



Protection & Suspension Systems – Portfolio IPL 2014/1 TP

Valid November 1st, 2014



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 m², 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.



1921



1960



1972



1985



today

THE FUTURE

For over 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 WORKPLACE SAFETY

MAVIG is compliant and certified according to the applicable European Standards:

- ISO 13485 (Quality Management System for Medical Devices)
- 93/42/EEC (Eur. Directive for Medical Devices)
- 89/686/EEC (Eur. Directive for Personal Protective Equipment)
- ISO 14971 (Risk Management System)
- IEC 60601 (Medical Electrical Equipment's requirements for basic safety and essential performance)

MAVIG standard products are CE compliant and in most cases UL listed.

MAVIG® and Portegra® are registered trademarks of MAVIG GmbH.

General Terms of Business (Excerpt)

All sales transactions are done in EURO. Unless otherwise stated, prices of goods include packaging, 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 lead glass and custom made products.

Special orders are sold on a non-refundable basis. 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.

For our complete general terms of business please refer to our website or contact us.

www.mavig.com

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TS

OT

GD

LE

HZ

UT

WD

VH

DGS

GR

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.

PORTEGRA²



Portegra2 suspension arm, a combination of extension & spring arm Page 18

Lamp and suspension arm combinations Pages 16, 17



LE70041, -43



LE70044, -45



LE70072, -74, -78



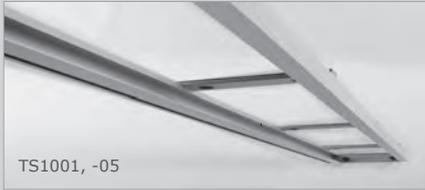
LE70082, -84

As Track Mounted or Stationary Installation



TS1002, -06

Cable spooler



TS1001, -05

Ceiling tracks and accessories

Page 9



TS1520

Installation elements



TS1515

Page 11



TS2031, -32

Ceiling columns with trolleys

Page 9



TS1501, -02, -03



TS2020, -21, -22, -23

Ceiling columns for stationary installation



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



TS2320, -21, -22

Pages 10, 11

 MAVIG columns are equipped with either one or two electrical pins for a direct connection to a lamp. An electrical contact is represented in this catalogue with the light symbol.

Radiation protective shields with suspension arm

Pages 12, 13



OT50001



OT50002



OT50003



OT54001



OT50011



OT80001, -02, -03

Monitor and equipment holders

Page 15



GD4020



GD4021



GD4210, GD4210-L



GD4220, GD4220-L/XL



Customized solution



Customized solution

The Worldwide Standard for Safe Equipment Support and Radiation Protection Systems – **Portegra2**



PORTEGRA2 designed by MAVIG

The innovative TriPin ceiling column series expands on Portegra2's successful slim design and flexibility to provide a cost-effective way to manage three devices within a compact space.

PATENTED by MAVIG

- Ceiling anchor
- Brake mechanism for track-guided systems
- The MAVIG Portegra2 spring arm
- Internal safety spring
- Defined breaking point with safety cable catch
- A secondary pin lock

SAFETY & PERFORMANCE FEATURES

- Maximum load capacity of up to 18 kg (39.7 lbs) for each suspension arm
- The steel extension / spring arm ensures high stability against collisions
- UL listing (IEC 60601-1, Edition 2 + 3) and CE certification
- User-friendly, smooth edged design
- Allows for different load levels
- Easy spring arm tension adjustment
- Life Cycle Tested

CEILING TRACKS AND ACCESSORIES



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

Standard track lengths of 2.5 m (98 in) and 4.0 m (157 in)
Other lengths available upon request (max. 5.0 m / 196.9 in).

Article-No.	Description
TS1001	Versatile ceiling track width 335 mm, length = 2.5 m
TS1002	Versatile ceiling track width 335 mm, length = 2.5 m, with cable spooler (only for lamps)
TS1005	Versatile ceiling track width 335 mm, length = 4.0 m
TS1006	Versatile ceiling track width 335 mm, length = 4.0 m, with cable spooler (only for lamps)
E-TS10B06	Retro cable spooler fitting kit (only for lamps) for track length = 2.5 m
E-TS10B03	Retro cable spooler fitting kit (only for lamps) for track length = 4.0 m
TS10B04	Cable holders for the cable track, 3 piece set (recommended for 2.5 m track)
TS10B04/5	Cable holders for the cable track, 5 piece set (recommended for 4.0 m track)
E-7110286	Brake Handle Extension for Portegra2 columns with carriage, extra length = 270 mm

CEILING TRACK COLUMNS



MAVIG Columns for the Portegra2 System

Solid construction for maximum safety. Many years of development have 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 brake holds the carriage at a fixed position inside the ceiling track, which provides additional safety during its use.

360° Column with Carriage (Trolley)

- Lower pin allows 360° rotation
- Upper pin is electrical with 240° rotation
- Maximum net load at spring arm adapter: 18.0 kg (39.7 lbs)

Twin Column with Carriage (Trolley)

- One electrical pin and one standard pin at the same height
- Each pin offers a 240° rotation
- Maximum net load at spring arm adapter: 18.0 kg (39.7 lbs)

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

Special construction upon request 360° column with carriage: minimal length = 530 mm / Twin column with carriage: minimal length = 420 mm

TS

OT

GD

LE

HZ

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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 provides 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 electrical pin  and one standard pin at the same height
- Each pin offers a 240° rotation
- Maximum net load at spring arm adapter: 18.0 kg (39.7 lbs)
- Second electrical pin available upon request

360° Column Stationary

- Lower pin allows 360° rotation
- Upper fixed pin is electrical with 240° rotation
- Maximum net load at spring arm adapter: 18.0 kg (39.7 lbs)

Article-No.	Description
TS2020	360° column stationary, length = 1000 mm
TS2021	360° column stationary, length = 850 mm
TS2022	360° column stationary, length = 650 mm
TS2023	360° column stationary, length = 580 mm
TS2001	Twin column stationary, length = 1000 mm
TS2002	Twin column stationary, length = 850 mm
TS2003	Twin column stationary, length = 580 mm
TS2004	Twin column stationary, length = 650 mm
TS2005	Twin column stationary, length = 460 mm
E-TS20B05	Electrical insulating kit for all stationary mounting columns

Special construction upon request 360° column stationary: minimal length = 530 mm / Twin column stationary: minimal length = 420 mm

TRIPIN COLUMNS FOR STATIONARY MOUNTING



MAVIG TriPin Columns for the Portegra2 System

The innovative TriPin ceiling column series expands on Portegra2's successful slim design and flexibility to provide a cost-effective way to manage three devices within a compact space. Portegra2's signature 360° mounting pin still guarantees the highest degree of safety and positioning.

MAVIG TriPin columns are equipped standard with two electrical connections for fixed mounted systems.

TriPin Column Stationary

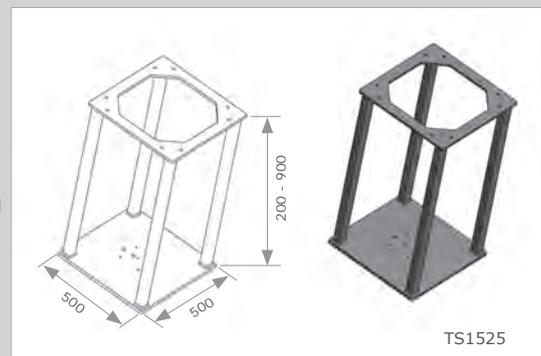
- Three mounting pins
- Both upper pins offer a 240° rotation; Lower pin 360°
- Electrical connection: 3-pole sliding contacts
- Maximum 18.0 kg (39.7 lbs) net load for each mounting post
- Different lengths to match room height
- Compatible with existing Portegra2 mounting plates and suspension arms

Article-No.	Description
TS2320	TriPin stationary column, length = 1000 mm
TS2321	TriPin stationary column, length = 850 mm
TS2322	TriPin stationary column, length = 580 mm
Special construction upon request	TriPin column stationary: minimal length = 530 mm Ceiling column lengths are measured from the top of the mounting flange to the bottom of the column structure.



When mounting a Portegra2 system in a suspended ceiling, we can offer custom made support structures.

A fixed distance from 200 to 900 mm between the suspended ceiling and the solid ceiling above can be bridged.



Article-No.	Description
TS1515	Wall Mount for Portegra2 (max. load capacity of 13.0 kg (28.6 lbs))
TS1520	Mounting plate for stationary column (recommended for substructures, e.g. Unistrut®)
TS1525	Bridge/Support structure

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

Scattered Radiation Protection for Femoral and Radial Access

ADVANTAGES OF MAVIG'S NEW OT54/94 PROTECTIVE SHIELD CONCEPT

- Easy integration of the radiation protective concept into room planning
- Drastic reduction of scatter radiation up to 90%
- Highest possible elimination of underpassing radiation due to the curtain and the drapes
- X-ray protective shield suitable for femoral and radial access, because of special adapted designs of the shield and the drapes
- Matching, easy to use, sterile disposable covers for the shield and drapes
- Greater freedom of movement within safe, protective zones
- Protection of the head (ocular lens!) even for tall examiners
- Easy to clean outer material of the curtain as well as the drapes
- Reduced burden on the personnel when wearing lighter protective clothing

RADIATION PROTECTIVE SHIELDS INCLUDING SUSPENSION ARM

Easy and Simple Operation for Safe Radiation Protection

The lead acrylic radiation protective shields have a lead equivalent of 0.50 mm. Our shields provide excellent optical transmittance, rounded corners & 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.



X-ray protective shields for Portegra2 are with different suspension arm lengths available: Suspension arm length 75 cm (standard)
Suspension arm length 95 cm

Article-No.	Description
OT50001	Transparent acrylic shield OT25B05: dimensions 600 x 760 mm, 800 mm connection bar, Pb 0.50 mm, with contour cut out for positioning over the patient, centrally guided by a removable, height adjustable handle Includes a preset Portegra2 suspension arm OT50U010, 750/910 mm, non-electrical.
OT50001V60	Transparent acrylic shield OT25B050 similar to OT50001, but with 600 mm connection bar
OT50001I	Transparent acrylic shield OT25B05 similar to OT50001, but reversed for left side of patient
OTSTEA1	50 sterile, disposable half covers for OT50001, OT50001V60, OT50001I
STEA-OT5	50 sterile, disposable full covers for OT50001, OT50001V60, OT50001I
OT50002	Transparent acrylic shield OT25B08: dimensions 500 x 390 mm, 800 mm connection bar, Pb 0.50 mm, centrally guided by removable, height adjustable handle Includes a preset Portegra2 suspension arm OT50U020, 750/910 mm, non-electrical.
OT50003	Transparent acrylic shield OT40B04: dimensions 760 x 600 mm, Pb 0.50 mm, laterally guided, with a patient contour cut-out for positioning over the patient Includes a preset Portegra2 suspension arm OT50U030, 750/910 mm, non-electrical.
OT50011	Transparent acrylic shield OT25B22: dimensions 500 x 390 mm, 800 mm connection bar, Pb 0.50 mm, with flexible lead rubber panels in hygienic PVC cover, centrally guided by a removable, height adjustable handle Includes a preset Portegra2 suspension arm OT50U050, 750/910 mm, non-electrical.
OT54001	Transparent acrylic shield OT54B01: dimensions 780 x 900 mm, 700 mm connection bar, Pb 0.50 mm, with a special contour cut out and curtain for radial and lateral procedures, centrally guided by a removable, height adjustable handle, comes with 50 sterile covers (STEA-OT4) Includes a preset Portegra2 suspension arm OT60U030, 750/910 mm, non-electrical.
STEA-OT4	50 sterile, disposable full covers for OT54001
OT80001	Transparent acrylic shield OT40B01: dimensions 400 x 300 mm, Pb 0.50 mm, laterally guided, with flexible lead rubber panels in hygienic PVC cover Includes a preset Portegra2 suspension arm OT50U040, 750/910 mm, non-electrical.
OT80002	Transparent acrylic shield OT40B02: dimensions 500 x 380 mm, Pb 0.50 mm, laterally guided, with flexible lead rubber panels in hygienic PVC cover Includes a preset Portegra2 suspension arm OT60U010, 750/910 mm, non-electrical.
OT80003	Transparent acrylic shield OT40B03: dimensions 760 x 350 mm, Pb 0.50 mm, laterally guided, with flexible lead rubber panels in hygienic PVC cover Includes a preset Portegra2 suspension arm OT50U010, 750/910 mm, non-electrical.
OT4070	Debrun Shield: Large shield solution 1220 x 780 mm, Pb 0.50 mm, stationary mounted, based on GD70 (page 28) with lead acrylic shield, includes a centre contour cut-out and lead rubber panels
OT4075	Debrun Shield: Large shield solution 1220 x 780 mm, Pb 0.50 mm, on track (length = 2.5 m), based on GD75 (page 28) with lead acrylic shield, includes a centre contour cut-out and lead rubber panels

PORTEGRA2

GD70/75

TS
OT
GD
LE
HZ
UT
WD
VH
DGS
GR

MAVIG REUSABLE X-RAY PROTECTIVE DRAPES



ST-FS5AMM for femoral access



ST-RZ5AMM for radial access

Our economical, reusable covers have been ergonomically formed to provide excellent protection, while being as compact as possible for patient comfort. Special attention has also been made to their application, such as the special cutout of the femoral cover for the femoral port, and the gentle slope of the right side of both covers for unobstructed imaging.

With the sterile covers, the protective drapes can be placed on top of the patient drape, allowing for quick placement or removal, and position reference.

Article-No.	Description
ST-FS5AMM	Drape with cutout for femoral access, Pb 0.50 mm. Includes 50 sterile covers.
ST-RZ5AMM	Drape for radial access, Pb 0.50 mm. Includes 50 sterile covers.
STEA-FSAM	50 sterile covers for X-ray protective drape ST-FS5AMM
STEA-RZAM	50 sterile covers for X-ray protective drape ST-RZ5AMM

LEAD FREE DISPOSABLE X-RAY PROTECTIVE DRAPES



Our sterile, single-use patient drapes AS100 are designed for special operation procedures.

The AS100 drape series are available in four different forms, each dedicated to a specific application to maximize protection.

Additionally, the drapes can be ordered in three different protection levels (low, medium and high), depending on clients' needs.

Article-No.	Description
AS1001H	Angio, 15 disposable drapes for angiography via femoral access, high protection
AS1001M	Angio, 15 disposable drapes for angiography via femoral access, medium protection
AS1001L	Angio, 15 disposable drapes for angiography via femoral access, low protection
AS1005H	Multi, 15 disposable drapes for angiography via radial access and other applications, high protection
AS1005M	Multi, 15 disposable drapes for angiography via radial access and other applications, medium protection
AS1005L	Multi, 15 disposable drapes for angiography via radial access and other applications, low protection
AS1007H	Surgery, 15 disposable drapes for electrophysiology, pacemaker and PCNL, high protection
AS1007M	Surgery, 15 disposable drapes for electrophysiology, pacemaker and PCNL, medium protection
AS1007L	Surgery, 15 disposable drapes for electrophysiology, pacemaker and PCNL, low protection
AS1006H	Uro, 5 disposable drapes for lithotomy position, high protection
AS1006M	Uro, 5 disposable drapes for lithotomy position, medium protection
AS1006L	Uro, 5 disposable drapes for lithotomy position, low protection

MONITOR SUPPORT, COMPATIBLE WITH THE PORTEGRA2 SYSTEM



GD4020



GD4021

GD4020 and GD4021

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



Article-No. Description

- GD4020** Adjustable, single monitor holder* for most 15" to 17" displays, VESA adapter 100 mm
- GD4021** Adjustable, single monitor holder* for most 15" to 17" displays, VESA adapter 100 mm with lateral handle

* Monitor holder without extension / spring arm, cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.



GD4210

GD4220



GD4220

GD4210 and GD4220

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



Article-No. Description

- GD4210** Portegra2 Monitor support* Mono for one monitor up to 19", VESA adapter 75 mm or 100 mm
- GD4210-L** Portegra2 Monitor support* Mono for most monitors up to 21"/24", VESA adapter 75 mm or 100 mm
- GD4220** Portegra2 Monitor support* Dual for two monitors up to 19", VESA adapter 100 mm
- GD4220-L** Portegra2 Monitor support* Dual for most monitors up to 21"/24", VESA adapter 100 mm
- GD4220-XL** Portegra2 Monitor support* Dual for most monitors up to 24"/26", VESA adapter 100 mm

* Monitor holder without extension / spring arm, cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.



GD75



GD76



GD75 and GD76 (see pages 27 and 28)

The perfect solution for a 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 monitor alignment for a perfect viewing angle, and positioning grips for easy movement.

Maximum weight load for GD75 up to 29.0 kg / 63.9 lbs
Maximum weight load for GD76 up to 33.0 kg / 72.7 lbs

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

LED-3

LED LAMPS
Modern Illumination for Today's Needs

PORTEGRA2 LAMPS INCLUDING SUSPENSION ARM
Light You Can Rely On

Our lamps 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. Our lamps are NRTL certified and delivered incl. extension/spring arm.



LE70082, -84



LE70041, -43



LE70044, -45



Video Camera

Article-No.	Description	Lux
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LE70041	LED120F, focusable LED examination lamp, sterilizable handle, and power supply unit. Includes suspension arm LE70U550: electrical, 750/910 mm, preset for lamp's weight	40,000
LE70043	LED130F, focusable LED examination lamp, sterilizable handle, and power supply unit. Includes suspension arm LE70U510: electrical, 750/910 mm, preset for lamp's weight	60,000
LE70044	LED2 SC, single colour LED for examination and minor surgery, sterilizable handle, and power supply unit. Includes suspension arm LE70U626: electrical, 750/910 mm, preset for lamp's weight	100,000
LE70045	LED2 MC, multi colour LED for examination and minor surgery, sterilizable handle, and power supply unit. Includes suspension arm LE70U627: electrical, 750/910 mm, preset for lamp's weight	100,000
LE70072	LED3 SC, single colour surgical LED lamp, sterilizable handle, and power supply unit. Includes suspension arm LE70U620: electrical, 750/910 mm, preset for lamp's weight	130,000
LE70074	LED3 MC, multi colour surgical LED lamp, sterilizable handle, and power supply unit. Includes suspension arm LE70U620: electrical, 750/910 mm, preset for lamp's weight	130,000
LE70078V	LED3 MC with video precabbling, multi colour surgical LED lamp, sterilizable handle, and power supply unit, but does <u>not include</u> camera. (see below KAM01HD & KAM01SD) Includes suspension arm LE70U628: electrical, 750/910 mm, preset for lamp's weight	130,000
LE90041	LED120F, focusable LED examination lamp, sterilizable handle, and power supply unit. Includes suspension arm LE90U510: electrical, 950/910 mm, preset for lamp's weight	40,000
LE90043	LED130F, focusable LED examination lamp, sterilizable handle, and power supply unit. Includes suspension arm LE90U510: electrical, 950/910 mm, preset for lamp's weight	60,000
LE90044	LED2 SC, single colour LED for examination and minor surgery, sterilizable handle, and power supply unit. Includes suspension arm LE90U620: electrical, 950/910 mm, preset for lamp's weight	100,000
LE90045	LED2 MC, multi colour LED for examination and minor surgery, sterilizable handle, and power supply unit. Includes suspension arm LE90U620: electrical, 950/910 mm, preset for lamp's weight	100,000
LE90072	LED3 SC, single colour surgical LED lamp, sterilizable handle, and power supply unit. Includes suspension arm LE90U620: electrical, 950/910 mm, preset for lamp's weight	130,000
LE90074	LED3 MC, multi colour surgical LED lamp, sterilizable handle, and power supply unit. Includes suspension arm LE90U620: electrical, 950/910 mm, preset for lamp's weight	130,000

LE70082FA	LED5 SC, single colour surgical LED lamp, sterilizable handle, and power supply unit. Includes a 910 mm long spring arm preset for lamp's weight.	160,000
LE70084FA	LED5 MC, multi colour surgical LED lamp, sterilizable handle, and power supply unit. Includes a 910 mm long spring arm preset for lamp's weight.	160,000

Note: All LED2/LED3/LED5 lamps are equipped with a laser pointer

KAM01HD	HD Camera for LE10078V (see above), 30x (HD) optical zoom, 12x digital zoom, includes remote control for video system
KAM01SD	SD Camera for LE10078V (see above), 36x optical zoom, 12x digital zoom, includes remote control for video system

TS

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GR

LED with Suspension Arm 910/750 mm

LED with Suspension Arm 910/950 mm

Only for HZA

CA

EXTENSION / SPRING ARM FOR EQUIPMENT UP TO 18.0 KG / 39.7 LBS



Portegra2 Suspension Arm

The MAVIG Portegra2 suspension arm provides the mobility needed so that radiation protection and other equipment can always be positioned where required.

Patented Safety Features:

A sophisticated safety collar prevents the separation of the connection joint. This is combined with our safety spring to keep the connection from loosening, allowing a long and trouble-free product life.

As well, a defined breaking point, including an internal safety steel cable, provides controlled safety even in case of heavy collision with other equipment.

MAVIG suspension arms are preset in the factory for the weight of the device it is delivered with.

The MAVIG **PORTEGRA2** Arm Provides Maximum Safety

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

- The long reach capacity with an extension arm of 75 or 95 cm and spring arm of 91 cm
- Multiple load bearing categories: 3.5 – 7.0 kg, 7.0 – 12.0 kg, 12.0 – 18.0 kg
- Shock absorbing, plastic covers to protect from collision damage
- Internal steel cable provides safe support even after many years of service
- Specially designed collar guarantees a firm connection with the shield

PORTEGRA2 EXTENSION / SPRING ARM, 750 / 910 MM, ELECTRICAL FOR LAMPS (page 17)



Article-No.	Description
E-LE75-3570	Weight load 3.5 – 7.0 kg (7.7 - 15.4 lbs)
E-LE75-70120	Weight load 7.0 – 12.0 kg (15.4 - 26.5 lbs)
E-LE75-120180	Weight load 12.0 – 18.0 kg (26.5 - 39.7 lbs)

PORTEGRA2 EXTENSION / SPRING ARM, 950 / 910 MM, ELECTRICAL FOR LAMPS (page 17)



Article-No.	Description
E-LE95-3570	Weight load 3.5 – 7.0 kg (7.7 - 15.4 lbs)
E-LE95-70120	Weight load 7.0 – 12.0 kg (15.4 - 26.5 lbs)
E-LE95-120150	Weight load 12.0 – 15.0 kg (26.5 - 33.1 lbs)

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

Article-No.	Description
E-OT75-3570	Weight load 3.5 – 7.0 kg (7.7 - 15.4 lbs)
E-OT75-70120	Weight load 7.0 – 12.0 kg (15.4 - 26.5 lbs)
E-OT75-120180	Weight load 12.0 – 18.0 kg (26.5 - 39.7 lbs)

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

Article-No.	Description
E-OT95-3570	Weight load 3.5 – 7.0 kg (7.7 - 15.4 lbs)
E-OT95-70120	Weight load 7.0 – 12.0 kg (15.4 - 26.5 lbs)
E-OT95-120150	Weight load 12.0 – 15.0 kg (26.5 - 33.1 lbs)

HYBRID CENTRAL AXIS SYSTEM FOR EQUIPMENT UP TO 21 KG



Hybrid Central Axis

This suspension system is equipped with extra long extension arms to give the system an extended and stable reach. This is especially useful for crowded ceiling space in today's multifunctional rooms like the so called "hybrid rooms" or to keep needed equipment outside of the sterile zone.

The system can support up to two arms, each able to suspend 21 kg. With 360° rotation and multiple arm lengths, the hybrid central axis allows great flexibility for room planning and equipment placement demands.

MOUNTING OPTIONS

Article-No.	Description
HZP01	Mounting plate with three 800 mm distance tubes and interface plate with mounting parts for ceiling column
HZP02	Interface plate with mounting parts for ceiling column

CEILING COLUMNS

Article-No.	Description
HZS200	Ceiling column 200 mm + canopy
HZS300	Ceiling column 300 mm + canopy
HZS500	Ceiling column 500 mm + canopy

EXTENSION ARMS (SINGLE/DUAL)

Article-No.	Description
HZAL1A145	Single extension arm: non electrical, 1450 mm
HZAL1A160	Single extension arm: non electrical, 1600 mm
HZAL1A175	Single extension arm: non electrical, 1750 mm
HZAL1E145	Single extension arm: electrical for lamps - 3 pole contact, 1450 mm
HZAL1E160	Single extension arm: electrical for lamps - 3 pole contact, 1600 mm
HZAL1E175	Single extension arm: electrical for lamps - 3 pole contact, 1750 mm
HZAL2EA145	Dual extension arms: electrical for lamps - 3 pole contact (1450 mm) & non electrical (1300 mm)
HZAL2EA160	Dual extension arms: electrical for lamps - 3 pole contact (1600 mm) & non electrical (1450 mm)
HZAL2EA175	Dual extension arms: electrical for lamps - 3 pole contact (1750 mm) & non electrical (1600 mm)

SPRING ARMS WITH END DEVICES

Article-No.	Description
OT50001FA	Shield OT25B05 (800 mm connection bar) + 910 mm long spring arm preset for shield's weight
OT50001V60FA	Shield OT25B050 (600 mm connection bar) + 910 mm long spring arm preset for shield's weight
OT500011FA	Shield OT25B05 reversed + 910 mm long spring arm preset for shield's weight
OT54001FA	Shield OT54B01 + 910 mm long spring arm preset for shield's weight
OT50003FA	Shield OT40B04 + 910 mm long spring arm preset for shield's weight
OT80002FA	Shield OT40B02 + 910 mm long spring arm preset for shield's weight
LE70043FA	Lamp LED130F + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70044FA	Lamp LED2 SC + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70045FA	Lamp LED2 MC + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70072FA	Lamp LED3 SC + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70074FA	Lamp LED3 MC + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70078VFA	Lamp LED3 MC + video precabing + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70082FA	Lamp LED5 SC + 910 mm long spring arm preset for lamp's weight + power supply unit
LE70084FA	Lamp LED5 MC + 910 mm long spring arm preset for lamp's weight + power supply unit

Note: For full shield and LED lamp descriptions see pages 13 and 17.

TS

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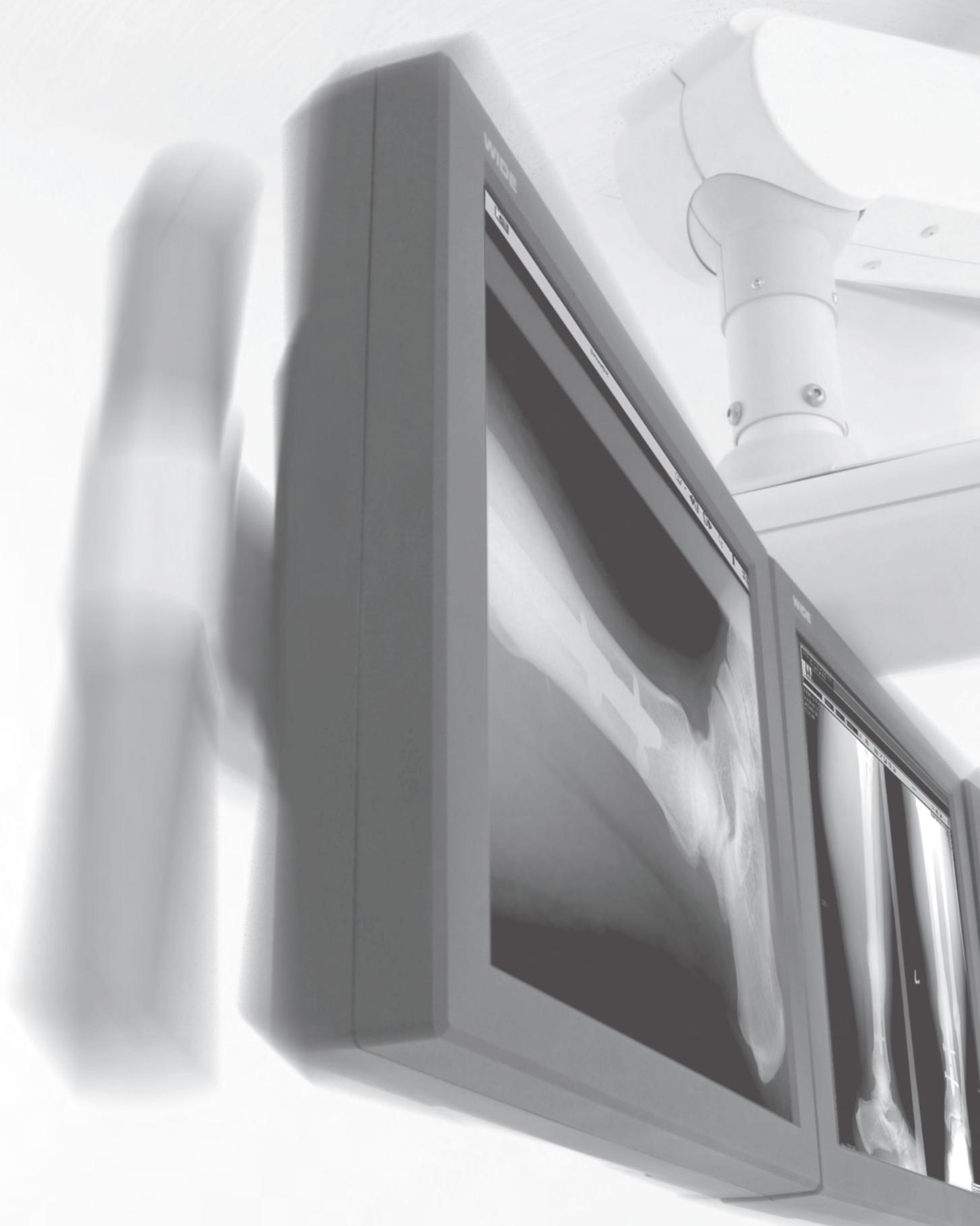
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MONITOR SUSPENSION SYSTEMS

Sleek, Versatile, and Compact



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

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

MAVIG Life Cycle Testing ensures 100% quality of all delivered products.

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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 that the ceiling load capacity is tested by a structural engineer before installing! Installation should only be carried out by qualified personnel.

Note: To deliver the correct modified monitor suspension system we need more specific information of the monitor(s) to be installed.

- Dimensions of monitor(s) incl. frame
- Weight of monitor(s) incl. cables
- Backside drawing of monitor(s) incl. size and position of the VESA adapter

Our specialists will be happy to answer any further questions you may have regarding product selection or installation services.

System/Holder	Cabling	 1 Monitor
 GD40 GD4020, GD4021	External cabling only.	<ul style="list-style-type: none"> ● Stationary mounted ● For MAVIG Track, 335 mm ● Max. weight load < 10.0 kg / 22 lbs
 GD42 GD4210, GD4220	External cabling only.	<ul style="list-style-type: none"> ● Stationary ● For MAVIG Track, 335 mm ● Max. weight load < 9.5 kg / 20.9 lbs
 GD42-L/XL GD4210-L, GD4220-L, GD4220-XL for monitors up to 26"	External cabling only.	<ul style="list-style-type: none"> ● Stationary ● For MAVIG Track, 335 mm ● Max. weight load GD4210-L < 15.4 kg / 34 lbs
 GD70	External cabling only.	<ul style="list-style-type: none"> ● Stationary ● Max. weight load < 25.0 kg / 55.1 lbs
 GD75	External cabling only.	<ul style="list-style-type: none"> ● For MAVIG Track, 335 mm ● Max. weight load < 25.0 kg / 55.1 lbs
 GD72 Please contact MAVIG for regulatory information regarding your territory.	Internally precabled.	<ul style="list-style-type: none"> ● Stationary ● Max. weight load < 34.0 kg / 75.0 lbs
 GD76 Please contact MAVIG for regulatory information regarding your territory.	Internally precabled.	<ul style="list-style-type: none"> ● For MAVIG Track, 335 mm ● Max. weight load < 34.0 kg / 75.0 lbs
 GD65 Please contact MAVIG for regulatory information regarding your territory.	Internally precabled.	
 GD60 (for monitors up to 60" and weight loads up to 120.0 kg / 264.5 lbs upon request)	Internally precabled.	<ul style="list-style-type: none"> ● Stationary ● For MAVIG 710 or OEM Tracks ● Max. weight load < 120.0 kg / 264.5 lbs ● Cardanic joint for smooth movement and collision safety
 MD70 Please contact MAVIG for regulatory information regarding your territory.	Internal cabling optional.	<ul style="list-style-type: none"> ● Mobile cart ● Max. weight load < 27.0 kg / 59.5 lbs

Note: All given weights are the total standard weights of monitors including cables, that can be attached to the monitor holder. GD60 suspension systems for higher weight loads up to 120.0 kg (264.5 lbs) are upon request. (The pictures show only application examples, monitors are not included.)

2 Monitors	3 Monitors	4 Monitors	6 Monitors	8 Monitors
<ul style="list-style-type: none"> Stationary For MAVIG Track, 335 mm Max. weight load < 15.0 kg / 33 lbs 				
<ul style="list-style-type: none"> Stationary For MAVIG Track, 335 mm Max. weight load GD4220-L < 14.5 kg / 32 lbs GD4220-XL < 14.2 kg / 31 lbs 				
<ul style="list-style-type: none"> Stationary Max. weight load < 29.0 kg / 63.9 lbs 	<ul style="list-style-type: none"> Stationary Max. weight load < 27.0 kg / 59.5 lbs Upgrade Kit from two to three monitors available 			
<ul style="list-style-type: none"> For MAVIG Track, 335 mm Max. weight load < 29.0 kg / 63.9 lbs 	<ul style="list-style-type: none"> For MAVIG Track, 335 mm Max. weight load < 27.0 kg / 59.5 lbs Upgrade Kit from two to three monitors available 			
<ul style="list-style-type: none"> Stationary Max. weight load < 33.0 kg / 72.7 lbs 	<ul style="list-style-type: none"> Stationary Max. weight load < 31 kg / 68.3 lbs 			
<ul style="list-style-type: none"> For MAVIG Track, 335 mm Max. weight load < 33.0 kg / 72.7 lbs 	<ul style="list-style-type: none"> For MAVIG Track, 335 mm Max. weight load < 31.0 kg / 68.3 lbs 			
<ul style="list-style-type: none"> Stationary For MAVIG Track, 480 mm Max. weight load < 45.0 kg / 99.2 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG Track, 480 mm Max. weight load < 40.0 kg / 88.2 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG Track, 480 mm Max. weight load < 36.0 kg / 79.4 lbs Cardanic joint for smooth movement and collision safety 		
<ul style="list-style-type: none"> Stationary For MAVIG 710 or OEM Tracks Max. weight load < 35.0 kg / 77.2 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG 710 or OEM Tracks Max. weight load < 32.0 kg / 70.5 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG 710 or OEM Tracks Max. weight load < 48.0 kg / 105.8 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG 710 or OEM Tracks Max. weight load < 62.0 kg / 136.7 lbs Cardanic joint for smooth movement and collision safety 	<ul style="list-style-type: none"> Stationary For MAVIG 710 or OEM Tracks Max. weight load < 79.0 kg / 174.2 lbs Cardanic joint for smooth movement and collision safety
<ul style="list-style-type: none"> Mobile cart Max. weight load < 27.0 kg / 59.5 lbs 	<ul style="list-style-type: none"> Mobile cart Max. weight load < 27.0 kg / 59.5 lbs 			

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

Subject to change. © MAVIG GmbH 11/2014.



Multifunctional, even for Large Monitors
Individual and Efficient

GD60

GD60 – The Versatile Monitor Suspension System

Our patented Cardanic joint, friction free operation, automatic weight balancing, internally precabled, 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 120.0 kg / 264.5 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 tracks
- MAVIG special track, width 710 mm
- Heavy weight loads up to 120.0 kg / 264.5 lbs
(for standard individual weight loads please see pages 22 and 23)
- Quantity of monitors: 1 - 8, and single display sizes up to 60"
- Internally precabled, each cable with a length of 30 m
- 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.

Page 47: Ask about MAVIG's offering of installation services.

MONITOR SUSPENSION (HOLDER FRAME AND SPRING ARM):

Article-No.	Description	Cabling
GD60W-2-F	Supports 2 monitors in a row	Full (earth/ground+power cable, 2x BNC, 1x VGA)
GD60W-2-F/A	Supports 2 monitors in a row	Basic (earth/ground+power cable)
GD60W-3-F	Supports 3 monitors in a row	Full (earth/ground+power cable, 3x BNC, 1x VGA)
GD60W-3-F/A	Supports 3 monitors in a row	Basic (earth/ground+power cable)
GD60W-4.1-F	Supports 4 monitors in a row	Full (earth/ground+power cable, 4x BNC, 1x VGA)
GD60W-4.1-F/A	Supports 4 monitors in a row	Basic (earth/ground+power cable)
GD60W-4.2-F	Supports 4 monitors 2-over-2	Full (earth/ground+power cable, 4x BNC, 2x VGA)
GD60W-4.2-F/A	Supports 4 monitors 2-over-2	Basic (earth/ground+power cable)
GD60W-6-F	Supports 6 monitors 3-over-3	Full (earth/ground+power cable, 6x BNC, 2x VGA)
GD60W-6-F/A	Supports 6 monitors 3-over-3	Basic (earth/ground+power cable)
GD60W-8-F	Supports 8 monitors 4-over-4	Full (earth/ground+power cable, 8x BNC, 2x VGA)
GD60W-8-F/A	Supports 8 monitors 4-over-4	Basic (earth/ground+power cable)
GD60W-W-F/A	Supports monitors over 32" up to 80.0 kg	Basic (earth/ground+power cable)
GD60W-W-P/A	Supports monitors over 32" up to 80.0 kg including a protective frame	Basic (earth/ground+power cable)
GD60W-HL-F/A	Supports monitors over 32" up to 120.0 kg	Basic (earth/ground+power cable)
GD60W-HL-P/A	Supports monitors over 32" up to 120.0 kg including a protective frame	Basic (earth/ground+power cable)
GD60-Z	VESA adapter + 1x BNC cable (30 m) for adding an additional backup monitor	

MANDATORY MOUNTING OPTIONS FOR GD60:


Article-No.	Description
GDD60	Ceiling column (length 60 to 500 mm) including a mounting plate
TS1560	Mounting plate (489 x 412 mm) for GD60 spring arm, pre-mounted
TS1061-SET	Set containing a 2.50 m track, reinforced wagon/trolley, mounting parts and cable trolleys
TS1060-SET	Set containing a 4.25 m track, reinforced wagon/trolley, mounting parts and cable trolleys

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

MONITOR SUSPENSION SYSTEMS

GD65



Please contact MAVIG for regulatory information regarding your territory.

GD65 – The Powerful Monitor Suspension with Maximum Mobility

The GD65 combines the versatile MAVIG track system with the sophisticated MAVIG suspension for two 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. The standard length of column is 300 mm.

- Stationary mounted
- MAVIG ceiling track, width 480 mm
- Max. weight load 45.0 kg / 99.2 lbs
- Quantity of monitors: 2 - 4
- Internally precabled, each cable with a length of 30 m
- 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	Cabling
GD65W-2F	Supports 2 monitors	Full (earth/ground+power cable, 2x BNC, 1x VGA)
GD65W-3F	Supports 3 monitors	Full (earth/ground+power cable, 3x BNC, 1x VGA)
GD65W-4F	Supports 4 monitors	Full (earth/ground+power cable, 4x BNC, 1x VGA)

* Monitor holder without monitor(s).

NOTE: Monitor data sheet will be needed to order the proper suspension arm.

FOR MAVIG CEILING TRACK, WIDTH 480 MM:

Article-No.	Description	Cabling
GD65W-2-TS25	Supports 2 monitors, track length 2.5 m	Full (earth/ground+power cable, 2x BNC, 1x VGA)
GD65W-3-TS25	Supports 3 monitors, track length 2.5 m	Full (earth/ground+power cable, 3x BNC, 1x VGA)
GD65W-4-TS25	Supports 4 monitors, track length 2.5 m	Full (earth/ground+power cable, 4x BNC, 1x VGA)
GD65W-2-TS40	Supports 2 monitors, track length 4.0 m	Full (earth/ground+power cable, 2x BNC, 1x VGA)
GD65W-3-TS40	Supports 3 monitors, track length 4.0 m	Full (earth/ground+power cable, 3x BNC, 1x VGA)
GD65W-4-TS40	Supports 4 monitors, track length 4.0 m	Full (earth/ground+power cable, 4x BNC, 1x VGA)

* Monitor holder without monitor(s).

NOTE: Monitor data sheet will be needed to order the proper suspension arm.

GD72/76


Please contact MAVIG for regulatory information regarding your territory.

GD72 (Stationary) and GD76 (for MAVIG Ceiling Track) – The Smart Monitor Suspension System

Supports a load of up to 33.0 kg (72.7 lbs) with a flexible spring arm and internal cabling, which is generally seen only in larger systems. Thanks to this, the GD72 is a great compact 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. The standard length of column is 600 mm.

- GD72 – Stationary mounted
- GD76 – MAVIG ceiling track, width 335 mm
- Max. weight load 34.0 kg / 75.0 lbs
- Quantity of monitors: 1 - 3
- Internally precabled, each cable with a length of 30 m

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	Cabling
GD72W-1	Supports 1 monitor	Full (earth/ground+power cable, 1x BNC)
GD72W-2	Supports 2 monitors	Full (earth/ground+power cable, 2x BNC)
GD72W-3	Supports 3 monitors	Full (earth/ground+power cable, 3x BNC)
TS1535	Bridge/Support structure for GD72	

* Monitor holder without cabling and monitor(s).

NOTE: *Monitor data sheet will be needed to order the proper suspension arm.*

FOR MAVIG CEILING TRACK, WIDTH 335 MM:

Article-No.	Description	Cabling
GD76W-1TS25	Supports 1 monitor, track length 2.5 m	Full (earth/ground+power cable, 1x BNC)
GD76W-2TS25	Supports 2 monitors, track length 2.5 m	Full (earth/ground+power cable, 2x BNC)
GD76W-3TS25	Supports 3 monitors, track length 2.5 m	Full (earth/ground+power cable, 3x BNC)
GD76W-1TS40	Supports 1 monitor, track length 4.0 m	Full (earth/ground+power cable, 1x BNC)
GD76W-2TS40	Supports 2 monitors, track length 4.0 m	Full (earth/ground+power cable, 2x BNC)
GD76W-3TS40	Supports 3 monitors, track length 4.0 m	Full (earth/ground+power cable, 3x BNC)

* Monitor holder without cabling and monitor(s).

NOTE: *Monitor data sheet will be needed to order the proper suspension arm.*

- TS
- OT
- GD
- LE
- HZ
- 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 display positioning, and gripping handles are provided.

GD75 – The Economic Solution for MAVIG Ceiling Track

The GD75 also contains the features of a curved horizontal rail for perfect viewing angle, aligned display positioning, and gripping handles. Due to its slim design and lower weight, the GD75 can easily be used in pre-installed, MAVIG Portegra2 tracks.

- GD70 – Stationary mounted
- GD75 – MAVIG ceiling track, width 335 mm
- Max. weight load 29.0 kg / 63.9 lbs
- Quantity of monitors: 1 – 3
- Length of the column can be between 200 and 800 mm
- External 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
GD70-1	Stationary monitor support for 1 monitor
GD70-2	Stationary monitor support for 2 monitors
GD70-3	Stationary monitor support for 3 monitors
TS1535	Bridge/Support structure for GD70

* Monitor holder without cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.

FOR MAVIG CEILING TRACK, WIDTH 335 MM:

Article-No.	Description
GD7520-1	Supports 1 monitor, track length 2.5 m
GD7520-2	Supports 2 monitors, track length 2.5 m
GD7520-3	Supports 3 monitors, track length 2.5 m
GD7540-1	Supports 1 monitor, track length 4.0 m
GD7540-2	Supports 2 monitors, track length 4.0 m
GD7540-3	Supports 3 monitors, track length 4.0 m

* Monitor holder without cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.

MONITOR SUPPORT, COMPATIBLE WITH THE PORTEGRA2 SYSTEM



GD4020



GD4021

GD4020 and GD4021

Flexible holder for one display. Double jointed hinge to allow a wide range of different viewing angles. In case of minor collisions, the monitor moves to the side. External cabling. Maximum weight load is **10 kg / 22.0 lbs**



Article-No. Description

GD4020	Adjustable, single monitor holder* for most 15" to 17" displays, VESA adapter 100 mm
GD4021	Adjustable, single monitor holder* for most 15" to 17" displays, VESA adapter 100 mm with lateral handle

* Monitor support without extension / spring arm, cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.



GD4210

GD4220



GD4220

GD4210 and GD4220

Monitor support for one or two displays. External cabling. Maximum weight load is **15 kg / 33.1 lbs**



Article-No. Description

GD4210	Portegra2 Monitor support* Mono for one monitor up to 19", VESA adapter 75 mm or 100 mm
GD4210-L	Portegra2 Monitor support* Mono for most monitors up to 21"/24", VESA adapter 75 mm or 100 mm
GD4220	Portegra2 Monitor support* Dual for two monitors up to 19", VESA adapter 100 mm
GD4220-L	Portegra2 Monitor support* Dual for most monitors up to 21"/24", VESA adapter 100 mm
GD4220-XL	Portegra2 Monitor support* Dual for most monitors up to 24"/26", VESA adapter 100 mm

* Monitor holder without extension / spring arm, cabling and monitor(s).

NOTE: Monitor data sheet and weight of cabling will be needed to order the proper suspension arm.

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

MONITOR SUSPENSION SYSTEMS

CART MD70



MD70-1, MD70-2, MD70-3

Please contact MAVIG for regulatory information regarding your territory.

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 holder to make sure that no excess cables are laying around during or after use.

- Weight load < 27.0 kg / 59.5 lbs
- Supports up to three 19" monitors
- Internal cabling optional



Article-No.

Description

MD-70-1	Monitor cart* for one display
MD-70-2	Monitor cart* for two displays
MD-70-3	Monitor cart* for three displays

* Cart MD70 without cabling and monitor(s).

NOTE: Total monitor dimensions and VESA adaptor location should be given to confirm compatibility.

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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 lower body protector shield 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.

Advantages of MAVIG Lower Body Protectors

- Easy to remove upper shields for uncomplicated patient transfers
- Individual soft lead rubber panels for better movement of the C-arm, higher doctor comfort and easier part replacement
- Angled upper shields for excellent patient access and protection from secondary radiation
- Simple part replacement. All components are exchangeable so that the entire system does not need to be replaced
- Stainless metal components

ADDITIONAL RAIL FOR UT60, AND UT69



All new UT60 and UT69 table mounted shields can now be ordered with an additional rail (E-UT69U036), which fits over the adapter's metal tightening knob. This 150 mm long, 7 x 25 mm profile rail can be used to hang small accessories like an additional protective panel or small joystick.

MAVIC
Pb 0.5 mm

LOWER BODY PROTECTIVE SYSTEM UT60


UT6001

UT60 - Lower Body Protection

The UT60 is MAVIG's answer to table mounted protection for tiltable tables. The lower sway panels self adjust to a table inclination of 15°. A double jointed rail adapter allows the user to place the shield as close as possible to the table to better protect against secondary radiation. The UT60 has been designed so that it can be placed on either side of the table offering a more versatile protection. Now been fitted with MAVIG's universal adapter, the UT60 can be mounted to table rails ranging from 7 x 25 mm to 10 x 30 mm. Model UT6001, with modified panel lengths, has been introduced so that the UT60 can be mounted directly to the table's accessory rail and provide optimal protection.

- Overlapping, flexible X-ray protective panels with PVC covering
- Lead equivalent Pb 0.50 mm
- Two wall mounts included (only UT6001 and UT6020, one for upper and one for lower part)

	UT6001	UT6020	UT6010 (under table)
Heights: <i>Main part</i>	90.0 cm	75.0 cm	72.0 cm
<i>Upper shield</i>	25.0 cm	31.0 cm	
Widths: <i>Overlapping panels</i>	50.0 cm (3 pcs.)	50.0 cm (3 pcs.)	67.0 cm (4 pcs.)
<i>Additional sway panel</i>	29.0 cm	29.0 cm	
			(only for Siemens Artis T-foot table)

Article-No.

Description

UT6001

Lower body protection Model 6260, suitable for 7 x 25 mm to 10 x 30 mm rails

UT6020

Lower body protection Model 6260, suitable for 10 x 25 mm rails, for Siemens Artis T-foot table

UT6010

Additional shield – only for Siemens Artis T-foot table

LOWER BODY PROTECTIVE SYSTEM UT69


UT6901

UT69 - Lower Body Protection

The UT69 offers maximum protection, thanks to the intermediate double articulated joint and additional lateral lead panel (removable). The upper shield can be removed quickly in case of emergency or for comfortable patient positioning.

- Overlapping, flexible X-ray protective panels with PVC covering
- Lead equivalent Pb 0.50 mm
- Height: 90.0 cm Widths: 64.5 cm (main part, 4 overlapping panels)
17.0 cm (additional panel)
- Total width of all lower body protective panels: max. 80.0 cm (overlapping, angle)
- Suitable for table rails ranging from 7 x 25 mm to 10 x 30 mm
- Two separate removable upper shields available, 17.0 / 25.0 cm x 60.0 cm (H x W)
- Two wall mounts included (model dependent, one for upper and one for lower part)



Article-No.

Description

UT6901

Lower body protection Model 6269, two removable upper shields (17.0 cm + 25.0 cm)

UT6902

Lower body protection Model 6269, one removable upper shield (25.0 cm)

UT6904

Lower body protection Model 6269, one removable upper shield (17.0 cm)

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LOWER BODY PROTECTION

LOWER BODY PROTECTIVE SYSTEM UT68



UT68

UT68 - Lower Body Protection

The UT68 has the same design as the UT69, but without the intermediate articulated joint and additional lateral lead panel. The horizontally pivotable adapter can be adjusted as needed for better protection and space for a C-arm.

- Overlapping, flexible X-ray protective panels with PVC covering
- Lead equivalent Pb 0.50 mm
- Height: 90.0 cm Width: 60.0 cm (4 overlapping panels)
- Suitable for 25 x 10 mm rails
- Two separate removable upper shields available, 17.0 / 25.0 cm x 60.0 cm (H x W)
- Two wall mounts included (upper and lower part)



UT68

Article-No. Description

UT6801 Lower body protection Model 6268, includes two removable upper shields (17.0 cm + 25.0 cm)

UT6802 Lower body protection Model 6268, one removable upper shield (25.0 cm)

LOWER BODY PROTECTIVE SYSTEM UT65



UT6502

UT65 - Lower Body Protection

Single jointed lower body protection with flexible overlapping lead rubber panels (Pb 0.50 mm), two removable upper shields to facilitate patient positioning, and a wall mount set for easy storage of the individual components.

- Overlapping, flexible X-ray protective panels with PVC covering
- Lead equivalent Pb 0.50 mm
- Height: 90.0 cm Widths: 60.0 cm (main part, 4 overlapping panels)
32.0 cm (extra lead panel)
- Suitable for 25 x 10 mm rails
- Two separate removable upper shields available, 17.0 / 25.0 cm x 60.0 cm (H x W)
- Two wall mounts included (upper and lower part)



UT6502



UT6501

Article-No. Description

UT6501 Lower body protection Model 6265, UT shield left of rail adapter

UT6502 Lower body protection Model 6265, UT shield right of rail adapter

LOWER BODY PROTECTIVE PANELS UT30



UT30 - Lower Body Protection

The UT30 fills a gap in radiation protection for OP tables. The universal panels can be combined and strategically placed to adapt to multiple situations and user demands. The light weight panels are especially suitable for tables with height adjustable segments.

- Pb Value 0.50 mm
- Lengths: 60.0 cm, 75.0 cm or 90.0 cm; Width: 29.0 cm
- Adapter dimensions: 7 x 25 mm up to 10 x 30 mm
- Panels should be placed to create an overlapping effect

Article-No. Description

UT3060SET	The set contains three panels, each 60.0 x 29.0 cm (L x W), Pb 0.50 mm
UT3075SET	The set contains three panels, each 75.0 x 29.0 cm (L x W), Pb 0.50 mm
UT3090SET	The set contains three panels, each 90.0 x 29.0 cm (L x W), Pb 0.50 mm
UT3060SL	Single panel, 60.0 x 29.0 cm (L x W), Pb 0.50 mm
UT3075SL	Single panel, 75.0 x 29.0 cm (L x W), Pb 0.50 mm
UT3090SL	Single panel, 90.0 x 29.0 cm (L x W), Pb 0.50 mm

LOWER BODY PROTECTIVE SYSTEM UT67



UT67 - Lower Body Protection

MAVIG's economic solution. The shield is made of one large flexible panel with a pivot joint. The upper shield is not removable.

- One flexible X-ray protective panel with PVC covering
- Lead equivalent Pb 0.50 mm
- Height: 90.0 cm (incl. upper shield)
- Width: 45.0 cm

Article-No. Description

UT6701	Lower body protection Model 6267, suitable for 25 x 10 mm rails
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MOBILE SHIELDS

Moveable Protective Shields for Flexible Use

MAVIG produces mobile shields from the most modern protective material in a variety of options. All requirements of equipment and procedural methodology of the operation room, as well as all demands of the personnel have been taken into consideration. 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 WD257, WD302, WD304


Article-No.	Description
WD2571	Steel plate body (Pb 1.00 mm), width: 78.0 cm, height: 104.0 cm Height adjustable lead acrylic shield (Pb 0.50 mm), width: 70.0 cm, overall height: 115.0 - 188.0 cm
WD3021	Steel plate body (Pb 1.00 mm), width: 78.0 cm, height: 78.0 cm Height adjustable lead acrylic shield with contour cutout (Pb 0.50 mm), width: 70.0/110.0 cm, overall height: 143.0 - 190.0 cm
WD3041	Steel plate body (Pb 1.00 mm), width: 78.0 cm, height: 78.0 cm, with an extra lower body protection attachment of overlapping lead rubber panels (Pb 0.50 mm), width: 50.0 cm Height adjustable lead acrylic shield with contour cutout (Pb 0.50 mm), width: 70.0/110.0 cm, overall height: 143.0 - 190.0 cm
E-WD304B02	Side panel upgrade kit, the extra lower panels of the WD3041 which can be mounted to the WD3021

MOBILE RADIATION SHIELD WD261


Body-contoured, individually height-adjustable, mobile radiation protective shield provides mobile X-ray protection in any location where X-ray protection is currently absent or lacks flexibility, leaving your safety at risk and disrupting your work routine.

- Smooth and effortless height adjustment to fit individual needs
- Anatomically formed for a close body fit
- Easy and comfortable control pedal use
- Electrically conductive wheels with brakes (back) and cable deflectors (front)
- Durable and easy to clean outer material: MAVIG ComforTex® HPMF

Dimensions	Height:	1060 mm - 1360 mm
	Width:	635 mm
	Depth:	562 mm
Lead Equivalent		Pb 0.50 mm
Curtain Material		ComforTex® HPMF, Dual Colour Design Mandarin/Titan

Article-No.	Description
WD26105	Mobile radiation shield with Pb 0.50 mm Including one box of sterile disposable covers (STEA-WD261)
STEA-WD261	Sterile disposable covers, 20 pcs./box

* All mobile shields on this page are equipped with electroconductive casters/wheels.

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MOBILE SHIELDS

MOBILE SHIELDS WD300, WD306, WD308



Article-No.	Description
WD300	Curved lead-acrylic shield with side arm cutouts, Pb 0.50 mm, 60.0 x 178.5 cm (W x H) Overall height: 190.0 cm, width: 82.0 cm (base)
WD306/0.5/1000	Mobile protective shield, Pb 0.50 mm, 100.0 x 187.0 cm (W x H) Overall height: 197.0 cm, Base: 137.0 cm x 66.5 cm (W x D)
WD306/0.5/1300	Mobile protective shield, Pb 0.50 mm, 130.0 x 187.0 cm (W x H) Overall height: 197.0 cm, width: 167.0 cm x 66.5 cm (W x D)
WD306/1.0/1000	Mobile protective shield, Pb 1.00 mm, 100.0 x 187.0 cm (W x H) Overall height: 197.0 cm, Base: 137.0 cm x 66.5 cm (W x D)
WD306/1.0/1300	Mobile protective shield, Pb 1.00 mm, 130.0 x 187.0 cm (W x H) Overall height: 197.0 cm, Base: 167.0 cm x 66.5 cm (W x D)
WD308/0.5/800	Mobile protective shield, Pb 0.50 mm, 80.0 x 100.0 cm (W x H) Overall height: 110.0 cm, Base: 117.0 cm x 66.5 cm (W x D)
WD308/0.5/1000	Mobile protective shield, Pb 0.50 mm, 100.0 x 185.0 cm (W x H) Overall height: 195.0 cm, Base: 137.0 cm x 66.5 cm (W x D)
WD308/1.0/800	Mobile protective shield, Pb 1.00 mm, 80.0 x 100.0 cm (W x H) Overall height: 110.0 cm, Base: 117.0 cm x 66.5 cm (W x D)
WD308/1.0/1000	Mobile protective shield, Pb 1.00 mm, 100.0 x 185.0 cm (W x H) Overall height: 195.0 cm, Base: 137.0 cm x 66.5 cm (W x D)

* All given overall heights include the electroconductive casters/wheels.

LOWER BODY PROTECTION WD260


WD260

WD260 - Lower Body Protection

This mobile shield is a great solution for situations when a standard table mounted system can not achieve the protection needed, or for tables that lack accessory rails. Simply roll the WD260 into position and lock in place.

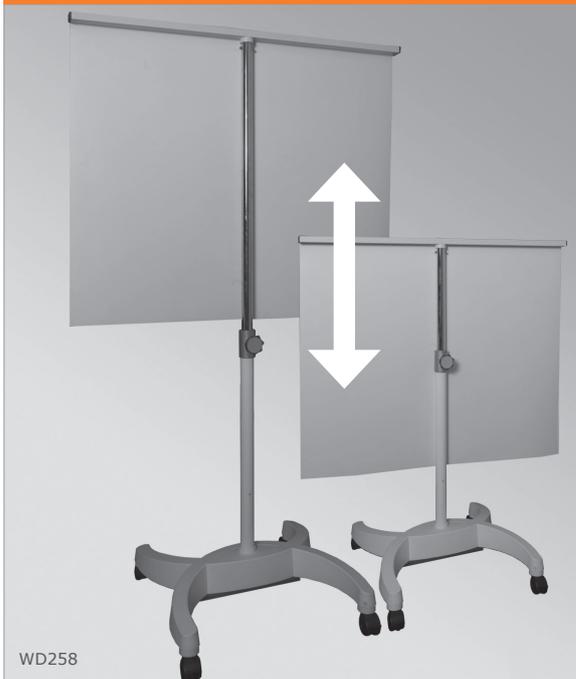
- Overlapping, flexible X-ray protective panels with PVC covering
- Lead equivalent Pb 0.50 mm
- Height: 100.0 cm
- Widths: 60.0 cm (middle part)
20.0 cm (each angled side part)
- Two separate removable upper shields with 17.0 cm or 25.0 cm height available
- Electroconductive casters/wheels for easy maneuverability

Article-No.

Description

WD260/100/81/E

Mobile lower body protection with two removable upper shields (heights: 25.0 cm and 17.0 cm), a 60.0 x 100.0 cm middle section and 20.0 x 100.0 cm angled sections each side, all in Pb 0.50 mm
Width: 83.0 cm, height: 100.0 cm (without upper shields)

MOBILE SHIELDS WD254, WD255, WD258


WD258



WD254



WD255

Article-No.

Description

WD2541B

Foldable protective screen in Pb 1.00 mm, with a middle section (width: 80.0 cm) and two side sections (width: 60.0 cm), overall height 200.0 cm; including a 40.0 x 30.0 cm lead glass window

WD2542B

Foldable protective screen in Pb 2.00 mm, with a middle section (width: 80.0 cm) and two side sections (width: 60.0 cm), overall height 200.0 cm; including a 40.0 x 30.0 cm lead glass window

WD2551B

Mobile protective screen, 100.0 x 200.0 cm (W x H), Pb 1.00 mm, including a 40.0 x 30.0 cm lead glass window

WD2552B

Mobile protective screen, 100.0 x 200.0 cm (W x H), Pb 2.00 mm, including a 40.0 x 30.0 cm lead glass window

WD258

Mobile bed screen 90.0 x 70.0 cm (W x H), height adjustable from 125.0 to 172.0 cm, Pb 0.50 mm
*Customized versions with different dimensions or Pb 1.00 mm are available upon request.
The maximal area of the x-ray protective screen is limited by the load capacity of the pneumatic spring!*

* All given overall heights include the casters/wheels.

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PROTECTIVE CURTAINS

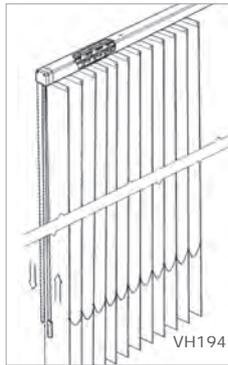
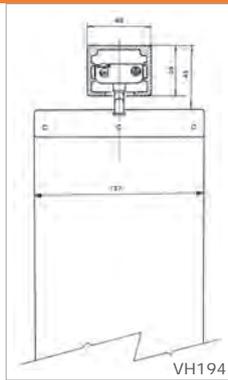
Leading Technology is Embodied in Detail



Room features such as windows, doors, or open spaces provide special challenges in containing radiation.

Let MAVIG help you with our bespoke curtain and blind solutions. Height, length, material, and Pb value can be tailored to your individual requirements for each specific room or building project.

PROTECTIVE CURTAINS VH194NV, VH691



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 should be covered

Please allow an appropriate extra to your calculation on both ends, top and bottom, to ensure adequate protection of the area.

- **Width:** the exact width that should be covered
- Please allow an appropriate 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.

Article-No.

Description

VH194NV

Track guided radiation protective blinds. The 127 mm wide individual protective panels made of natural lead rubber have an easy to clean outer PU-material.
Available Pb values: 0.50 mm, 1.00 mm, 1.50 mm, 2.00 mm, or 2.50 mm

VH691

Track guided radiation protective panels. The 60.0 or 90.0 cm wide multilayer lead rubber segments are protected by a ComforTex HPMF covering.
Available Pb values: 0.50 mm or 1.00 mm

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RADIATION PROTECTIVE WINDOWS both large and small

Working with sensitive materials such as lead acrylic or lead glass is our specialty. Our extensive experience and know-how guarantee quality, 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, that meet the requirements of medical usage. Among our large selection of windows offered, you will certainly find the solution needed that is also simple and easy 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 DGS 81, DGS 83

Model DGS 81 – for finished solid material walls. Consists of a lacquered pure white steel frame in RAL 9010 with an inner-lying radiation protection with Pb 2.00 mm and a high quality lead glass pane (lead equivalencies see below). Optionally a front blind frame is available.

Glass Size	Wall Opening	Pb-Value
(Nominal dimensions)		
800 x 600 mm	870 x 670 mm	1.5 mm 2.1 mm
1000 x 800 mm	1070 x 870 mm	1.5 mm 2.1 mm
1200 x 800 mm	1270 x 870 mm	1.5 mm 2.1 mm
1200 x 1000 mm	1270 x 1070 mm	2.1 mm
1400 x 1000 mm	1470 x 1070 mm	2.1 mm
1600 x 1000 mm	1670 x 1070 mm	2.1 mm
1800 x 1000 mm	1870 x 1070 mm	2.1 mm
2000 x 1000 mm	2070 x 1070 mm	2.1 mm

For orders please provide the thickness of the wall. Non standard sizes/lead equivalencies available upon request.

Model DGS 83 – for dry walls and unfinished solid material walls. Consists of a lacquered pure white steel frame in RAL 9010 with an inner-lying radiation protection with Pb 2.00 mm, as well as a metal shaft brattish for stabilization and to cover the wall opening and a high quality lead glass pane (lead equivalencies see below). Optionally a front blind frame is available.

Glass Size	Wall Opening	Pb-Value
(Nominal dimensions)		
800 x 600 mm	870 x 670 mm	1.5 mm 2.1 mm
1000 x 800 mm	1070 x 870 mm	1.5 mm 2.1 mm
1200 x 800 mm	1270 x 870 mm	1.5 mm 2.1 mm
1200 x 1000 mm	1270 x 1070 mm	2.1 mm
1400 x 1000 mm	1470 x 1070 mm	2.1 mm
1600 x 1000 mm	1670 x 1070 mm	2.1 mm
1800 x 1000 mm	1870 x 1070 mm	2.1 mm
2000 x 1000 mm	2070 x 1070 mm	2.1 mm

For orders please provide the thickness of the wall. Non standard sizes/lead equivalencies available upon request.

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OBSERVATION WINDOWS

RADIATION PROTECTIVE LEAD GLASS

Radiation Protective Lead Glass

High quality, radiation protective lead glass, according to DIN EN 61331-2.

	Pb 1.2 Article No.	Pb 1.5 Article No.	Pb 2.1 Article No.	Pb 2.5 Article No.	Pb 3.0 Article No.	Pb 3.5 Article No.	Pb 4.9 Article No.	Pb 6.1 Article No.
Format (mm)								
400 x 300	GR8410/4030	GR8415/4030	GR8420/4030	GR8427/4030	GR8432/4030	GR8437/4030	GR8551/4030	GR8464/4030
400 x 400	GR8410/4040	GR8415/4040	GR8420/4040	GR8427/4040	GR8432/4040	GR8437/4040	GR8551/4040	GR8464/4040
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	—	—
Thickness (mm)	4.0 - 5.5	5.0 - 7.0	7.0 - 9.0	8.5 - 10.5	10.0 - 12.0	11.5 - 14.0	16.0 - 19.0	20.0 - 23.0
Weight (kg/m ²)	28	35	45	53	61	71	96	116

Pb values measured at 110 kV

The surface of the glass is polished and all edges are chamfered.

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

MOUNTING PARTS FOR GLASS PANES



Mounting kits for installing lead glass in doors and walls.

Each kit includes the following parts:

- Four plastic holders in black
- Four screw anchors for wood screws
- Four 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

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MAVIG

Installation Service

PLANNING • CONSULTING • INSTALLATION



- TS
- OT
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- LE
- HZ
- UT
- WD
- VH
- DGS
- GR

Competent installation of your ordered system by qualified service technician of the manufacturer.

OFFERED SERVICES

- Professional installation of all MAVIG systems
- Inspection, maintenance and repair of existing MAVIG systems
- Replacement of old or outdated systems

QUALIFICATIONS

- Qualified personnel with many years of experience in installation
- Correctly equipped for a fast and professional installation

ROBUST, COMPACT, AND VERSATILE – SYSTEM SOLUTIONS BY MAVIG

Complete personal consultation from planning to equipment installation is our goal. Whether in a hospital or private practice, our specialists can install the below systems quickly and competently:



PORTEGRA²



GD70 / GD75



GD60

For further questions, additional information, or an individualized installation estimate, please contact your MAVIG sales representative or write an e-mail to us at: installation@mavig.com

www.mavig.com

www.mavig.com

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