>

\* All given weights are the total maximum weight of monitors including cables, that can be attached to the monitor holder.

2 Monitors	3 Monitors	4 Monitors	6 Monitors	8 Monitors
<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 335 &lt; 15 kg / 33 lbs</li> <li>External cabling only</li> </ul>				
<ul style="list-style-type: none"> <li>• Stationary &lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary &lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> <li>• Upgrade Kit from two to three monitors available</li> </ul>			
<ul style="list-style-type: none"> <li>• For MAVIG Track 335 &lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary &lt; 32 kg / 70.5 lbs</li> <li>External cabling only</li> <li>• Upgrade Kit from two to three monitors available</li> </ul>			
<ul style="list-style-type: none"> <li>• Stationary &lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary &lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>			
<ul style="list-style-type: none"> <li>• For MAVIG Track 335 &lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>	<ul style="list-style-type: none"> <li>• For MAVIG Track 335 &lt; 35 kg / 77.1 lbs</li> <li>Internal cabling</li> </ul>			
<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 480 &lt; 44 kg / 97 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 480 &lt; 44 kg / 97 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG Track 480 &lt; 44 kg / 97 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>		
<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 75 kg / 165.3 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 75 kg / 165.3 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 75 kg / 165.3 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 75 kg / 165.3 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>	<ul style="list-style-type: none"> <li>• Stationary</li> <li>• For MAVIG or OEM Tracks &lt; 75 kg / 165.3 lbs</li> <li>Fully internal cabling, Cardanic joint for smooth movement and collision safety</li> </ul>
<ul style="list-style-type: none"> <li>• For mobile cart &lt; 27 kg / 59.5 lbs</li> <li>Fully internal cabling</li> </ul>	<ul style="list-style-type: none"> <li>• For mobile cart &lt; 27 kg / 59.5 lbs</li> <li>Fully internal cabling</li> </ul>			

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR



**Multifunctional, even for Large Monitors**  
Individual and Efficient



### GD60 – The versatile monitor suspension system

Our patented Cardanic joint, friction free operation, automatic weight balancing, integrated cabling, and the rapid adjustment to different monitor sizes are only some of the many features provided. The system is designed for heavy load conditions, supporting a weight capacity of up to 75 kg / 165.3 lbs.

The Cardanic joint allows rapid movement of the system in case of emergency, eliminates the effects of friction, and enhances system life.

- Stationary mounted
- OEM-ceiling tracks
- MAVIG special track
- Max. weight load (monitors and cables) 75 kg / 165.3 lbs
- Quantity of monitors: 1 - 8
- Internal cabling
- Cardanic joint for more security in case of collision.

**Attention:** We strongly recommend inspection of the ceiling load capacity before installing. Mounting should only be done by qualified personnel.

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

#### FOR STATIONARY MOUNTING:

Article-No.	Description
<b>GD60W-2-F</b>	Supports 2 monitors
<b>GD60W-3-F</b>	Supports 3 monitors
<b>GD60W-4-F</b>	Supports 4 monitors
<b>GD60W-6-F</b>	Supports 6 monitors
<b>GD60W-8-F</b>	Supports 8 monitors
<b>GD60W-WS</b>	Supports monitors with screens over 32"
<b>GD60-Z</b>	Adapter for adding an additional monitor at the front side, including a VGA cable

#### TRACK OPTIONS FOR THE MONITOR SUSPENSION SYSTEM GD60:

<b>TS-GD60-1</b> consists of: a carriage + MAVIG GD60 track (4.25 m long) + 3 cable carriages + cable casing	Shorter track length available upon request.
--	--

**Attention:** Please order a suitable Monitor Suspension System for your ceiling tracks from the following table:

Article-No.	Description
<b>GD60W-2TS425</b>	Supports 2 monitors for MAVIG track
<b>GD60W-3TS425</b>	Supports 3 monitors for MAVIG track
<b>GD60W-4TS425</b>	Supports 4 monitors for MAVIG track
<b>GD60W-6TS425</b>	Supports 6 monitors for MAVIG track
<b>GD60W-8TS425</b>	Supports 8 monitors for MAVIG track
<b>GD60W-WS-TS425</b>	Supports monitors with screens over 32" for MAVIG track

# MONITOR SUSPENSION SYSTEMS

## GD65

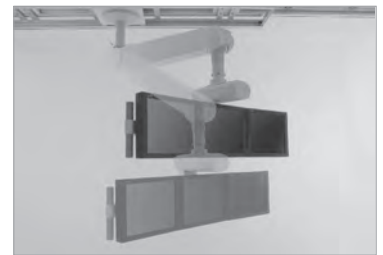


### GD65 – The powerful monitor suspension with maximum mobility

The GD65 combines the versatile MAVIG track system with the sophisticated MAVIG suspension for one to four monitors, designed for easy, friction free operation. In case of collisions during use, the Cardanic joint of the GD65 smoothly repositions itself with no damage to the people or instruments. The modular system allows the installation of additional monitors, infrared receivers, and other accessories. The patented track system is simple to install and offers maximum safety. Standard length of central column: 300 mm

- Stationary-mounted
- MAVIG ceiling track 480
- Max. weight load 44 kg / 97 lbs
- Quantity of monitors: 1 – 4
- Internal cabling
- Cardanic joint for more security in case of collision

**Attention:** We strongly recommend inspection of the ceiling load capacity before installing. Mounting should only be done by qualified personnel.



#### FOR STATIONARY MOUNTING:

Article-No.	Description
<b>GD65W-2F</b>	Supports 2 monitors
<b>GD65W-3F</b>	Supports 3 monitors
<b>GD65W-4F</b>	Supports 4 monitors
<b>GD65W-WS-F</b>	Supports monitors with screens over 32"

#### FOR MAVIG CEILING TRACK 480:

Article-No.	Description
<b>GD65W-2TS25</b>	Supports 2 monitors with a MAVIG ceiling track 480, 2.5 m long
<b>GD65W-3TS25</b>	Supports 3 monitors with a MAVIG ceiling track 480, 2.5 m long
<b>GD65W-4TS25</b>	Supports 4 monitors with a MAVIG ceiling track 480, 2.5 m long
<b>GD65W-2TS40</b>	Supports 2 monitors with a MAVIG ceiling track 480, 4.0 m long
<b>GD65W-3TS40</b>	Supports 3 monitors with a MAVIG ceiling track 480, 4.0 m long
<b>GD65W-4TS40</b>	Supports 4 monitors with a MAVIG ceiling track 480, 4.0 m long
<b>GD65W-WS-TS25</b>	Monitor support for large screen monitors over 32" with a MAVIG ceiling track 480, 2.5 m long
<b>GD65W-WS-TS40</b>	Monitor support for large screen monitors over 32" with a MAVIG ceiling track 480, 4.0 m long

**GD72/76**

**GD72 (stationary) and GD76 (for MAVIG ceiling track 335) – The smart monitor suspension system**

Supports a load of up to 33 kg (72.7 lbs) with a flexible spring arm and integrated cabling, which is generally seen only in larger systems. Thanks to this, the GD72 is a great economic alternative when only one to three monitors are required.

With use of the spring arm, the monitors can be easily positioned. The patented MAVIG ceiling track systems enable a larger positioning area, but are still easy to install and offer high security.

- Stationary mounted – GD72
- For MAVIG ceiling track 335 – GD76
- Max. weight load 35 kg / 77.1 lbs
- Number of monitors: 1 – 3
- Internal cabling

*Attention:* We strongly recommend inspection of the ceiling load capacity before installing. Mounting should only be done by qualified personnel.


**FOR STATIONARY MOUNTING:**

Article-No.	Description
<b>GD72W-1</b>	Supports 1 monitor
<b>GD72W-2</b>	Supports 2 monitors
<b>GD72W-3</b>	Supports 3 monitors

**FOR MAVIG CEILING TRACK 335:**

Article-No.	Description
<b>GD76W-1TS25</b>	Supports 1 monitor with a MAVIG ceiling track 335, 2.5 m long
<b>GD76W-1TS40</b>	Supports 1 monitor with a MAVIG ceiling track 335, 4.0 m long
<b>GD76W-2TS25</b>	Supports 2 monitors with a MAVIG ceiling track 335, 2.5 m long
<b>GD76W-2TS40</b>	Supports 2 monitors with a MAVIG ceiling track 335, 4.0 m long
<b>GD76W-3TS25</b>	Supports 3 monitors with a MAVIG ceiling track 335, 2.5 m long
<b>GD76W-3TS40</b>	Supports 3 monitors with a MAVIG ceiling track 335, 4.0 m long

**KIT FOR PRE-INSTALLED MAVIG CEILING TRACK 335**

With an adapted carriage, the GD76 can be inserted into an already existing Portegra2 ceiling track with 335 mm width. Due to the high weight load, a maximum of two trolleys can be installed with this option.

Article-No.	Description
<b>GD76W-1</b>	Monitor support for 1 display with carriage for a MAVIG ceiling track 335. Track is not included.
<b>GD76W-2</b>	Monitor support for 2 displays with carriage for a MAVIG ceiling track 335. Track is not included.
<b>GD76W-3</b>	Monitor support for 3 displays with carriage for a MAVIG ceiling track 335. Track is not included.

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

# MONITOR SUSPENSION SYSTEMS

## GD70/75



### GD70 – The economic solution for stationary systems

The GD70 permits easy stationary mounting. Many functions of the “big” systems, like a curved horizontal rail for perfect viewing angle, aligned LCD positioning, and gripping handles are provided.

### GD75 – The economic solution for MAVIG ceiling track 335

The GD75 also contains the features of a curved horizontal rail for perfect viewing angle, aligned LCD positioning, and gripping handles.

Due to its slim design and lower weight, the GD75 can easily be used in pre-installed, MAVIG Portegra2 tracks at any time.

- External cabling for all versions
- Max. weight load 32 kg / 70.5 lbs
- Quantity of monitors: 1 – 3
- Length of the column can be between 250 and 800 mm
- GD70 – stationary
- GD75 – for MAVIG ceiling track 335

Article-No.	Description
<b>GD70-1</b>	Stationary monitor support for 1 monitor
<b>GD70-2</b>	Stationary monitor support for 2 monitors
<b>GD70-3</b>	Stationary monitor support for 3 monitors
<b>GD7520-1</b>	Supports 1 monitor with a MAVIG ceiling track 335, 2.5 m long
<b>GD7540-1</b>	Supports 1 monitor with a MAVIG ceiling track 335, 4.0 m long
<b>GD7520-2</b>	Supports 2 monitors with a MAVIG ceiling track 335, 2.5 m long
<b>GD7540-2</b>	Supports 2 monitors with a MAVIG ceiling track 335, 4.0 m long
<b>GD7520-3</b>	Supports 3 monitors with a MAVIG ceiling track 335, 2.5 m long
<b>GD7540-3</b>	Supports 3 monitors with a MAVIG ceiling track 335, 4.0 m long

### UPGRADE-KIT FOR PRE-INSTALLED PORTEGRA2 MAVIG CEILING TRACK 335

With an adapted carriage, the GD75 can be inserted into an existing Portegra2 MAVIG ceiling track 335. Due to the high weight load, a maximum of two trolleys per track can be installed with this option.

Article-No.	Description
<b>GD7500-1</b>	Monitor support for 1 display for a MAVIG ceiling track 335. Track is not included.
<b>GD7500-2</b>	Monitor support for 2 displays for a MAVIG ceiling track 335. Track is not included.
<b>GD7500-3</b>	Monitor support for 3 displays for a MAVIG ceiling track 335. Track is not included.
<b>GD75UG3</b>	Upgrade Kit from two to three monitors

**LCD MONITOR HOLDERS, COMPATIBLE FOR THE PORTEGRA2 SYSTEM**

 <p>GD4020</p>	 <p>GD4210</p> 	 <p>GD4220</p>	<p><b>GD4020 / GD4021</b></p> <p>Flexible holder for one LCD display. Variable adjustments allow wide viewing angles. In case of collision, the monitor retracts to the side.</p> <ul style="list-style-type: none"> <li>■ External cabling</li> <li>■ Max. weight load 10 kg / 22 lbs</li> </ul> <p><b>GD4210</b></p> <ul style="list-style-type: none"> <li>■ External cabling</li> <li>■ Max. weight load 15 kg / 33 lbs</li> </ul> <p><b>GD4220</b></p> <ul style="list-style-type: none"> <li>■ External cabling</li> <li>■ Max. weight load 15 kg / 33 lbs</li> </ul>
--	---	---	---

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

Article-No.	Description
<b>GD4020</b>	Flexible holder for one LCD display for VESA adapter 100 mm
<b>GD4020TS-F</b>	Flexible holder for one LCD display for VESA adapter 100 mm with extension/spring-arm and twin-column* for stationary mounting
<b>GD4020TS-LW25</b>	Flexible holder for one LCD display for VESA adapter 100 mm with extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 2500 mm
<b>GD4020TS-LW40</b>	Flexible holder for one LCD display for VESA adapter 100 mm with extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 4000 mm
<b>GD4021</b>	Flexible holder for one LCD display for VESA adapter 100 mm with lateral handle
<b>GD4021TS-F</b>	Flexible holder for one LCD display for VESA adapter 100 mm with lateral handle, extension/spring-arm and twin-column* for stationary mounting
<b>GD4021TS-LW25</b>	Flexible holder for one LCD display for VESA adapter 100 mm with lateral handle, extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 2500 mm
<b>GD4021TS-LW40</b>	Flexible holder for one LCD display for VESA adapter 100 mm with lateral handle, extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 4000 mm
<b>GD4210</b>	Monitor support Portegra2 Mono for VESA adapter 75 mm or 100 mm
<b>GD4210TS-F</b>	Monitor support Portegra2 Mono for VESA adapter 75 mm or 100 mm with extension-/spring-arm and twin-column* for stationary mounting
<b>GD4210TS-LW25</b>	Monitor support Portegra2 Mono for VESA adapter 75 mm or 100 mm with extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 2500 mm
<b>GD4210TS-LW40</b>	Monitor support Portegra2 Mono for VESA adapter 75 mm or 100mm with extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 4000 mm
<b>GD4220</b>	Monitor support Portegra2 Dual for VESA adapter 100 mm
<b>GD4220TS-F</b>	Monitor support Portegra2 Dual for VESA adapter 100 mm with extension/spring-arm and twin-column* for stationary mounting
<b>GD4220TS-LW25</b>	Monitor support Portegra2 Dual for VESA adapter 100 mm with extension-/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 2500 mm
<b>GD4220TS-LW40</b>	Monitor support Portegra2 Dual for VESA adapter 100 mm with extension/spring-arm and twin-column* with carriage and Portegra2 ceiling track width = 335 mm, length = 4000 mm
<b>GD 75</b>	see description page 26
<b>GD 76</b>	see description page 25

\* When ordering, please indicate the required length of the column that will still allow the 2.10 m of space between the column and the floor.

# MONITOR SUSPENSION SYSTEMS



Article-No.	Description
<b>MM05</b>	MediArm Lift 05; spring arm with a VESA100/75 adaptor, length 400 mm; suitable for monitors with a weight of 2.5 - 8.0 kg; attaches to the wall and adjusts upwards horizontally
<b>MM05-T</b>	MediArm Lift 05; includes all features as above, but with a table mount attachment
<b>MM204FV</b>	Lift 20 FV; spring arm with a VESA100/75 adaptor, length 400 mm; suitable for monitors with a weight of 2.5 - 8.0 kg; attaches to wall and adjusts up or down
<b>MM205RPV</b>	Lift20 RPV – lockable version for optical equipment
<b>MM207FAV</b>	Lift20 FAV; spring arm (length 750 mm) with an extension arm (450 mm) and a VESA100/75 monitor adaptor, weight range 3.0 - 8.0 kg. The arm comes with a wall attachment and is lockable.
<b>MM20FAVT</b>	Lift20 FAVT; spring arm (length 360 mm) with an extension arm (155 mm) and a VESA100/75 monitor adaptor, attaches to wall, includes holder for mouse and keyboard

**CART MD70**



MD70-1, MD70-2, MD70-3

**MD70 – The mobile solutions for limited space**

A mobile system for up to three monitors created for rooms where ceiling suspension is not possible.

Designed for maximum safety and flexibility the MD70 can be easily moved to the exact location needed.

In addition, the MD70 comes with a cable roll up to make sure that no excess cables are laying around during or after use.

- Weight load < 27 kg / 59.5 lbs
- Integrated cabling optional



Article-No.

Description

<b>MD70-1</b>	Monitor cart for one display without cabling
<b>MD70-2</b>	Monitor cart for two displays without cabling
<b>MD70-3</b>	Monitor cart for three displays without cabling
<b>MD70W-1</b>	Monitor cart for one display with cabling
<b>MD70W-2</b>	Monitor cart for two displays with cabling
<b>MD70W-3</b>	Monitor cart for three displays with cabling

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

# Safe & Comfortable

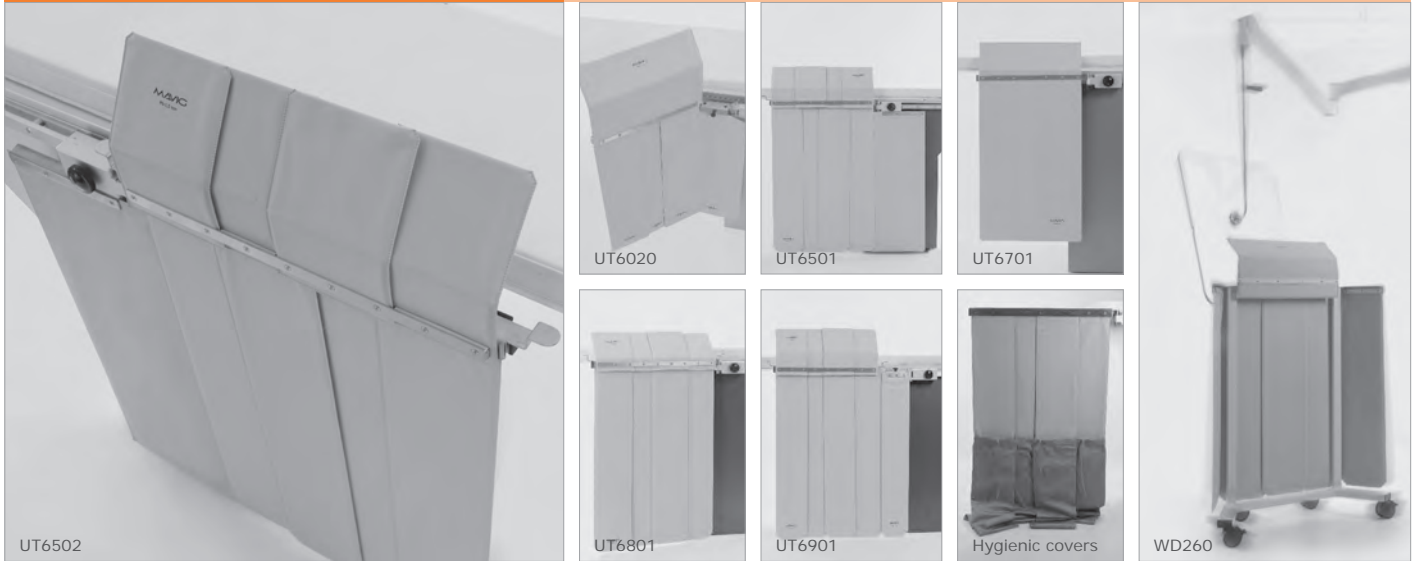
## LOWER BODY PROTECTION

Lower body protective systems are an integral part of every radiation protection concept for interventional radiology and OR. They reduce secondary radiation substantially. Optimal protection is ensured only with the combination of ceiling-suspended radiation protection and lower body protection with an upper shield. The ceiling-suspended system and the examiner's shield protect the examiner against secondary radiation emanating from the body of the patient. The lower body protection absorbs radiation from underneath the table, and shields the lower extremities and genital area of the examiner.

In many fields such as interventional radiology, installing radiation protection for the underside of tables has been a problem. Especially troublesome have been tables with adjustable segments, which allow table sections to be moved, and thus require a special solution. The patented UT30 system introduced by MAVIG now allows medical personal to create an individualized protection for the lower body, which is usable with all manufactures and models of OR tables, and synchronizes with the movement of the table.



## LOWER BODY PROTECTIVE SYSTEMS



Article-No.	Description
<b>UT6020</b>	Lower body protection Model 6260, versatile positioning, one removable upper shield (360 mm)
<b>UT6501</b>	Lower body protection Model 6265, left side protection
<b>UT6502</b>	Lower body protection Model 6265, right side protection
<b>UT6701</b>	Lower body protection Model 67, one piece
<b>UT6801</b>	Lower body protection Model 6268, includes two removable upper shields (170 mm + 225 mm)
<b>UT6802</b>	Lower body protection Model 6268, one removable upper shield (225 mm)
<b>UT6901</b>	Lower body protection Model 6269, two removable upper shields (170 mm + 225 mm)
<b>UT6902</b>	Lower body protection Model 6269, one removable upper shield (225 mm)

## HYGIENIC COVERS

Article-No.	Description
<b>UT6020F</b>	Hygienic covers for UT6020
<b>UT6501F</b>	Hygienic covers for UT6501 and UT6502
<b>UT6801F</b>	Hygienic covers for UT6801 and UT6802
<b>UT6901F</b>	Hygienic covers for UT6901 and UT6902

## IMPLEMENTATION FOR OPERATING ROOM TABLES

Lower body protection for operating room tables are a clever option for the protection of personal that does add to the strain of the people being protected. The table takes over the weight load, allowing less drain for better performance of personal who need long duration protection. As the protective units can be pivoted to allow different angles of protection, they allow versatile usage, storage, and free movement, which is needed in today's OR and practices. Suitable for flat profile tracks 10 x 25 mm and 9 x 25 mm

Article-No.	Description
<b>UT3060SET</b>	The set contains three panels, each 600 x 290 mm, Pb 0.50 mm
<b>UT3075SET</b>	The set contains three panels, each 750 x 290 mm, Pb 0.50 mm
<b>UT3090SET</b>	The set contains three panels, each 900 x 290 mm, Pb 0.50 mm
<b>UT3060SL</b>	Single panel, 600 x 290 mm, Pb 0.50 mm
<b>UT3075SL</b>	Single panel, 750 x 290 mm, Pb 0.50 mm
<b>UT3090SL</b>	Single panel, 900 x 290 mm, Pb 0.50 mm

## MOBILE LOWER BODY PROTECTION

Article-No.	Description
<b>WD260/100/81/E</b>	Mobile lower body protection with two removable upper shields (250 mm + 170 mm height), a 600 x 1000 mm middle section and 200 x 1000 mm angled sections each side, all in Pb 0.50 mm.

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

## MOBILE SHIELDS

### Moveable Protective Shields for Flexible Use

We start with high expectations and goals for the mobile protective shields at the conception and developmental stage. All requirements of equipment and procedural methodology of the operation room, as well as all demands of the personnel have been taken into consideration.

MAVIG produces mobile shields from the most modern protective material in a variety of options. We of course welcome specific needs of our clients in addition to our standard offerings.

With exception to models WD254, WD255, and WD258, all of our mobile shields are fitted with special wheels to reduce electrostatic electricity.



**MOBILE SHIELDS**


- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

Article-No.	Description
<b>WD2571</b>	Steel plate body (Pb 1.00 mm), height adjustable lead acrylic shield (Pb 0.50 mm); Width: 77.5 cm, Height: 115 - 188 cm
<b>WD3021</b>	Steel plate body (Pb 1.00 mm), height adjustable lead acrylic shield with contour cutout (Pb 0.50 mm); Width: 77.5/110 cm, Height: 140 - 190 cm
<b>WD3041</b>	Steel plate body (Pb 1.00 mm), height adjustable lead acrylic shield with contour cutout (Pb 0.50 mm); with an extra lower body protection attachment of overlapping lead rubber panels (Pb 0.50 mm); Width: 77.5+50.0/110 cm, Height: 133 - 168 cm
<b>WD260/100/81/E</b>	Mobile lower body protection with two removable upper shields (Height: 25 cm + 17 cm), Middle section: 60 x 100 cm (W x H), Side sections: 20 x 100 cm (W x H), Pb 0.50 mm

# MOBILE SHIELDS



Article-No.	Description
<b>WD300</b>	Curved lead-acrylic shield with side arm cutouts, Pb 0.50 mm, 60 x 190 cm (W x H)
<b>WD306/0.5/1000</b>	Mobile protective shield, Pb 0.50 mm, 100 x 197 cm (W x H)
<b>WD306/0.5/1300</b>	Mobile protective shield, Pb 0.50 mm, 130 x 197 cm (W x H)
<b>WD306/1.0/1000</b>	Mobile protective shield, Pb 1.00 mm, 100 x 197 cm (W x H)
<b>WD306/1.0/1300</b>	Mobile protective shield, Pb 1.00 mm, 130 x 197 cm (W x H)
<b>WD308/0.5/1000</b>	Mobile protective shield, Pb 0.50 mm, 100 x 195 cm (W x H)
<b>WD308/0.5/800</b>	Mobile protective shield, Pb 0.50 mm, 80 x 110 cm (W x H)
<b>WD308/1.0/1000</b>	Mobile protective shield, Pb 1.00 mm, 100 x 195 cm (W x H)
<b>WD308/1.0/800</b>	Mobile protective shield, Pb 1.00 mm, 80 x 110 cm (W x H)

All given heights include the wheels.

**MOBILE SHIELDS WD254, WD255, WD258**


- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

Article-No.	Description
<b>WD2541B</b>	Foldable protective screen with a middle section, including a 40 x 30 cm lead glass window and two side sections, Pb 1.00 mm
<b>WD2542B</b>	Foldable protective screen with a middle section, including a 40 x 30 cm lead glass window and two side sections, Pb 2.00 mm
<b>WD2551A</b>	Mobile protective screen without window, 1000 x 2000 cm (W x H), Pb 1.00 mm
<b>WD2551B</b>	Mobile protective screen with a lead glass window (30 x 40 cm), 1000 x 2000 cm (W x H), Pb 1.00 mm
<b>WD2552A</b>	Mobile protective screen without window, 1000 x 2000 cm (W x H), Pb 2.00 mm
<b>WD2552B</b>	Mobile protective screen with a lead glass window (30 x 40 cm), 1000 x 2000 cm (W x H), Pb 2.00 mm
<b>WD258</b>	Mobile bed screen 90 x 69 cm, height adjustable from 128 to 172 cm, Pb 0.50 mm Upon request also available in Pb 1.00 mm and with different dimensions.

# PROTECTIVE CURTAINS

## Leading Technology is Embodied in Detail



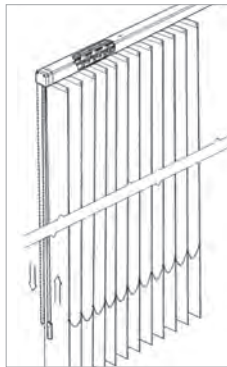
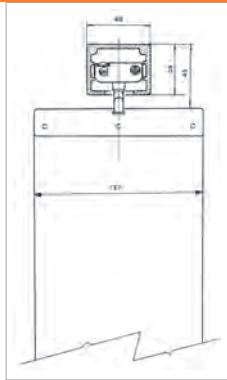
It goes without saying that we guarantee the safety and continued working precision of our installations in its daily use.

This product commitment applies to the mechanical components which are utilized exclusively for MAVIG Radiation Protective Curtains worldwide.

Our engineering and design concepts have allowed us to minimize the weight factor of the curtains for the user, and to meet the stringent requirements essential for radiation protection.

At MAVIG, you will encounter a well-versed team that is competent in the specialties of radiation protection installations, system technology, and room planning. Faultless radiation protection, attractive appearance, and functional installation are the road to satisfying results.

PROTECTIVE CURTAINS VH194, VH191, VH691, VH192, VH196



Our curtains and blinds are individually tailored and manufactured to fit the client's exact needs. In order to give an exact cost, we require the following information:

- **Pb-value:** 0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, or 2.5 mm
- **Height:** The exact height of the structure that is needed, from the beginning of the track to the bottom of the protective panels.  
*Please allow an extra 10 cm to your calculation on both ends, top and bottom, to ensure adequate protection of the area.*
- **Width:** The exact length of the tracking.  
*Please allow 10 cm extra to your calculation on both sides to ensure adequate protection of the area.*

For any questions or additional information required, please feel free to contact one of our specialists to further assist you.

- TS
- OT
- GD
- LE
- PTZ
- UT
- WD
- VH
- DGS
- GR

Article-No.	Description
VH194NW	Radiation protective blinds
VH194SL	Radiation protective blinds, special track for heavy weight
VH191-60	Protective curtain in track, 60 cm wide lead rubber segments with outer PVC cover, height tailored to customer needs, 20 cm overlap per panel for multiple-panel solutions
VH191-90	Protective curtain in track, 90 cm wide lead rubber segments with outer PVC cover, height tailored to customer needs, 20 cm overlap per panel for multiple-panel solutions
VH191-100	Protective curtain in track, 100 cm wide lead rubber segments with outer PVC covering, height tailored to customer needs, 20 cm overlap per panel for multiple-panel solutions
VH691	Model 191 with MAVIG ComforTex covering
VH192	Telescopic overlapping panels in tracking, 50 or 90 cm wide lead rubber panels
VH196	Radiation protective folding blinds, crank handle or electric motor actuation

## RADIATION PROTECTIVE WINDOWS both large and small

Working with modern and sensitive materials such as lead acrylic glass or lead glass is our specialty. Our extensive experience and know-how guarantee the quality, as well as of the production of tailor-made radiation protective windows. We bring with us the knowledge of special industry requirements for protection from radiation and safety.

Our competence is at your service. We deliver modern and functional radiation protective windows, which through their modular production meet the needed requirements for medical usage. Among our large selection of windows offered, you will certainly find the solution needed that is also simple and problem free to install. Extensive preparation and complicated construction can be avoided. MAVIG windows are just part of a total concept. We offer many options that can be later utilized when needed, such as protective blinds. We offer our clients decades

of experience and look forward to your requests.

Our production meets the needs of protecting people in the medical work place, allowing a stable and effective installation which can be trusted.



**OBSERVATION WINDOWS**
**Model DGS 81** – for solid material walls.

Consists of a lacquered medico white RAL 9002 basic metal frame with inner-laying radiation protection of Pb 2.0 mm and high quality lead glass pane.

Wall opening	Lead Glass Pane	Pb Value
870 x 670 mm	800 x 600 mm	1.6 mm
		2.2 mm
		2.2 mm
1070 x 870 mm	1000 x 800 mm	1.6 mm
		2.2 mm
1270 x 870 mm	1200 x 800 mm	1.6 mm
		2.2 mm
1270 x 1070 mm	1200 x 1000 mm	2.2 mm
1470 x 1070 mm	1400 x 1000 mm	2.2 mm
1670 x 1070 mm	1600 x 1000 mm	2.2 mm
1870 x 1070 mm	1800 x 1000 mm	2.2 mm
2070 x 1070 mm	2000 x 1000 mm	2.2 mm

Non standard sizes and other lead equivalencies available upon request.

**Model DGS 83** – for dry walls.

Consists of a lacquered medico white RAL 9002 basic metal frame with inner-laying radiation protection of Pb 2.0 mm and high quality lead glass pane.

Wall opening	Lead Glass Pane	Pb Value
870 x 670 mm	800 x 600 mm	1.6 mm
		2.2 mm
		2.2 mm
1070 x 870 mm	1000 x 800 mm	1.6 mm
		2.2 mm
1270 x 870 mm	1200 x 800 mm	1.6 mm
		2.2 mm
1270 x 1070 mm	1200 x 1000 mm	2.2 mm
1470 x 1070 mm	1400 x 1000 mm	2.2 mm
1670 x 1070 mm	1600 x 1000 mm	2.2 mm
1870 x 1070 mm	1800 x 1000 mm	2.2 mm
2070 x 1070 mm	2000 x 1000 mm	2.2 mm

Non standard sizes and other lead equivalencies available upon request.

**Model DGS 82** – for doors.

Consists of a lacquered Medico white RAL 9002 basic metal frame with inner-laying radiation protection of Pb 2.0 mm, metal window cavity bracket, and high quality lead glass pane.

Door opening	Lead Glass Pane	Pb Value
470 x 370 mm	400 x 300 mm	1.1 mm
		1.6 mm
		2.2 mm
		2.2 mm
570 x 470 mm	500 x 400 mm	1.1 mm
		1.6 mm
		2.2 mm
670 x 470 mm	600 x 400 mm	1.1 mm
		1.6 mm
		2.2 mm
770 x 570 mm	700 x 500 mm	1.1 mm
		1.6 mm
		2.2 mm

Non standard sizes and other lead equivalencies available upon request.

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

# OBSERVATION WINDOWS

## RADIATION PROTECTIVE LEAD GLASS

### Radiation Protective Lead Glass

High-quality, radiation protective glass, protection quality "S" according to DIN 6841

	Pb 1.2	Pb1.5	Pb 2.1	Pb 2.5	Pb 3.0	Pb 3.5	Pb 4.8	Pb 6.1
	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
Format (mm)								
400 x 300	GR8410/4030	GR8415/4030	GR8420/4030	GR8427/4030	GR8432/4030	GR8437/4030	GR8551/4030	GR8464/4030
500 x 400	GR8410/5040	GR8415/5040	GR8420/5040	GR8427/5040	GR8432/5040	GR8437/5040	GR8551/5040	GR8464/5040
600 x 400	GR8410/6040	GR8415/6040	GR8420/6040	GR8427/6040	GR8432/6040	GR8437/6040	GR8551/6040	GR8464/6040
700 x 500	GR8410/7050	GR8415/7050	GR8420/7050	GR8427/7050	GR8432/7050	GR8437/7050	GR8551/7050	GR8464/7050
800 x 600	GR8410/8060	GR8415/8060	GR8420/8060	GR8427/8060	GR8432/8060	GR8437/8060	GR8551/8060	GR8464/8060
1000 x 800	—	GR8415/10080	GR8420/10080	GR8427/10080	GR8432/10080	GR8437/10080	GR8551/10080	GR8464/10080
1200 x 800	—	GR8415/12080	GR8420/12080	GR8427/12080	GR8432/12080	GR8437/12080	GR8551/12080	GR8464/12080
1200 x 1000	—	—	GR8420/120100	GR8427/120100	GR8432/120100	GR8437/120100	—	—
1400 x 1000	—	—	GR8420/140100	GR8427/140100	GR8432/140100	GR8437/140100	—	—
1600 x 1000	—	—	GR8420/160100	GR8427/160100	GR8432/160100	GR8437/160100	—	—
1800 x 1000	—	—	GR8420/180100	GR8427/180100	GR8432/180100	GR8437/180100	—	—
2000 x 1000	—	—	GR8420/200100	GR8427/200100	GR8432/200100	GR8437/200100	—	—
Ø 30 cm								
Ø 35 cm								
Ø 45 cm								

Pb value measured at 110 kV

Non standard sizes, cuts, and other lead equivalencies available upon request.

## MOUNTING PARTS FOR GLASS PANES

The complete list of parts for attaching 8 – 12 mm glass panes to doors or walls:

- Four plastic holders in black
- Four wood screws
- Four screw anchors for wood screws
- Four flat-head screws M5 x16 VA DIN85

Article-No.

Description

**GR844**

Mounting parts for glass panes up to Pb 2.1 mm and maximum 8.5 mm thickness, 4 pieces per set

**GR845**

Mounting parts for glass panes with a Pb 2.1 mm to Pb 3.5 mm and maximum thickness 8.5 mm to 12.0 mm, 4 pieces per set

## LC GLASS PRO

### Radiation Protective Lead Glass in partnership with LC Glass PRO

Allows you or your clients a more private atmosphere when needed. With a touch of the control, the transparent window turns into opaque glass. Prices upon request. Please inform us of the size and Pb value needed.

TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR



TS

OT

GD

LE

PTZ

UT

WD

VH

DGS

GR

**MAVIG GmbH  
Headquarter**

P.O. Box 82 03 62  
81803 Munich  
Germany

Stahlgruberring 5  
81803 Munich  
Germany

Phone: +49-89 420 96 0  
Fax: +49-89 420 96 200  
e-Mail: [info@mavig.com](mailto:info@mavig.com)

**MAVIG B.V.  
Benelux, GB, Ireland**

Elandstraat 2  
2513 GR The Hague  
The Netherlands

Phone: +31-70 820 03 46  
Fax: +31-70 820 96 47  
e-Mail: [info@mavig.nl](mailto:info@mavig.nl)

**MAVIG Nordic  
Scandinavia, Iceland,  
Baltics**

Phone: +46-722 25 25 68  
e-Mail: [larsson@mavig.com](mailto:larsson@mavig.com)

**MAVIG France SAS  
France**

66, Ave. des Champs Elysées  
F-75008  
France

Phone: +33-130 59 46 23  
Fax: +33-130 59 46 23  
e-Mail: [info@mavig.fr](mailto:info@mavig.fr)

**Ti-Ba Enterprises, Inc.  
MAVIG representatives  
in the USA and Canada**

25 Hytec Circle  
Roychester, NY 14606  
USA

Phone: +1-585 247 1212  
Fax: +1-585 247 1395  
(overseas)  
800 836 8422  
(in the US)  
e-Mail: [mavig@ti-ba.com](mailto:mavig@ti-ba.com)

[www.mavig.com](http://www.mavig.com)