Component Structure: Individual System Configuration

GD50 – The New Medium-Load Monitor Suspension System
For decades now, MAVIG has been the first choice for monitor suspension systems. These sturdy, high-quality systems are perfectly designed for the daily needs of hospitals and radiology practices.

They offer the maximum in terms of safety and high flexibility. Any brand of monitor can be easily installed and positioned – provided that the monitors have VESA adapter on their back.

Our life cycle testing ensures 100% quality of all MAVIG products.

**Warning:** Before each installation be sure to check that the ceiling has sufficient load-bearing capacity!

The installation work should only be carried out by specialist personnel.

With the increasing number of medical applications and room development, MAVIG has expanded its previous generation of medium-load monitor suspension systems into a versatile product that meets the continuously growing demands.

**Design Details of the GD50**

- Free choice of stationary or ceiling track installation
- Ceiling tracks either 2500 or 4000 mm in length, for greater range and for hybrid operating theatres
- Column lengths of 140 up to 490 mm, suitable for rooms with many different ceiling heights
- Single spring arm option with 1010 mm length
- Alternative option of extension-spring arm combination (1010 mm + 200 mm = total radius of 2210 mm)
- Maximum load capacity (monitor weight) of up to 45.0 kg or 57.0 kg
- 330° rotation on all joints and adjustable rotation stops in 60° steps on the monitor suspension (spring arm – monitor holder)
- Adjustable vertical movement from +40° through to -40° at 45.0 kg load capacity and +28° through to -40° at 57.0 kg load capacity
- Pre-installed power cabling for monitor and earth (grounding) and additional components grounding
- Sufficient space inside (approx. 28 x 31 mm) the system for internal cabling of customer-specific cable sets
- System cabling installed (e.g. DVI, CAT) on request
- Variety of monitor sizes (19 - 32") and quantities (1 - 4) (other monitor sizes upon request)
Overview of Product Options and Guide to Item Codes

Components can be assembled in the manner of a modular system (A + B + C) and can be tailored to your individual requirements. For easy installation and smooth operation, please use this summary to decide which configuration of your GD50 monitor suspension system suits your needs best.

Simple Product Configuration due to MAVIG Modular Structure

- Select the substructure for stationary systems (e.g. for firm ceilings or suspended ceilings / high ceilings)
- Choose from stationary mounting or track system
- Define the requested movement range of the system / monitor holder
- Specify the quantity and dimensions of the monitors to be supported (consider weight category / work load)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
<th>Details</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>aa</td>
<td>Ceiling track</td>
<td>Length 2500 mm</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Ceiling track</td>
<td>Length 4000 mm</td>
<td>40</td>
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<tr>
<td></td>
<td>Without ceiling track</td>
<td>-</td>
<td>00</td>
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<tr>
<td>xx</td>
<td>Ceiling column (for stationary mounting)</td>
<td>Length 140 mm</td>
<td>A1</td>
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<td></td>
<td>Ceiling column (for stationary mounting)</td>
<td>Length 190 mm</td>
<td>B1</td>
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<td></td>
<td>Ceiling column (for stationary mounting)</td>
<td>Length 240 mm</td>
<td>C1</td>
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<td>Ceiling column (for stationary mounting)</td>
<td>Length 290 mm</td>
<td>D1</td>
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<td>Ceiling column (for stationary mounting)</td>
<td>Length 390 mm</td>
<td>E1</td>
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<tr>
<td></td>
<td>Ceiling column (for stationary mounting)</td>
<td>Length 490 mm</td>
<td>F1</td>
</tr>
<tr>
<td></td>
<td>For track columns</td>
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<td>Z0</td>
</tr>
<tr>
<td>b</td>
<td>Ceiling cover/Ceiling column cover (canopy)</td>
<td>Stationary mounting only</td>
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</tr>
<tr>
<td></td>
<td>Without ceiling cover/cover</td>
<td>Track version</td>
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<td>yy</td>
<td>Column with carriage (for track mounting)</td>
<td>Length 140 mm</td>
<td>A1</td>
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<tr>
<td></td>
<td>Column with carriage (for track mounting)</td>
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<td>B1</td>
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<td>Column with carriage (for track mounting)</td>
<td>Length 240 mm</td>
<td>C1</td>
</tr>
<tr>
<td></td>
<td>Column with carriage (for track mounting)</td>
<td>Length 290 mm</td>
<td>D1</td>
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<tr>
<td></td>
<td>Column with carriage (for track mounting)</td>
<td>Length 390 mm</td>
<td>E1</td>
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<td></td>
<td>Column with carriage (for track mounting)</td>
<td>Length 490 mm</td>
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</tr>
<tr>
<td></td>
<td>For stationary columns</td>
<td>-</td>
<td>Z0</td>
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<td>cc</td>
<td>System* only with spring arm</td>
<td>For 30 - 45 kg</td>
<td>1A</td>
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<td>System* only with spring arm</td>
<td>For 45 - 57 kg</td>
<td>2A</td>
</tr>
<tr>
<td></td>
<td>System* with extension and spring arm</td>
<td>For 30 - 45 kg</td>
<td>3A</td>
</tr>
<tr>
<td></td>
<td>System* with extension and spring arm</td>
<td>For 45 - 57 kg</td>
<td>4A</td>
</tr>
<tr>
<td>z</td>
<td>Standard monitor holder</td>
<td>For 1 x 24 - 32&quot;</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Standard monitor holder</td>
<td>For 2 x 24 - 32&quot;</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>Standard monitor holder</td>
<td>For 3 x 19 - 22&quot;</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Standard monitor holder</td>
<td>For 4 x 19 - 22&quot;</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>Standard monitor holder</td>
<td>For 2 x 19 - 22&quot;</td>
<td>E</td>
</tr>
<tr>
<td>dddd</td>
<td>Standard system in RAL9010 (Z1) basic cabling (Z1: power and earthing, 35 m)</td>
<td>Z1Z1</td>
<td></td>
</tr>
</tbody>
</table>

* Ceiling track versions only available with single spring arm

Please Note

All the individual components of the GD50 system are explained in detail on the following pages.

MAVIG will be pleased to provide corresponding PDF or CAD data for room planning.

For support and advice on the various options, please contact us any time.

GD50 System Example

Article-No.: GD5000A11203ABZ1Z1
GD50 with 140 mm long ceiling column, including ceiling cover (canopy), for 2 monitors on the extension/spring arm for 30 - 45 kg, as a standard system in RAL9010 with basic cabling
GD50 STATIONARY SYSTEM

Ceiling Columns for Stationary Mounting with Extension and Spring Arm

- **Standard column lengths:** 140 mm (A1), 190 mm (B1), 240 mm (C1), 290 mm (D1), 390 mm (E1) and 490 mm (F1)
  (additional lengths available on request as custom-made solution)
- **Sturdy 110 mm diameter steel construction**
- **Includes matching two-piece ceiling cover (canopy) Ø 480 mm**

- **Suspension arm:** combined extension and spring arm
  the extension arm provides an additional 1200 mm range

Mounting Plates & Substructures
(IMPORTANT: for stationary systems one of these mounting options has to be chosen!)

**Item no.: HZP03**
Mounting plate, suitable for HALFEN/Unistrut® systems, including fixing accessories for the GD50 ceiling column
(H x W x D: 20 x 740 x 740 mm)

**Item no.: GD60D012**
Short sub-construction, including mounting plate
(variable distance: up to 175 mm)

**Item no.: GD60D022**
Medium sub-construction, including mounting plate
(variable distance: 175 - 610 mm)

**Item no.: GD60D032**
Long sub-construction, including mounting plate
(variable distance: 610 - 1115 mm)
Ceiling Columns for Stationary Mounting with Single Spring Arm

- **Suspension arm:** single spring arm 1010 mm in length

- **Vertical movement**
  - from +40° to -40° at 45.0 kg load capacity and from +28° to -40° at 57.0 kg load capacity;
  - additional stops at -14° and +14° adjustable (e.g. for short columns)

**Work load:**
Choose from

- **Load Capacity**
  - 45.0 or 57.0 kg
  - (weight of monitor holder + monitors etc.)

**System Ranges for Single Spring Arm or Combination of Extension / Spring Arm**

- 1010 mm range
- 2210 mm range
MAVIG Ceiling Tracks
for Columns with Carriage

- Track with on-ceiling insulation and additional earth connection
- Ceiling track length: 2500 mm or 4000 mm
- Ceiling track width: 510 mm (external dimensions)
- Individually adjustable cross struts: maximum distance 800 mm
- Compatible with HALFEN/Unistrut® ceiling systems
- Unique structure profile for the mounting of cable holders (5 cable holders included with each system)
- Cover plates for track ends included

- Repeat order / replacement cable holders
  Set of 3 pieces: article no. TS10B04
  Set of 5 pieces: article no. TS10B04/5

System Range for Single Spring Arm System on a 2500 mm Ceiling Track

2500 mm track length

1010 mm radial range

30° 330°
Columns with Carriage for MAVIG Ceiling Tracks with a Single Spring Arm

- **Carriage column lengths:** 140 mm (A1), 190 mm (B1), 240 mm (C1), 290 mm (D1), 390 mm (E1) and 490 mm (F1) (additional lengths available on request as custom-made solution)
- **Sturdy 110 mm diameter steel construction**
- **Including matching carriage for the track**
- **Suspension arm: single spring arm** 1010 mm in length

**System Range for Single Spring Arm System on a 4000 mm Ceiling Track**

- **Vertical movement**
  - from +40° to -40° at 45.0 kg load capacity
  - and from +28° to -40° at 57.0 kg load capacity;
  - additional stops at -14° and +14° adjustable (e.g. for short columns)
The GD50 monitor holder series is designed to accommodate up to four monitors. There is a choice of three models, which can be equipped with monitors ranging in size of from 19” up to 32”. Internal cabling is provided for the generously-sized MAVIG monitor holders. Adjustable handles and the linear routing of the VESA 100 adapters ensure a high level of flexibility for the size of the monitors and for their positioning.

It goes without saying that all systems offer the same levels of safety and reliability, MAVIG has been renown already for decades.

**Wide Range of Monitor Holders**

**Flexibly Adjustable**

- **Various models:** for 1 - 4 monitors
- **Display sizes** possible up to 32”
  (additional monitor sizes upon request)
- **Max. work load:** up to 47.5 kg
  (depending on model / load capacity)
- **VESA 100 adapter** linear design
  for flexible horizontal positioning
- **Handles** adjustable: +/- 22 cm
- **Cable installation** internal (approx. 28 x 31 mm)
- **Paint colour** RAL9010

**Monitor Holder Model I**

For one monitor from 24 - 32” or for two monitors from 19 - 22”

<table>
<thead>
<tr>
<th>Monitor Holder (Code)</th>
<th>GD50 (A) for 1 monitor</th>
<th>GD50 (E) for 2 monitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended monitor sizes</td>
<td>24 - 32”</td>
<td>19 - 22”</td>
</tr>
<tr>
<td>Monitor dimenions – widths – heights</td>
<td>600 - 995 mm</td>
<td>600 - 930 mm</td>
</tr>
<tr>
<td></td>
<td>550 mm</td>
<td>550 mm</td>
</tr>
<tr>
<td>Max. work load on monitor holders</td>
<td>35.5 kg / 47.5 kg</td>
<td>34.5 kg / 46.5 kg</td>
</tr>
<tr>
<td>(in line with load capacity up to 45 kg or 57 kg)</td>
<td>9.5 kg</td>
<td>10.5 kg</td>
</tr>
<tr>
<td>Monitor holder net weight</td>
<td>1 x VESA 100</td>
<td>2 x VESA 100</td>
</tr>
<tr>
<td>VESA adapters – horizontally adjustable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(additional VESA connections available on request)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

Distances to the centre of VESA adapters
Monitor Holder Model II
For two monitors from 24 - 32" or for three monitors from 19 - 22"

Monitor Holder Model III
For four monitors from 19 - 22"

GD50 (B)
for 2 monitors
- 24 - 32"
- 1150 - 1545 mm
- 550 mm
- 33.2 kg / 45.2 kg
- 11.8 kg
- 2 x VESA 100

GD50 (C)
for 3 monitors
- 19 - 22"
- 1150 - 1520 mm
- 550 mm
- 32.9 kg / 44.9 kg
- 12.1 kg
- 3 x VESA 100

GD50 (D)
for 4 monitors
- 19 - 22"
- 810 - 970 mm
- 665 - 720 mm
- 30.5 kg / 42.5 kg
- 14.5 kg
- 4 x VESA 100

max. 1545
max. 1520
max. 970
max. 720

System with single spring arm for 2500 or 4000 mm long ceiling tracks

Recommended minimum clearance height of 2100 mm

GD50 DRAWINGS
Mounting Plate / Substructures

(IMPORTANT: for stationary systems one of these mounting options has to be chosen! See page 4)

System with extension and spring arm for stationary installation with substructures

(real ceiling)

(suspended ceiling or real ceiling)

Recommended minimum clearance height of 2100 mm

floor
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