

Instructions for use

Ponta

WARNING

To properly use this medical device,
read and comply with these
instructions for use.

This page has been left blank intentionally.


Contents

1	Information about this document	5
1.1	Typographical conventions	5
1.2	Trademarks.....	6
1.3	Abbreviations and symbols.....	6
2	Safety-related information.....	7
2.1	Intended use	7
2.2	Environments of use	7
2.3	Environments of use for accessories.....	7
2.4	Regional availability	7
2.5	Use of terms	7
2.6	User group requirements	7
2.7	Information on safety instructions and precautionary statements...	8
2.8	Safety instructions	9
2.9	Further information	16
3	Product description	17
3.1	Versions.....	17
3.2	Ponta C version	17
3.3	Ponta E plus version.....	18
3.4	Ponta S plus version.....	19
3.5	Ponta C shuttle	20
3.6	Ponta E plus and Ponta S plus shuttle	20
3.7	Shuttle with equipment rack or equipment pole.....	21
3.8	Lighting	22
3.9	Control panel	30
3.10	Accessories	31
3.11	Definitions of load designations	37
3.12	Abbreviations	38
3.13	Symbols	40
4	Assembly and preparation	42
4.1	Preparing the equipment	42
4.2	Establishing the potential equalization connection for the shuttle ..	44
4.3	Connecting IACS components (optional).....	45
4.4	Assembly by the user	46
4.5	Assembly by service personnel	50
5	Getting started.....	60
6	Operation	61
6.1	Moving the shuttle.....	61
6.2	Rotating components on the shuttle	66
6.3	Lighting (optional)	74
7	Troubleshooting.....	79
7.1	Fault – Cause – Remedy	79

8	Reprocessing	81
8.1	Information on reprocessing	81
8.2	Safety information.....	81
8.3	Classifications for reprocessing	82
8.4	Before reprocessing.....	82
8.5	Validated reprocessing procedures	82
8.6	Other agents and reprocessing procedures	83
8.7	After reprocessing.....	85
9	Service	86
9.1	Definition of service terminology.....	86
9.2	Inspection	86
9.3	Maintenance	87
9.4	Repair	88
9.5	Acceptance and handover	89
10	Disposal	90
10.1	Disposing of the device.....	90
11	Technical data	91
11.1	Classification.....	91
11.2	Declaration.....	91
11.3	Ambient conditions	91
11.4	Internal power consumers	92
11.5	Replaceable fuses	92
11.6	Electro-pneumatic brake.....	92
11.7	Device outputs	93
11.8	Media supply.....	98
11.9	Mechanical data.....	98
11.10	Colors	99
11.11	Accessories	99
11.12	Load distribution of accessories	102
11.13	EMC declaration	106
12	Order list	108
	Index	112

1 Information about this document

1.1 Typographical conventions

- Text** Bold, italicized texts indicate labels on the device and screen texts.
- 1. Numbers followed by a period indicate individual action steps in a sequence of actions. Numbering begins with the number 1 for each new sequence of actions.
 - a. Lowercase letters followed by a period indicate subordinate action steps. Numbering begins anew with the letter a. for each new subordinate action step.
 - ▶ This triangle indicates individual action steps with no specific sequence.
 - (1) Numbers in parentheses refer to elements in figures.
 - 1 Numbers in figures indicate elements referred to in the text.
 - Bullet points indicate enumerations.
 - > The greater-than symbol indicates the navigation path in a dialog.
 -  This symbol indicates information that makes it easier to use the product.
 - ⇒ This arrow indicates the result of an action step.
 - ✓ This check mark indicates the result of a sequence of actions.

1.2 Trademarks

1.2.1 Trademarks owned by Dräger

Trademark
Ponta®
Infinity®
Polaris®
IACS™

The following web page provides a list of the countries in which the trademarks are registered: www.draeger.com/trademarks

1.2.2 Trademarks owned by third-party manufacturers

Trademark	Trademark owner
Dismozon®	BODE Chemie
Mediclean®	Dr. Weigert
Neodisher®	
acryl-des®	Schülke & Mayr
Buraton®	
Mikrozyd®	
Perform®	
Sekusept®	Ecolab
Actichlor®	
Dispatch®	Clorox
Descogen®	Antiseptica
OxyCide®	Ecolab USA
Cidex®	SPA
Virkon®	DuPont

1.3 Abbreviations and symbols

Explanations can be found in the sections "Abbreviations" and "Symbols" in chapter "Product description".

2 Safety-related information

2.1 Intended use

The Ponta ceiling supply unit is designed for the following purposes:

- Mounting and spatial positioning of medical devices and accessories for diagnosis and therapy.
- Supplying medical devices with power, medical gases, and vacuum.

2.2 Environments of use

The product is intended for rooms used for medical purposes, in particular for emergency departments, intensive care units, and post-operative areas.

Do not use the device in the following environments:

- In areas where oxygen concentrations over 25 Vol%, or combustible or explosive gas mixtures may occur.
- In rooms with magnetic field applications (e.g., magnetic resonance imaging)
- In operating rooms

2.3 Environments of use for accessories

The products are used in rooms used for medical purposes.

2.4 Regional availability

Some components may not be available in every country. Please contact your local contact person for further information.

The following web page lists the local contact persons: www.draeger.com

2.5 Use of terms

Dräger uses the term "accessories" not only for accessories in the sense of IEC 60601-1, but also for consumables, removable parts, and attached parts.

2.6 User group requirements

The term "user group" describes the responsible personnel who have been assigned by the operating organization to perform specific tasks on the product.

2.6.1 Duties of the operating organization

The operating organization must ensure the following:

- Each user group has the required qualification (e.g., has undergone specialist training or acquired specialist knowledge through experience).
- Each user group has been trained to perform the task.
- Each user group has read and understood the relevant chapters in this document.

2.6.2 User groups

Clinical users

This user group uses the product in accordance with the intended use.

Reprocessing personnel

This user group performs reprocessing activities.

Service personnel

This user group installs the product and performs service activities.

If product-specific skills or tools are required, then the service activities must be performed by specialized service personnel. The specialized service personnel have been trained by Dräger to perform these specific service activities on this specific product.

2.7 Information on safety instructions and precautionary statements

Safety instructions and precautionary statements warn of risks and give instructions for the safe use of the product. Failure to observe them may lead to personal injury or property damage.



2.7.1 Safety instructions

This document contains sections with safety instructions which warn of risks. The type of risk and the consequences of non-compliance are described in each safety instruction.

2.7.2 Precautionary statements

Precautionary statements relate to action steps and warn of risks that may arise when performing the action steps. Precautionary statements precede the action steps.

The following warning signs and signal words indicate precautionary statements and differentiate the possible consequences of non-compliance.


Warning sign	Signal word	Consequences of non-compliance
	WARNING	May result in death or serious injury.
	CAUTION	May result in moderate or minor injury.
	NOTICE	May result in property damage.

2.8 Safety instructions

2.8.1 Instructions for use

Failure to use the product in accordance with the information contained in these instructions for use may result in personal injury and property damage.

- ▶ Follow these instructions for use.
- ▶ Use this product only according to its intended use.
- ▶ Keep these instructions for use close to hand.
- ▶ Follow these instructions for use and those for any products used in conjunction with this product.

 The instructions for use do not contain any information on the following points:

- Risks that are obvious to users
 - Consequences of obvious improper use of the product
 - Potentially negative effects on patients with one or more illnesses
-

2.8.2 Symbols and product labels

Failure to observe symbols and product labels may result in personal injury and property damage.

- ▶ Observe the symbols and product labels.

2.8.3 Device

Electrical installation

Malfunctions may occur if the electrical installation of the supply unit is carried out by unqualified persons. Personal injury and property damage may occur as a consequence.

- ▶ The electrical connection of the supply unit to the power supply may only be carried out by qualified persons.

Operation

The brakes must be released to move the shuttle. The brakes are applied by default so that there is no risk of patient injury due to unintentional movement of the shuttle.

- ▶ Do not lean on the supply unit.
- ▶ The brakes are reactivated automatically after the handles have been released, or 15 seconds after the brakes have been released from the control panel.

Perfect condition of the supply unit

In the event of damage to the supply unit, objects (e.g., parts of a faulty terminal unit, power sockets, stickers, loose flakes of paint) may fall off. Personal injury and property damage may occur as a consequence.

- ▶ The supply unit must be in perfect condition.

Maximum load

Overloading of the device may occur if the maximum load is not observed. The maximum load depends on the customer-specific configuration of the device. The values stated in the instructions for use are maximum values.

- ▶ The maximum load on the supply unit must be checked before each period of operation.
- ▶ The device-specific maximum load is indicated on the information label on the supply unit, on the accessory, or in this document.

Ventilation slots on the supply unit

Covering or blocking the ventilation slots underneath the supply unit and at the terminal units can lead to gas buildup within the supply unit. The consequence of this is a risk of fire and explosion.

- ▶ Make sure that air can pass freely through the ventilation slots at the end of the track.

Ambient conditions

If the ambient conditions (see chapter "Technical data") are not met, condensation may occur in the device, and the life span of the device may be reduced.

Explosions may occur if the device is used in areas with explosive gas mixtures. Personal injury and property damage may occur as a consequence.

- ▶ Do not use the device in areas where explosive gas mixtures may occur.
- ▶ Dräger recommends that permanent climate control be provided for the area, e.g., by means of an air conditioning unit.

Overheating

If objects are placed on the supply beam in the area of the light fittings, the fittings may overheat.

- ▶ Make sure that there are no objects lying on the supply beam.

Penetrating liquid

Penetrating liquid may cause the following:

- Damage to the device
- Electric shock
- Device malfunctions

As a result, the patient could be put at risk.

- ▶ Ensure that no liquid penetrates the device.
- ▶ Do not place any containers containing liquids above or on the device.

Housing

Under the housing, there are live electrical components, which may cause an electric shock.

- ▶ Do not open the housing of the device.

Change to the load situation

A fully equipped (= heavily loaded) ceiling supply unit can be adjusted for a particular working position.

If extreme changes occur to the load situation of the ceiling supply unit during operation and the brake is released, this can result in independent movement of the ceiling supply unit. Personal injury and property damage may occur as a consequence.

- ▶ After an extreme change to the load situation, the ceiling supply unit arm systems must be readjusted (in accordance with the assembly instructions) by specialized service personnel.

Braking

Due to their inertia, fully equipped (=heavily loaded) ceiling supply units require high braking forces. Personal injury and property damage may occur as a consequence.

- ▶ Braking force must be applied by the user, as the ceiling supply unit must not be slowed down with the brakes.
- ▶ Only move the ceiling supply unit as fast as it can be slowed down at any time by the user.

Retrospectively installed assemblies

The use of retrospectively installed assemblies may adversely affect the functional integrity of the product. Personal injury and property damage may occur as a consequence.

- ▶ Retrospectively installed assemblies on the medical device must meet all regulatory and technical requirements and approvals, and lie within the responsibility of the operating organization of the health-care facility.

If assemblies are to be installed retrospectively, contact Dräger to ensure that the assemblies are compatible.

In the case of third-party products, Dräger offers no warranty on parts or function, and accepts no liability.

Retrospective installation may only be performed by professionals.

If this is not taken into account, the functional integrity of the medical device may be compromised.

2.8.4

Accessories

Compatible accessories

The use of incompatible accessories may adversely affect the functional integrity of the product. Personal injury and property damage may occur as a consequence.

- ▶ Use only compatible accessories. The accessories that are compatible with this product are listed in the list of accessories supplied with the product, see chapter "Order list".

Condition of the accessories

An accessory may fall off if it is not securely fastened. Personal injury and property damage may occur as a consequence.

- ▶ Fit accessories to the device in accordance with the accessory's instructions for use, and observe the specifications for the maximum load in chapter Technical data. Observe the instructions for use.
- ▶ Check for secure connection to the device.

2.8.5 Gases and solutions

Ignition sources

Ignition sources (e.g., open flames or sparks) in conjunction with oxygen can result in fires. Persons may be endangered.

- ▶ Keep ignition sources away from the device.

Increased oxygen concentration in the ambient air

Faults in the medical device can increase the O₂ concentration in the ambient air. Consequently, the medical device may catch fire.

- ▶ Do not use the medical device in areas with increased oxygen concentrations.
- ▶ Only operate the medical device in adequately ventilated spaces.

2.8.6 Modifications to the product

Modifications to the product can cause malfunctions and consequently lead to personal injury and property damage.

- ▶ Do not modify this product without permission from Dräger.

2.8.7 Connected devices and device combinations

Any connected devices or device combinations which do not conform to the requirements in these instructions for use may impair the functional integrity of the medical device. Personal injury and property damage may occur as a consequence.

- ▶ Connecting devices that are not mentioned in this document is only permissible with the approval of the respective device manufacturer.

This connection must meet the requirements of the following standards (where applicable):

- IEC 60601-1:2012
- IEC 60601-1-2:2014

- ▶ Before putting this device into operation, observe the instructions for use of all connected devices and device combinations.
- ▶ Observe the contents of all enclosed documents such as instructions for use or installation instructions, etc. This also applies for connected devices and for already installed internal components which have their own documentation such as, e.g., terminal units.

Interfaces

If a conductive interface (e.g., a network port) and the patient are touched simultaneously, the patient may be exposed to touch current.

- ▶ Do not touch conductive interfaces and the patient simultaneously.

Power socket strip

The following risks occur if a power socket strip is connected to a power socket on the supply unit:

- The building fuse may blow due to excessive current consumption by the connected devices
 - Changes to the resistance of the protective ground conductor
 - Bridging of floating circuits (e.g., isolation transformers)
 - Excessive leakage currents
- ▶ Do not connect a power socket strip to a power socket on the supply unit.

Power sockets

If a failure or drop in output of the power supply at the power sockets on the supply unit occurs, there may be a risk of patient injury due to the failure of the medical device.

Each patient workstation contains several independent circuits which are each protected by a fuse.

These circuits can be provided in the same supply unit or by combination with other devices.

The hospital can define, e.g., by color identification, which power sockets are for medical devices and which are for non-medical devices.

- ▶ Only medical devices may be connected to the power sockets for medical devices.
- ▶ Only non-medical devices (e.g., electric shavers, toothbrushes) may be connected to the power sockets for non-medical devices.
- ▶ Patients must be informed which power sockets (if present) are permitted for non-medical devices.
- ▶ Check that the devices are connected to the correct power sockets at least once a day.
- ▶ If a circuit has failed, fault-free medical devices can be connected to a different circuit.

2.8.8 Reprocessing

Reusable products

Reusable products must be reprocessed, otherwise there is an increased risk of infection.

- ▶ Follow the infection prevention policies and reprocessing regulations of the health-care facility.
- ▶ Follow the national infection prevention policies and reprocessing regulations.
- ▶ Use validated procedures for reprocessing.
- ▶ Reprocess reusable products after every use.
- ▶ Follow the manufacturer's instructions for cleaning agents, disinfectants, and reprocessing devices.

Signs of wear, e.g., cracks, deformation, discoloration, or peeling, may occur with reprocessed products.

- ▶ Check products for signs of wear and replace if necessary.

Terminal units and power sockets

There is a risk of fire when combustible cleaning agents are used in the vicinity of terminal units and power sockets.

- ▶ Do not use any combustible cleaning agents in the vicinity of terminal units and power sockets.

Accessories

Even reusable products have a limited life span, e.g., disinfectant residue can attack the material. External signs of wear, e.g., cracks, deformation, discoloration, or peeling, may occur.

- ▶ Check accessories for signs of wear and replace if necessary.

2.8.9 Service

Malfunctions may occur if service activities are not performed regularly. Personal injury and property damage may occur as a consequence.

- ▶ Perform service in accordance with chapter "Service".

The product may be contaminated with infectious agents.

- ▶ Before service is performed and before the product is sent back for repair, reprocess the product in accordance with chapter "Reprocessing".

Hoses

Before initial use and after replacing compressed gas hoses or vacuum hoses in medical supply units, the following checks (among others) must be carried out in accordance with ISO 7396-1 or the applicable national regulations:

- Leakage check
- Blockage check
- Check for solid contamination
- Flow check
- Pressure drop check
- Check for cross-connection
- Check of the gas type

After every replacement of the hoses in the anesthetic gas scavenging system (AGSS), the following checks (among others) must be carried out in accordance with ISO 7396-2 or the applicable national regulations:

- Leakage check
- Flow check
- Pressure drop check
- ▶ The medical devices must not be put into operation if these checks are not passed.

2.8.10

Electromagnetic compatibility (EMC)

Medical electrical equipment is subject to special precautionary measures concerning electromagnetic compatibility. During installation and before initial operation, follow the information in section: "EMC declaration" (page 106).

Electrostatic discharge

When components that bear the ESD warning symbol are handled, protective measures against electrostatic discharge must be complied with. Otherwise, malfunctions may occur that put the patient at risk.

To prevent malfunctions, observe the following measures and train the relevant personnel:

- ▶ Follow the ESD protective measures, such as:
 - Wear antistatic clothing and shoes.
 - Use electrically insulating and antistatic gloves.
 - When establishing connections, touch a potential equalization pin.
- ▶ Observe the requirements for the electromagnetic environment. Observe the following section: "Electromagnetic environment" (page 106).

Electromagnetic disturbances

Wireless communication devices (e.g., cellular phones) and medical electrical equipment (e.g., defibrillators, electrosurgical devices) emit electromagnetic radiation. When such devices are operated too close to this device or its cables, the functional integrity of this device may be compromised by electromagnetic disturbances. As a result, the patient could be put at risk.

- ▶ Maintain a distance of at least 0.3 m (1.0 ft) between this device and wireless communication devices, to ensure that the essential performance of this device is fulfilled.
- ▶ Maintain an adequate distance between this device and other medical electrical equipment.

2.9 Further information

2.9.1 Mandatory reporting of incidents

Serious incidents with this product must be reported to Dräger and the responsible authorities.

2.9.2 Training

Training for users is available via the Dräger organization responsible (see www.draeger.com).

3 Product description

3.1 Versions

The Ponta supply unit is available in three different versions.

Ponta C

- Shuttles with equipment racks or equipment poles
- Media supply in supply beams

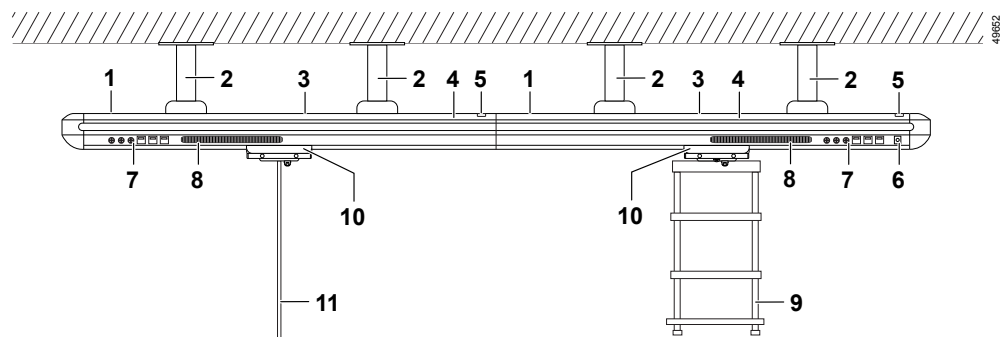
Ponta E plus

- Shuttles with equipment racks or equipment poles
- Shuttles with media column or media head
Media heads can be combined with equipment racks or equipment poles
- Media supply in media column or media head
Additional media supply in supply beam possible

Ponta S plus

- Shuttles with equipment racks or equipment poles
- Shuttles with support arm and media column or media head
Media heads can be combined with equipment racks or equipment poles
- Media supply in media column or media head
Additional media supply in supply beam possible

3.2 Ponta C version

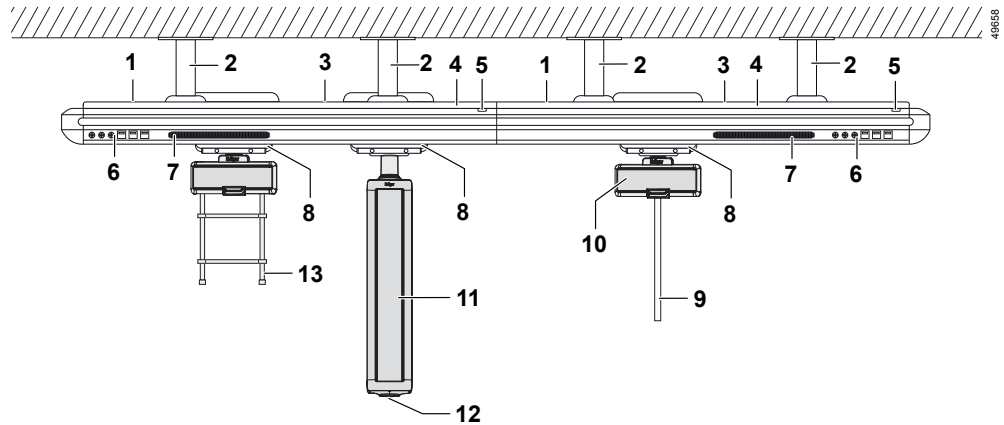


No. Designation

1	Supply beam
2	Ceiling tube
3	Ceiling light (optional)
4	Night light (optional)
5	Rating plate
6	Control panel for RGB light (optional)
7	Terminal units and power sockets
8	Reading light (optional)
9	Equipment rack

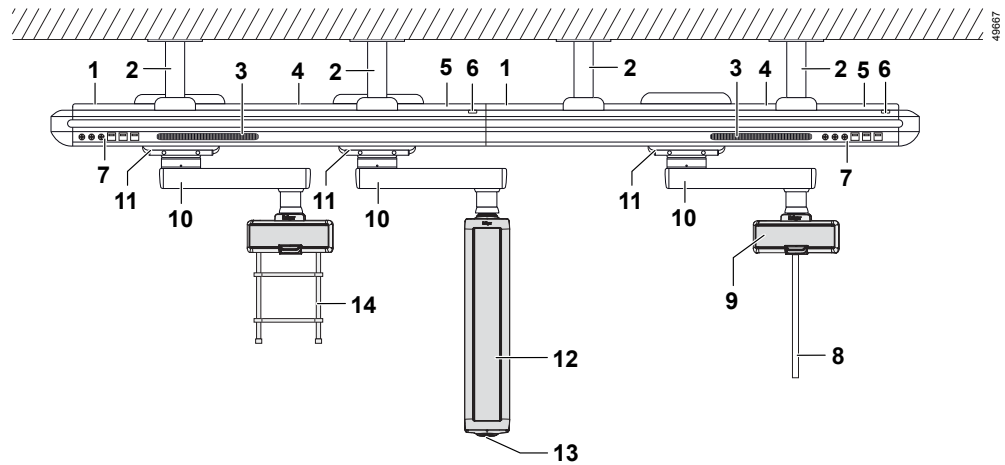
No.	Designation
10	Shuttle
11	Equipment pole

3.3 Ponta E plus version



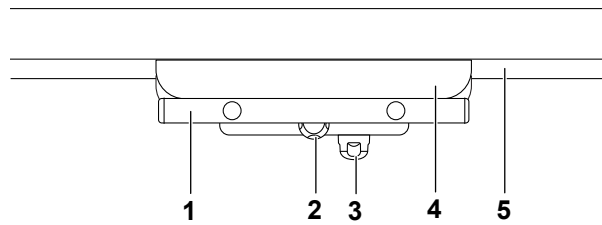
No.	Designation
1	Supply beam
2	Ceiling tube
3	Ceiling light (optional)
4	Night light (optional)
5	Rating plate
6	Terminal units and power sockets
7	Reading light (optional)
8	Shuttle
9	Equipment pole
10	Media head
11	Media column
12	Floor light (optional)
13	Equipment rack

3.4 Ponta S plus version



No.	Designation
1	Supply beam
2	Ceiling tube
3	Reading light (optional)
4	Ceiling light (optional)
5	Night light (optional)
6	Rating plate
7	Terminal units and power sockets
8	Equipment pole
9	Media head
10	Support arm
11	Shuttle
12	Media column
13	Floor light (optional)
14	Equipment rack

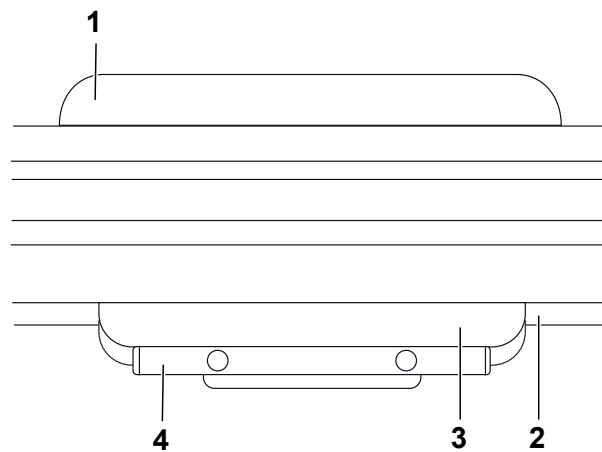
3.5 Ponta C shuttle



48879

No.	Designation
1	Rail
2	Locking screw for mechanical brake on the equipment rack or on the equipment pole
3	Locking screw for mechanical brake on the shuttle
4	Shuttle
5	Track for shuttle

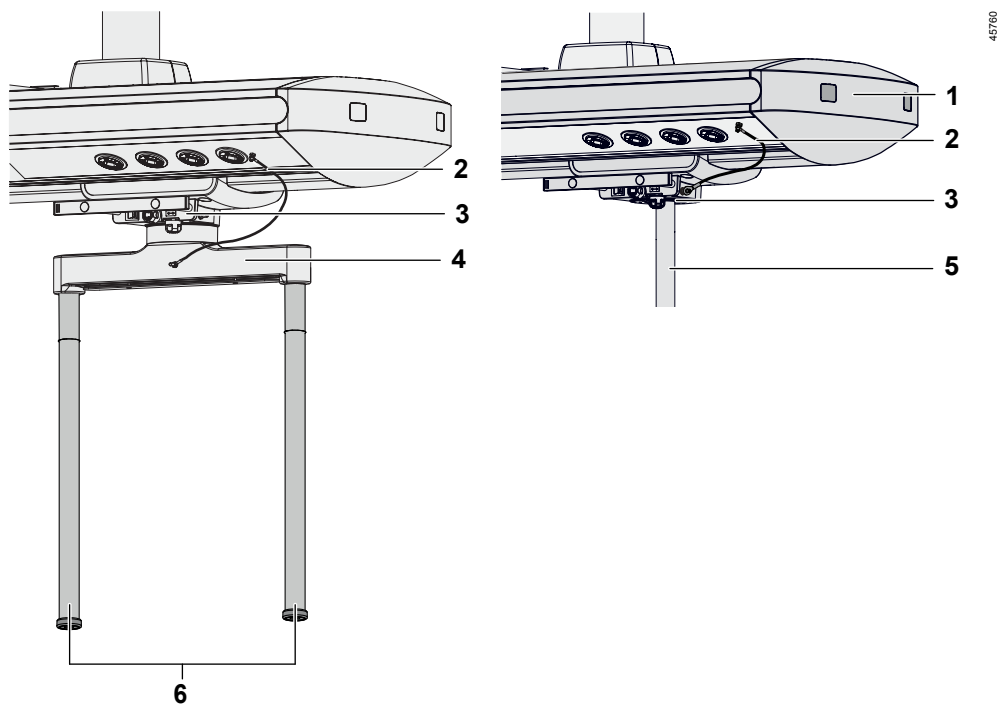
3.6 Ponta E plus and Ponta S plus shuttle



48882

No.	Designation
1	Supply duct
2	Track for shuttle
3	Shuttle
4	Rail

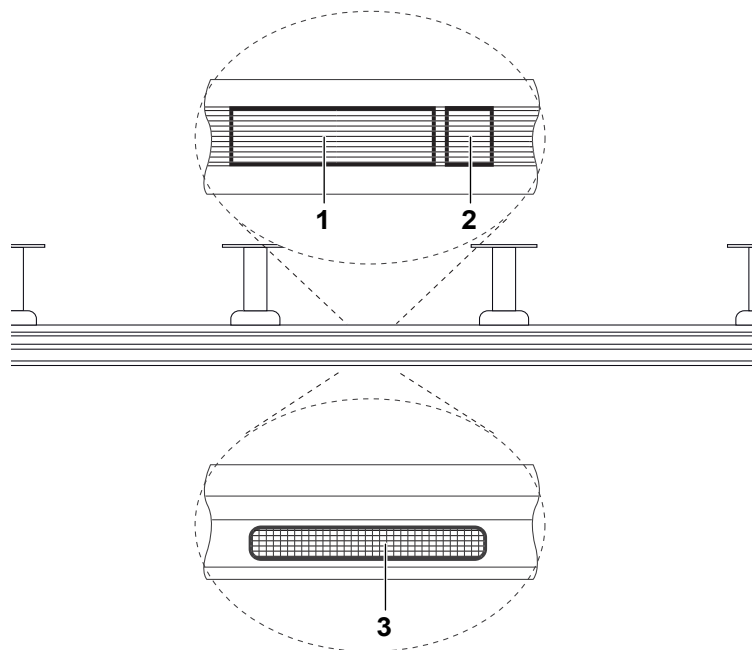
3.7 Shuttle with equipment rack or equipment pole



- | | |
|---|------------------------------|
| 1 | Supply beam |
| 2 | Potential equalization cable |
| 3 | Shuttle |
| 4 | Crossbar |
| 5 | Equipment pole |
| 6 | Equipment rack |

3.8 Lighting

3.8.1 Lighting in the supply beam (optional)



48876

Depending on the model, the supply unit can be equipped with the following lighting:

- Ceiling light (1)
- Night light (2)
- Reading light (3)


i Depending on the model, the lighting is equipped with white or colored bulbs.

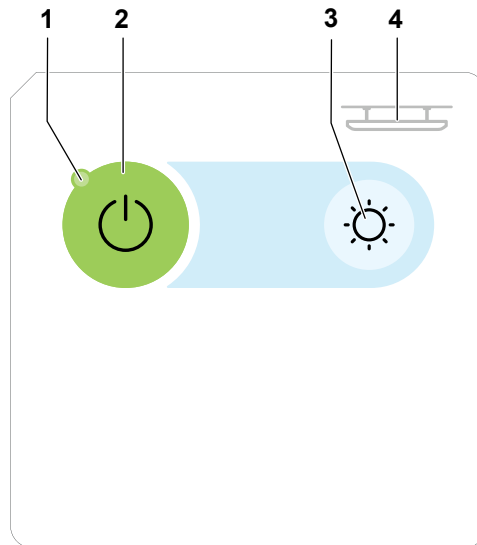
Depending on the model,

- the control panels and switches for operating the lighting are located on the supply beam, on the media head or on the media column.
- switching the lighting on and off via wall switches is possible.

3.8.2 Control panels for the lighting

Control panel for lighting without dimmer function

 Depending on the configuration, the control panels for the lighting are different.

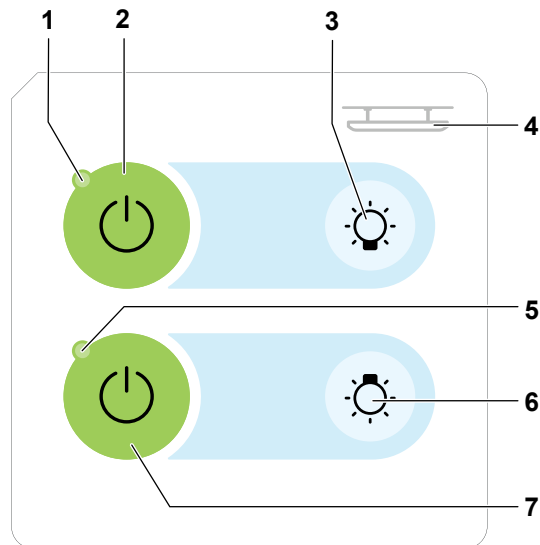


49P086

No.	Designation
1	LED indicating if the light is on/off
2	Key for lighting: On/off
3	Key for lighting: On
4	Symbol for supply beam

In the following illustration, the light control panel for a supply beam with ceiling light or night light and reading light is shown as an example.

46955

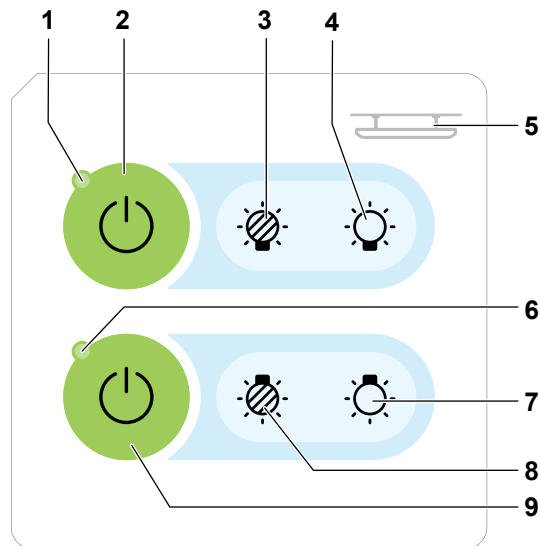


No.	Designation
1	LED indicating if the light is on/off, for ceiling light or night light
2	Key for ceiling light or night light: On/off
3	Key for ceiling light or night light: On
4	Symbol for supply beam
5	LED indicating if the light is on/off, for reading light
6	Key for reading light: On
7	Key for reading light: On/off

Control panel for lighting with dimmer function

 Depending on the configuration, the control panels for the lighting are different.

In the following illustration, the light control panel for a supply beam with ceiling light and reading light is shown as an example.

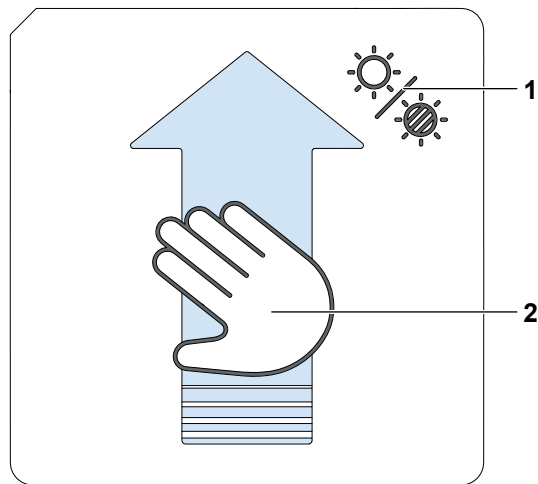


No. Designation

1	LED indicating if the light is on/off, for ceiling light
2	Key for ceiling light: On/off
3	Key for ceiling light: Reduce illuminance
4	Key for ceiling light: Increase illuminance
5	Symbol for supply beam
6	LED indicating if the light is on/off, for reading light
7	Key for reading light: Increase illuminance
8	Key for reading light: Reduce illuminance
9	Key for reading light: On/off

Gesture Control panel (optional)

Lighting can be switched on and off using the Gesture Control panel.

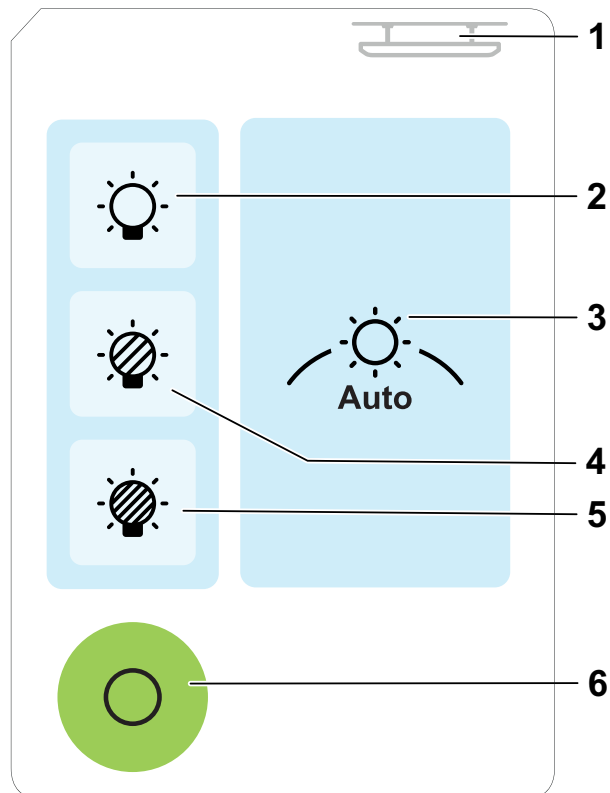


44766

No.	Designation
1	Symbol for switching on and off
2	Sensor area

Daylight cycle control panel (optional)

The ceiling light can optionally be equipped with a daylight cycle function.



49983

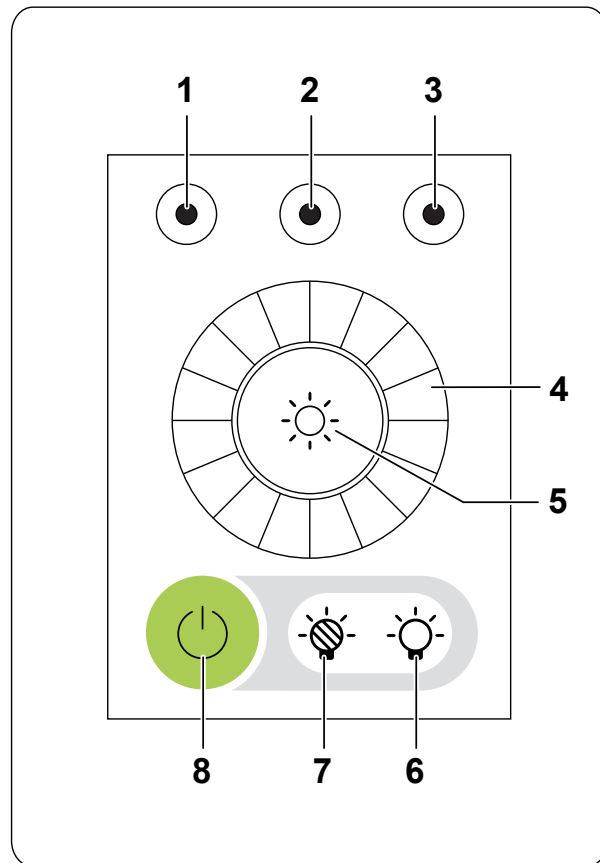
No. Designation

1	Symbol for supply beam
2	Key for full illuminance
3	Key for daylight cycle: On
4	Key for medium illuminance
5	Key for low illuminance
6	Key for ceiling light: Off

i With the daylight cycle, the switch-on time and the switch-off time are synchronized with the daytime color temperature. The switch-on time is at approx. 06:00 am and the switch-off time is at approx. 10:00 pm.

Control panel for RGB light (optional)

The ceiling light can optionally be equipped with RGB light.



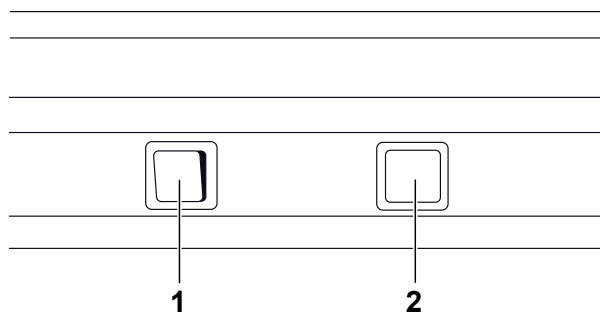
49928

No. Designation

- | | |
|---|---|
| 1 | Key to start/stop the green color progression |
| 2 | Key to start/stop the red color progression |
| 3 | Key to start/stop the blue color progression |
| 4 | Color selection wheel |
| 5 | Key to switch white light on and stop color progression |
| 6 | Key to increase illuminance |
| 7 | Key to reduce illuminance |
| 8 | Key to switch RGB light on/off |

3.8.3 Switches for the lighting

The following illustration shows the possible types of switch in a supply beam.

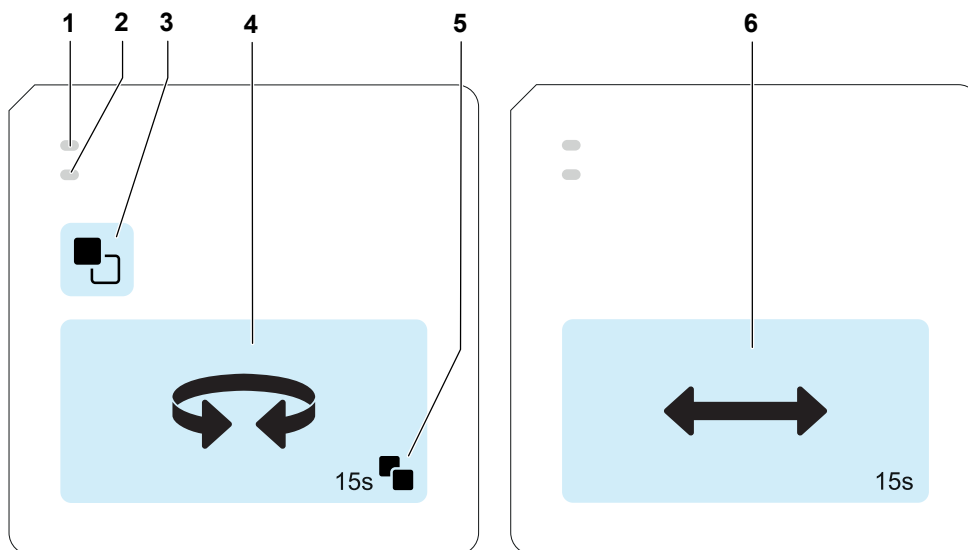


50044

No.	Designation
1	Switch
2	Switch with dimmer function

3.9 Control panel

The control panel for the Ponta S plus (left illustration) and the Ponta E plus (right illustration) are shown as examples in the following.



No.	Designation
1	Device LED
2	Connecting mode LED
3	Key for releasing the brake on the shuttle and the brake on the media head or media column for 15 seconds each
4	Key to release all brakes
5	Symbol to indicate that all brakes are released for 15 seconds after key 4 and key 6 are actuated.
6	Key to release all brakes for 15 seconds

LEDs in the control panel


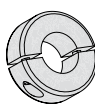
The status is indicated by the **Device LED** (1) and the **Connecting mode LED** (2) respectively.

Device LED	Status
Lit continuously in green	Ready for operation
Flashing green	Ready for operation and the brakes have been released.
Off	Not ready for operation
Lit in red	Fault, see chapter "Troubleshooting"


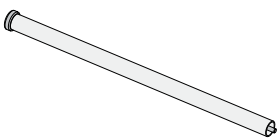
Connecting mode LED	Status
Flashing blue	The device is in connecting mode, i.e., additional control elements can be connected to the device, see chapter "Assembly and preparation".
Lit in orange	The connection has been successfully completed.
Off	The device is not in connecting mode.

3.10 Accessories





3.10.1 Small equipment poles

Part name	Illustration
Small equipment pole (G15676) (G15677) (G15678)	
Retaining ring (2 pcs.) (G19015)	

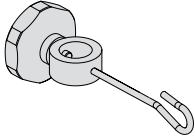
3.10.2 Equipment poles

Part name (Part number)	Illustration
Equipment pole (G47468) (G47469) (G47470) (G47471)	
Equipment pole with threaded rod (G19340) (G47138) (G23201)	

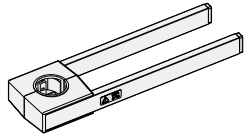
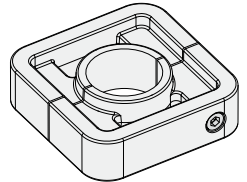
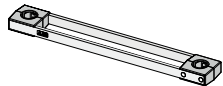
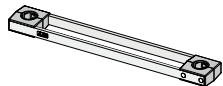
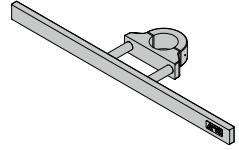
3.10.3 Infusion poles

Part name (Part number)	Illustration
Infusion pole with bottle cross, 4 hooks (G15020)	
Infusion pole with bottle bar, 4 hooks (G19170)	
Infusion pole, tilted, with bottle bar, 4 hooks (G97070)	
Retaining ring (2 pcs.) (G19015)	

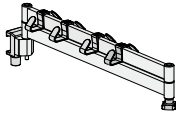

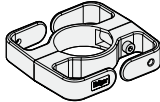
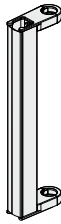
3.10.4 Infusion holder

Part name (Part number)	Illustration
Infusion holder, 1 hook (G14366)	

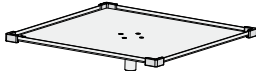
3.10.5 Special rails

Part name (Part number)	Illustration
Double rail for equipment pole (G13450)	
Compact rail (G98530) (2M85337)	
Double rail for equipment rack (G47214) (G47215)	
Fairfield double rail for equipment rack (G47580) (G47582)	
Standard rail, 400 mm, for equipment pole (2M86185)	

3.10.6 Cable management

Part name (Part number)	Illustration
Cable management arm (G13040)	
Holder on rail for cables and hoses (G15225)	
Holder on equipment pole for cables and hoses (G13171)	
Cable management for equipment pole (G47078) (G39991) (G47079)	

3.10.7 Shelves

Part name (Part number)	Illustration
Shelf with central attachment (G15390)	

Part name (Part number)	Illustration
Shelf for small equipment pole (G15185)	

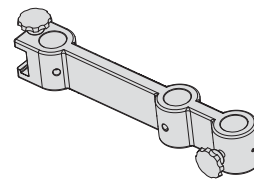
3.10.8 Swivel cabinets

Part name (Part number)	Illustration
Swivel cabinet (G90150) (G90158)	

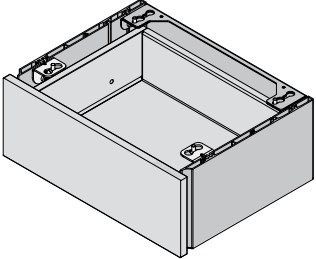
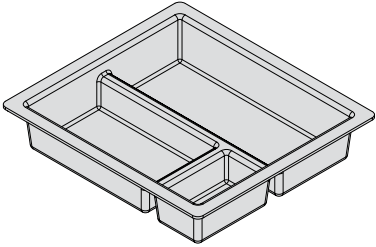
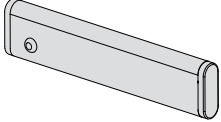
3.10.9 Connecting elements

Part name (Part number)	Illustration
Rail holder, short (G13822)	

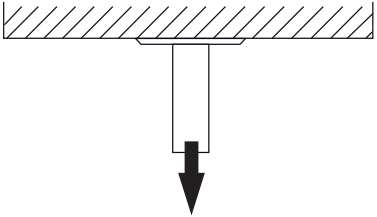
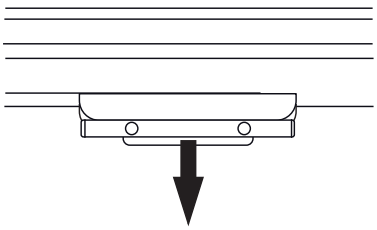
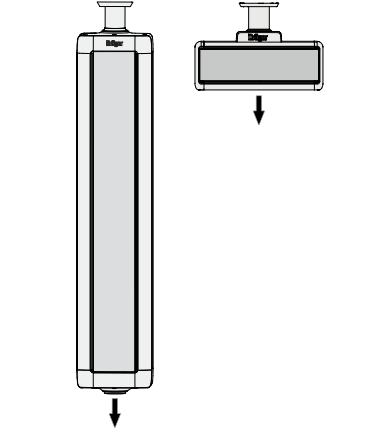
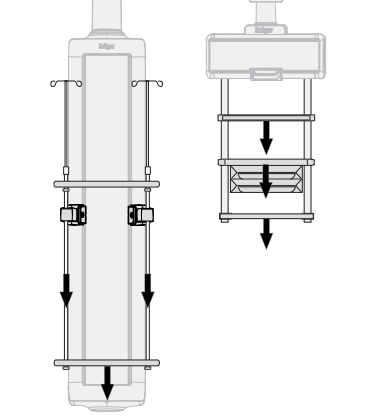
Rail holder, long
(G13821)



3.10.10 Drawers

Part name (Part number)	Illustration
Drawer (GG53093) (GG53094) (GG53095) (GG53096) (GG53097)	
Insert for drawer (G47290) (G47291) (G47292)	
Drawer light (GG53313)	

3.11 Definitions of load designations



















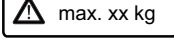
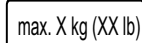



System parts	Load designation	Definition	Position
Ceiling tube	Maximum load capacity	Maximum load that a ceiling tube can support.	
Supply beam with shuttle	Maximum load	Maximum load that can be applied to the shuttle.	
Media head Media column	Maximum load	Maximum load that can be applied to the media head or the media column.	
Equipment rack Shelves	Payload	Maximum load minus the dead weight of the equipment racks / shelves.	








3.12 Abbreviations

Abbreviation	Explanation
A	Ampere
AC	Alternating current
AGS	Anesthetic gas receiving system
AGSS	Anesthetic gas scavenging system
Air	Medical compressed air
Air (800, Instr.)	Compressed air for operating surgical tools
APR	Accident prevention regulations
bar	bar
BLE	Bluetooth Low Energy
CE	Conformité Européenne European conformity
CISPR	Comité International Spécial des Perturbations Radioélec- triques International special committee on radio interference
CO ₂	Carbon dioxide
CSA	Canadian Standards Agency
CSU	Ceiling supply unit
dB(A)	Sound pressure level, A-weighted
DC	Direct current
DIN	Deutsches Institut für Normung (German standardization orga- nization)
ECG	Electrocardiogram
EMC	Electromagnetic compatibility
EN	European standard
ESD	Electrostatic discharge
FCC	Federal Communications Commission
FDA	Food and Drug Administration
HF	High-frequency
hPa	Hectopascal
Hz	Hertz
IACS	Infinity Acute Care System
IC	Intensive care
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
kg	Kilogram
kPa	Kilopascal
LAN	Local Area Network
lb	Pound, unit of mass

Abbreviation	Explanation
LED	Light-emitting diode
mbar	Millibar
min	Minute
MPa	Megapascal
N ₂	Nitrogen
N ₂ O	Nitrous oxide
NFPA	National Fire Protection Association
Nm	Newton meter
O ₂	Oxygen
O ₂ 93	Gas mixture with oxygen content between 90 and 96 percent
PA	Potential equalization
Pa	pascal, unit of pressure
PCB	Printed circuit board
PE	Protective earth
Pmax	Pressure limitation
PSU	Power supply unit
QR code	Quick Response Code
SDMI	Shanghai Draeger Medical Inc.
SELV	Safety extra-low voltage
SU	Supply unit
TU	Terminal unit
UMDNS	Universal Medical Device Nomenclature System Nomenclature for medical devices
V	volt
VAC	Vacuum (suction)
W	watt
WAGD	Anesthetic gas scavenging (Waste Anesthetic Gas Disposal)
WSC	Work station component

3.13 Symbols

Symbol	Explanation
	Follow the instructions for use
	Caution
	Manufacturer
	Lot number
	Date of manufacture
	ESD warning symbol
	Storage temperature range
	Relative humidity
	Atmospheric pressure
	Part number
	Revision index
	Serial number
	Quantity
	Information on disposal WEEE label, Directive 2002/96/EC
	Observe the instructions for use
	Potential equalization connector
	Caution! Polaris light also swivels
	Labeling of respective circuit for power socket
	Caution! Observe maximum load
	Observe the maximum load, see "Technical data" on page 91.
	Weight: Load
	Weight: Dead weight
	Do not lean against

Symbol	Explanation
	The product is a medical device (CE conformity assessment procedure)
	Protect against moisture
	Fragile, handle carefully
	Position the package so that the arrows point upwards.
	Do not stack packages
	Open package here
	Alternating voltage

4 Assembly and preparation

4.1 Preparing the equipment

4.1.1 Positioning the equipment

⚠ WARNING

Risk of overloading the supply unit

If the supply unit is overloaded, personal injury and property damage may result.

- ▶ The maximum load on the supply unit must be observed.
- ▶ The maximum load on the supply unit must be checked before each period of operation.
- ▶ When positioning the intended devices, do not exceed the maximum load of the supply unit and the individual devices.
When calculating the maximum load of the supply unit, the dead weight and loads of accessory parts such as arms and shelves must be deducted.
- ▶ Due to the modular construction, the maximum load and torques must be recalculated for each configuration of the supply unit with its associated accessories.

⚠ CAUTION

Risk of personal injury and property damage

Asymmetric loading of the equipment rack may cause it to rotate independently.

- ▶ When positioning the intended devices, make sure that the equipment rack is loaded symmetrically.

-
1. Position the intended devices on the equipment rack below the media head or on the media column.
 2. Align the devices on the equipment rack. The equipment rack must be evenly loaded.
- ✓ The devices are positioned.

4.1.2 Connecting the electrical devices

⚠ WARNING

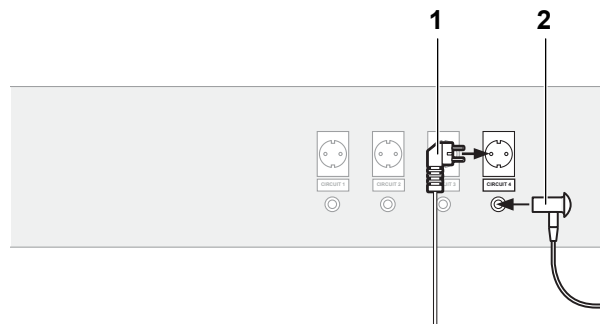
Risk of device malfunction

If a connected device causes the building fuse for its particular circuit to blow, all other devices connected to the same circuit will also be without power and patients will be endangered.

Each patient workstation has several independent circuits which are each protected by a fuse.

- ▶ Device combinations must meet the requirements of these instructions for use, see "Connected devices and device combinations".

i To prevent unintentional operation of the control elements, make sure that all cables and hoses are a sufficient distance away from the control elements. Cable management arms, for example, can be used to ensure adequate clearance.



No.	Designation	Information
1	Power plug	Connected power plugs must not be hidden by workstation components such as shelves or drawers, etc.
2	Potential equalization cable	The potential equalization cable must meet the requirements of the IEC 60601-1 standard. The potential equalization connection must be established to ensure that all metallic conducting surfaces are at the same electrical potential.

1. Connect the power plugs (1) of the devices to the power sockets on the supply unit.
 2. Connect the potential equalization cable (2) to the potential equalization socket.
- ✓ The electrical devices are connected.

4.1.3 Connecting to the gas supply

⚠ WARNING

Increased risk of fire

Some gases (e.g., oxygen, nitrous oxide) are self-igniting when under pressure and in contact with oil or grease. Persons may be endangered.

- ▶ Connections must not come into contact with oil, grease, or combustible fluids (e.g., combustible cleaning agents).

Observe the instructions for use for the terminal units and the associated supplements.

4.1.4 Connecting to the anesthetic gas scavenging system (optional)

Observe the instructions for use for the anesthetic gas scavenging system (AGSS) and the associated supplements.

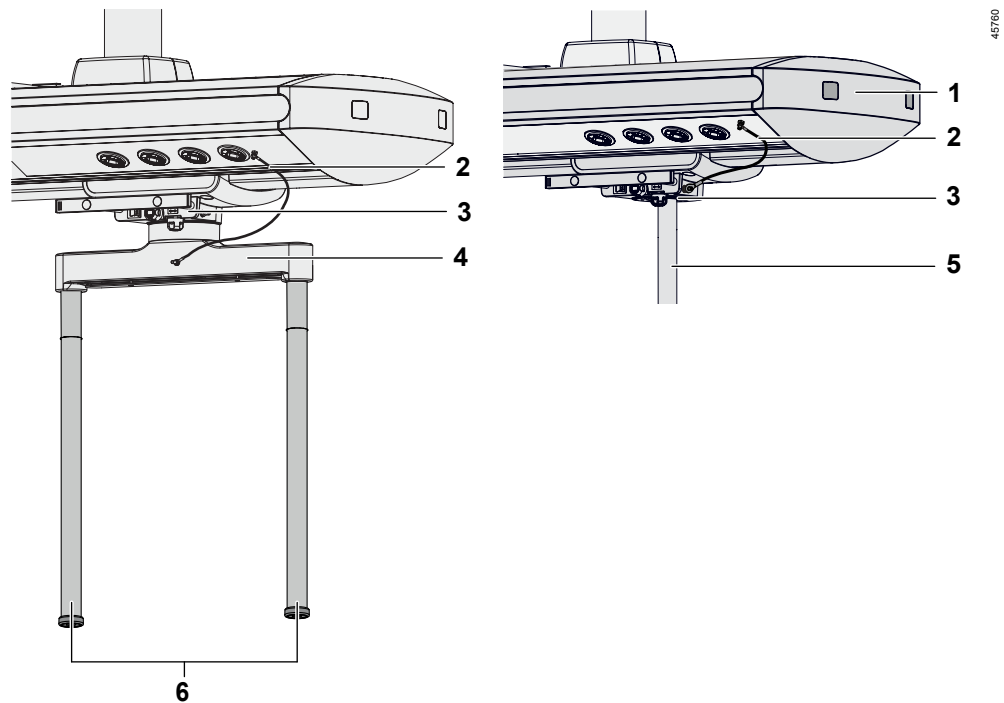
4.1.5 Connecting to the AIR motor (optional)

Observe the instructions for use for the AIR motor and the associated supplements.

4.2 Establishing the potential equalization connection for the shuttle

The potential equalization connection must be established to ensure that all metallic conducting surfaces are at the same electrical potential.

The potential equalization cable must meet the requirements of the IEC 60601-1 standard.



- | | |
|---|------------------------------|
| 1 | Supply beam |
| 2 | Potential equalization cable |
| 3 | Shuttle |
| 4 | Crossbar |
| 5 | Equipment pole |
| 6 | Equipment rack |

1. Connect one end of the potential equalization cable (2) to the potential equalization socket on the shuttle (3).
 2. Connect the other end of the potential equalization cable (2) to the potential equalization socket on the supply beam (1).
- ✓ The potential equalization connection is established.

4.3 Connecting IACS components (optional)

4.3.1 Connecting IACS components to the IACS system cable

- The IACS system cable may only be used in combination with the Infinity C700 medical display, the Infinity M540 patient monitor, and the Infinity PS250 or Infinity P2500 power supply unit.
- The Infinity C700 display must be connected directly to the Infinity PS250 or Infinity P2500 power supply unit with the IACS system cable. The IACS system cable can be a maximum of 4.5 m (177.2 in) long.
- If several patient beds are supplied from one supply unit, Dräger recommends labeling the associated power sockets for the IACS system cable. There is an area provided on the power sockets for labeling.

4.3.2 Interfaces

Information on the interfaces can be found in the instructions for use for the corresponding IACS component.

4.3.3 Information labels

Information on the information labels can be found in the instructions for use for the corresponding IACS component.

4.4 Assembly by the user

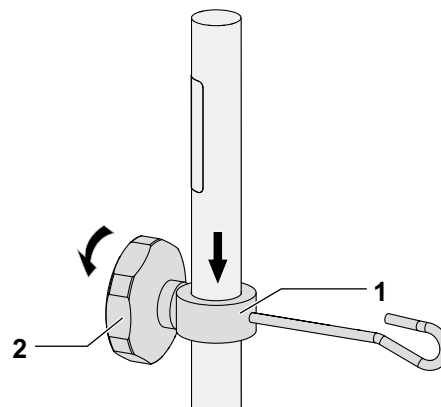
The following section describes the attachment of accessories that can be fitted by the user.

4.4.1 Accessories for small equipment pole

Among other things, an infusion holder with one hook, a shelf, or a rail holder can be attached to small equipment poles. For further information see: "Order list", page 108.

4.4.1.1 Infusion holder with one hook

1. Slide the infusion holder with one hook (1) over the small equipment pole from above.

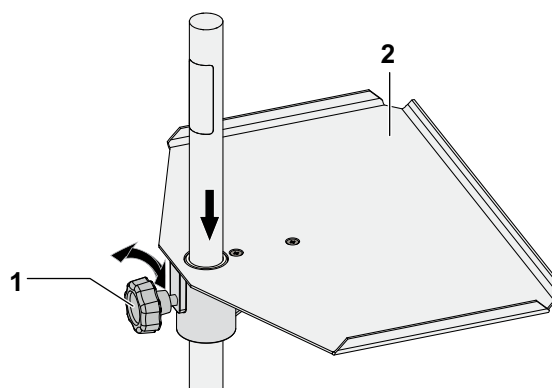


47561

2. Set the infusion holder to the desired height.
3. Tighten the locking screw (2) by hand.

4.4.1.2 Shelf for small equipment pole

1. Loosen the locking screw (1).

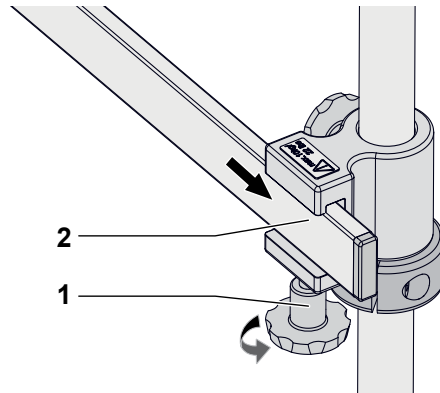


47562

2. Slide the shelf (2) over the small equipment pole from above and set it to the desired height.
3. Tighten the locking screw (1) by hand.

4.4.2 Standard rails

1. Loosen the locking screw (1).



49186

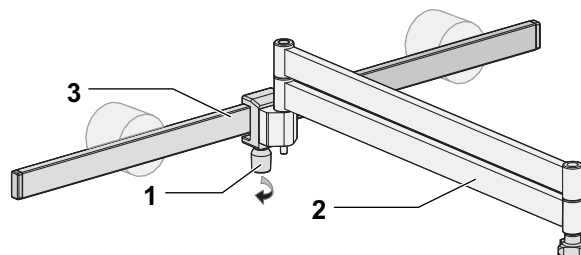
2. Slide the standard rail (2) into the slot in the rail holder from the left or the right.
3. Tighten the locking screw (1) by hand.

4.4.3 Accessories for standard rails

Among other items, accessories for cable management, or a rail holder and the associated shelf can be attached to standard rails.

4.4.3.1 Cable management arm

1. Loosen the locking screw (1) by hand.
2. Set the cable management arm (2) on the standard rail (3).

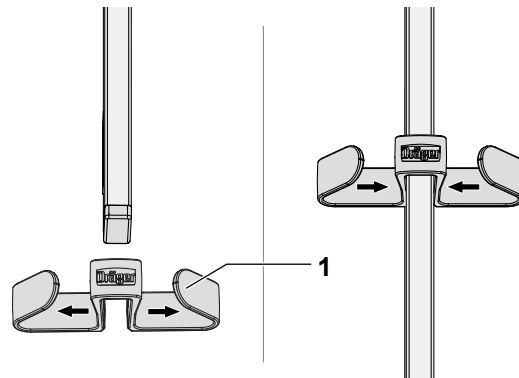


47566

3. Tighten the locking screw (1) by hand.

4.4.3.2 Holder on cable management arm

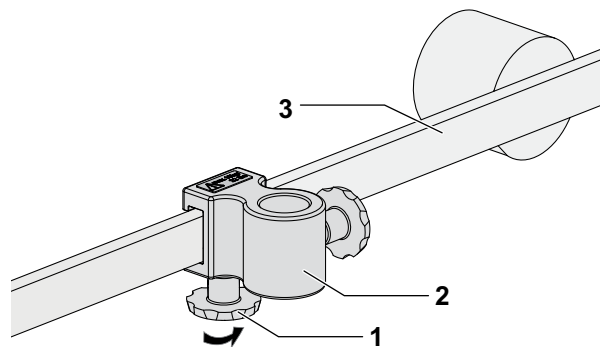
1. Using 2 fingers, pull the holder apart at the hooks (1) for cables and hoses.



2. Push the holder onto the cable management arm and release the hooks.

4.4.3.3 Rail holder, short

1. Loosen the locking screw (1).



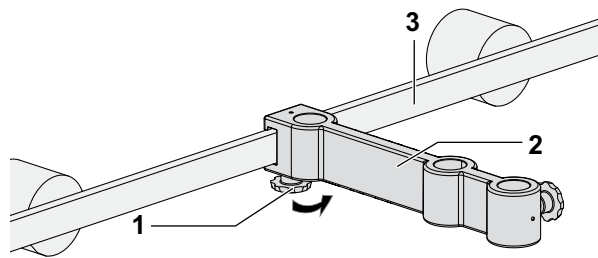
2. Place the rail holder (2) on the standard rail (3) and align it.
3. Tighten the locking screw (4) by hand.

If the rail holder has been attached to a standard rail, the following accessories can be attached:

- Small equipment pole (see "Small equipment poles", page 55)
- IV poles (see "Infusion poles", page 57)

4.4.3.4 Rail holder, long

1. Loosen the locking screw (1).



47571

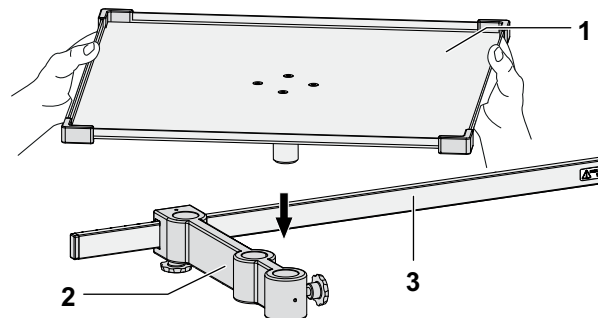
2. Place the rail holder (2) on the standard rail (3) and align it.
3. Tighten the locking screw (1) by hand.

If the rail holder has been attached to a standard rail, the following accessories can be attached:

- Small equipment pole (see "Small equipment poles", page 55)
- Shelf with central attachment (see "Shelf with central attachment", page 49)
- IV poles (see "Infusion poles", page 57)

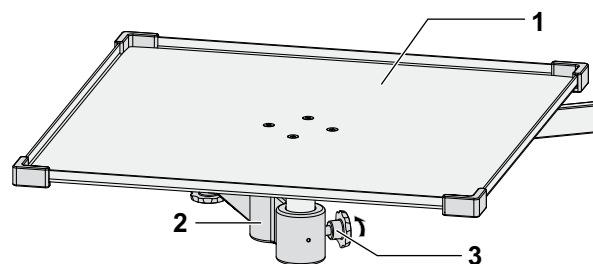
4.4.3.5 Shelf with central attachment

1. Take the shelf (1) in both hands.



47572

2. Push the central attachment on the shelf into the mount on the long rail holder (2).



47573

3. Tighten the locking screw (3) by hand.

4.5 Assembly by service personnel

The following sections describe the attachment of accessories that can be fitted by service personnel.

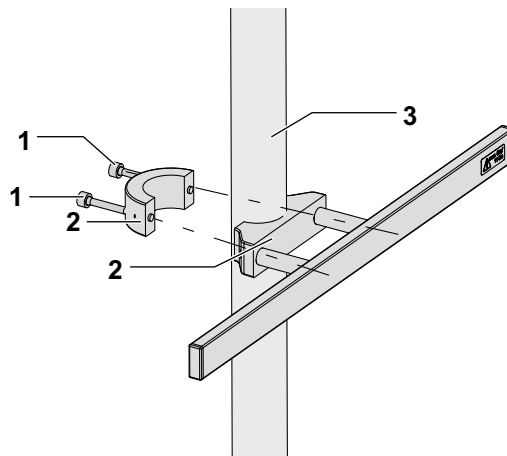
Before first use, all accessories must be checked for functional integrity and secure fitting. The connection between the supply unit and the accessory must be secure.

 Incorrect fitting may cause damage to the frame rail of the supply unit.

Observe the instructions for use for the accessories and the associated supplements.

4.5.1 Standard rail for equipment poles

1. Remove the M5x10 hexagon socket screws (1) from the adapter for the standard rail for equipment poles (2).

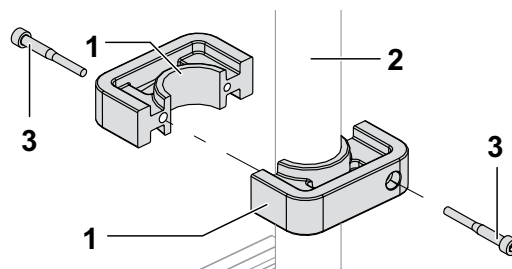


47693

2. Place both parts of the adapter (2) on the equipment pole (3) and align it at a right angle.
3. Tighten the M5x10 hexagon socket screws (1).
Tightening torque: 3.5 Nm

4.5.2 Compact rail

1. Place both parts of the compact rail (1) on the equipment pole (2) and align them.

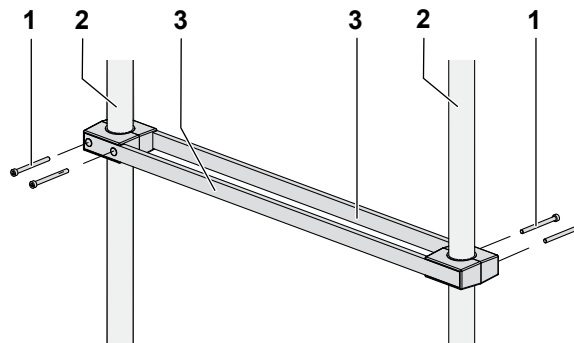


47694

2. Tighten the M6x50 hexagon socket screws (3).
Tightening torque: 6 Nm
3. Place the protection caps on the hexagon socket screws (3).

4.5.3 Double rail for equipment rack

1. Unfasten and remove the 4 M6x70 hexagon socket screws (1).



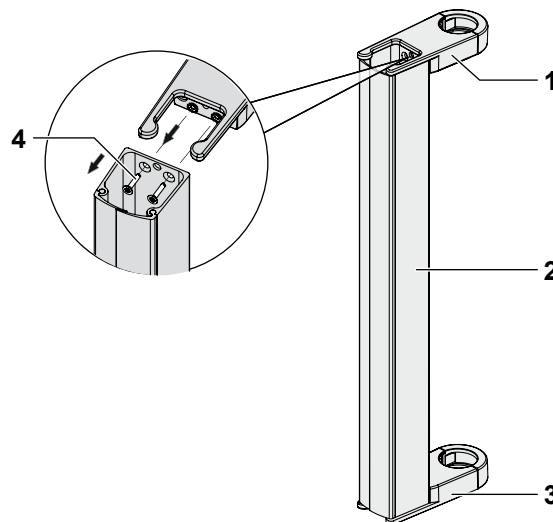
45838

2. Place the two parts of the double rail (3) in the desired position on the equipment pole (2) of the equipment rack and align them at a right angle.
3. Insert and tighten the 4 M6x70 hexagon socket screws (1).
Tightening torque: 12 Nm
4. Place the protection caps on the hexagon socket screws.

4.5.4 Cable management

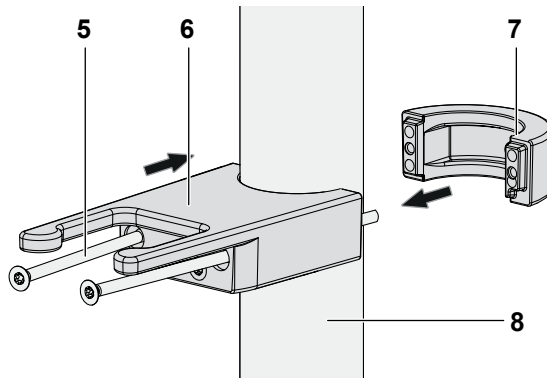
4.5.4.1 Cable management for equipment pole

1. Remove the upper adapter (1) and the lower adapter (3) from the cable duct (2).
To do this, unfasten and remove the 4 M4x16 countersunk screws (4).



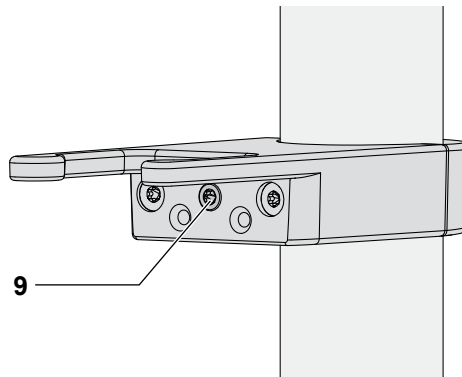
45917

2. Place the two parts (6 and 7) of the upper adapter (1) in the desired position on the equipment pole (8).



46497

3. Screw the upper adapter (1) to the equipment pole (8).
To do this, screw the 2 M4x65 countersunk screws (5) into the adapter and tighten them by hand.
4. Fasten the adapter in the desired position on the equipment pole (8).
To do this, tighten the screw (9) counterclockwise by hand.



46080

5. Determine the position for the lower adapter (3) on the equipment pole (8).
To do this, hold the cable duct (2) at the upper adapter (1) in the final position and place the lower adapter (7) at the resulting position on the equipment pole (8).
 6. Set the cable duct (2) aside again.
 7. Fasten the lower adapter (3) in the same way as for the upper adapter (1), see steps 2 and 3.
 8. Screw the cable duct (2) to both adapters.
 9. Screw the cable duct (2) to the adapters.
To do this, push the 4 M4x16 countersunk screws (4) into each adapter and tighten them by hand.
 10. Fasten the lower adapter (3) in its position on the equipment pole (8).
To do this, tighten the screw (9) counterclockwise by hand.
- ✓ The cable manager is fitted.

4.5.4.1.1 Fitting cables in the cable manager

⚠ WARNING

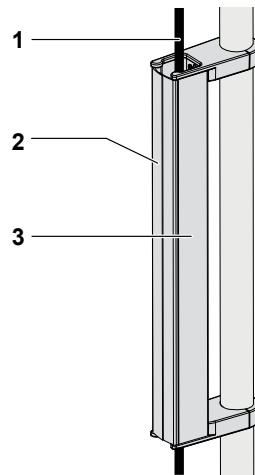
Risk of electric shock

The use of damaged cables may result in electric shock.

- ▶ Ensure that only undamaged cables are used.
- ▶ Also check cables for damage before fitting them in the cable manager.

Only insert as many cables in the cable manager as will fit completely in the manager.

1. Press the cable (1) through the rubber lips (2) into the cable manager (3).

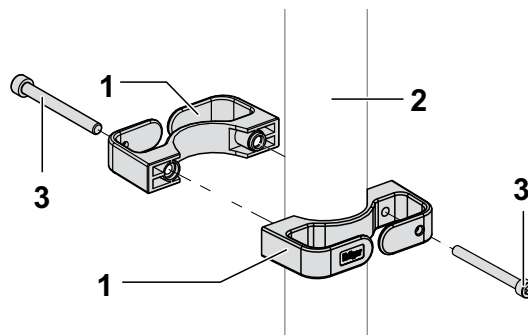


45540

- ✓ The cable is fitted in the cable manager.

4.5.4.2 Holder on equipment pole for cables and hoses

1. Place both parts of the holder (1) on the equipment pole (2) and align them.



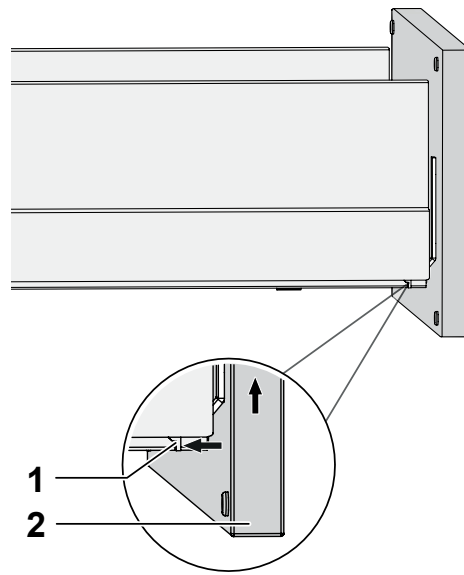
47695

2. Tighten the M4x16 hexagon socket screws (3).
Tightening torque: 1 Nm

4.5.5 Drawer light

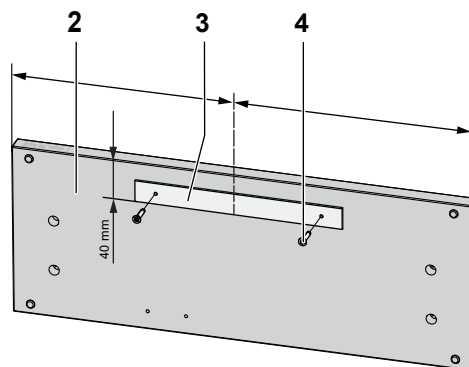
For further information on the drawer light, see the manufacturer's instructions for use.

1. Open the drawer.
2. Remove the front (2) of the drawer.
To do this, press the levers (1) at each side on the underside of the drawer in the direction of the arrow.



48523

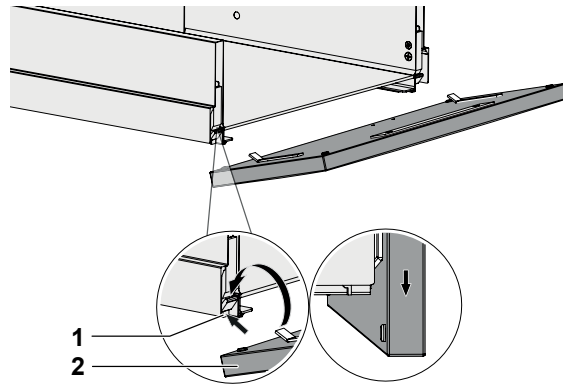
3. Remove the front (2) in the direction of the arrow.
4. Remove the protective film from the magnetic strip (3).



48522

5. Stick the magnetic strip (3) centrally on the inside on the rear of the drawer front (2), at a parallel distance of 40 mm (1.57 in) from the upper edge.
The rear of the drawer front (2) must be clean and free of grease for this.
6. Drill a 3 mm diameter hole at each of the 2 marks for the positions of the screws on the magnetic strip (3).
7. Using 2 raised countersunk Phillips-head wood screws (4), screw the magnetic strip (3) to the drawer by hand.
8. Fit the front (2) of the drawer.

To do this, press the levers (1) at each side on the underside of the drawer in the direction of the arrow.



48536

9. Hook the front (2) in and push it down in the direction of the arrow until it clicks into place.
 10. Place the drawer light on the magnetic strip (3).
 11. Close the drawer.
- ✓ The drawer light is fitted.

4.5.6 Small equipment poles

Depending on their fastening, small equipment poles have different loads (see "Technical data", page 91). Small equipment poles are attached to mounting systems or fastened to standard rails with the aid of short or long rail holders or mounting systems. To hold the small equipment pole at a certain height, a retaining ring must be fastened to the small equipment pole.

4.5.6.1 Retaining ring

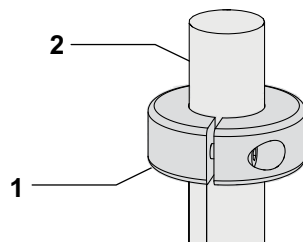
⚠ WARNING

Risk due to exceeding the maximum load

The retaining ring and small equipment pole are designed for a maximum load (see "Technical data", page 91). This load and the dead weight must be taken into account when calculating the maximum load.


- ▶ Always tighten the screws on the retaining ring alternately.
- ▶ The maximum load specifications must not be exceeded.

1. Unfasten the M5x15 hexagon socket screws on the retaining ring (1).

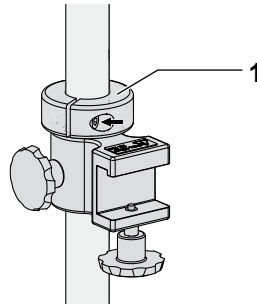


47678

- Slide the retaining ring (1) over the small equipment pole (2) to the desired height.

 Position the retaining ring for the small equipment pole so that the ring is lying flat on the rail holder or the infusion adapter of the mounting system.

- Tighten the M5x15 hexagon socket screws on the retaining ring (1).
Tightening torque: 1 Nm



47679

- Slide the small equipment pole from above into the rail holder or into the infusion adapter of the mounting system.
- Tighten the locking screw on the infusion adapter or on the rail holder by hand.

⚠ WARNING

The small equipment pole can slip if it is not secured

The small equipment pole can slip if the adjusting screw is not tightened.

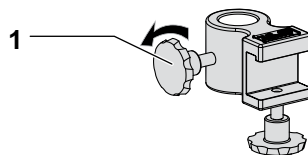
- ▶ Only loosen the adjusting screw and the retaining ring to change the position of the small equipment pole. Then tighten the adjusting screw and the retaining ring again immediately.

- To change the position of the small equipment pole, briefly unfasten the locking screw and retaining ring and tighten them again afterwards.

4.5.6.2

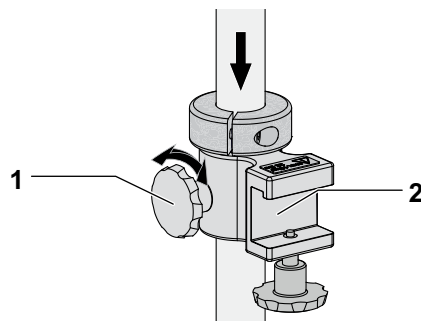
Rail holder, short

- Loosen the locking screw (1).



47684

- Slide the rail holder (2) over the small equipment pole from above and align it.



47686

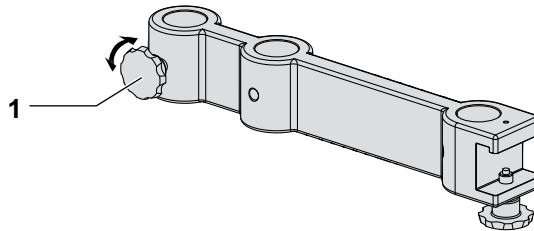
3. Tighten the locking screw (1) by hand.
4. Depending on the other fastenings and the maximum load, it may be necessary to hold the small equipment pole with a retaining ring (3). For further information see: "Technical data", page 91.

If the rail holder has been attached to a small equipment pole, the following accessories can be attached:

- Standard rail (see "Standard rails", page 47)

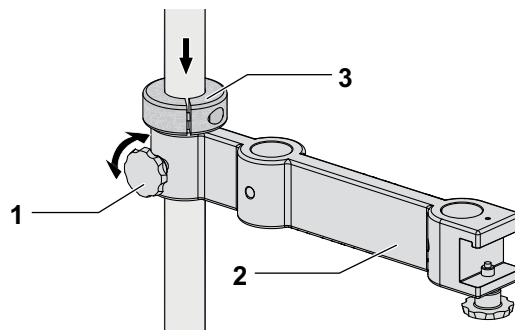
4.5.6.3 Rail holder, long

1. Loosen the locking screw (1).



47687

2. Set the rail holder (2) over the small equipment pole from above and align it.



47688

3. Tighten the locking screw (1) by hand.
4. Depending on the other fastenings and the maximum load, it may be necessary to hold the small equipment pole with a retaining ring (3). For further information see: "Technical data", page 91.

If the rail holder has been attached to a small equipment pole, the following accessories can be attached:

- Standard rail (see "Standard rails", page 47)

4.5.7 Infusion poles

Depending on their fastening, infusion poles have different loads (see "Technical data", page 91). Infusion poles are fitted with a bottle cross or a bottle bar, to which bottles and bags for infusion or transfusion can be attached. Infusion poles are attached to mounting systems or fastened to standard rails with the aid of short or long rail holders or mounting systems. To hold the infusion pole at a certain height, a retaining ring must be fastened to the infusion adapter.

4.5.7.1 Retaining ring

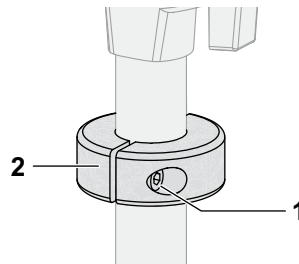
⚠ WARNING

Risk due to exceeding the maximum load

The retaining ring and the IV pole are designed for a maximum load (see "Technical data", page 91). This load and the dead weight must be taken into account when calculating the maximum load.

- ▶ Always tighten the screws on the retaining ring alternately.
- ▶ The maximum load specifications must not be exceeded.

1. Unfasten the M5x15 hexagon socket screws (1) on the retaining ring (2).

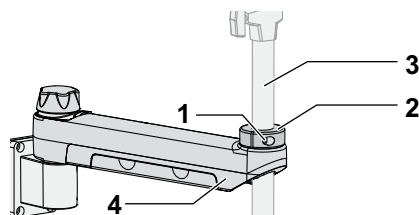


47689

2. Slide the retaining ring over the infusion pole from below until the desired height is reached.

ⓘ Position the retaining ring for the infusion pole so that the ring is lying flat on the infusion adapter of the mounting system or on the rail holder.

3. Tighten the M5x15 hexagon socket screws (1) on the retaining ring (2).
Tightening torque: 1 Nm



47690

4. Slide the infusion pole (3) from above into the rail holder or into the infusion adapter of the mounting system (4).
5. Tighten the wing screw on the infusion adapter or the locking screw on the rail holder by hand.

⚠ WARNING

The IV pole can slip if it is not secured

The IV pole can slip if the adjusting screw is not tightened.

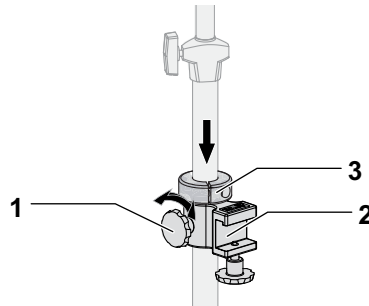
- ▶ Only loosen the adjusting screw and the retaining ring to change the position of the IV pole. Then tighten the adjusting screw and the retaining ring again immediately.

6. To change the position of the infusion pole, briefly unfasten the locking screw and retaining ring and tighten them again afterwards.

4.5.7.2 Rail holder, short

Depending on the other fastenings and the maximum load, it may be necessary to hold the infusion pole with a retaining ring. For further information see: "Technical data", page 91.

1. Before fitting the rail holder, loosely fit the retaining ring to the infusion pole.
2. Loosen the locking screw (1) on the rail holder.



47691

3. Slide the rail holder (2) over the infusion pole from below and align it.
4. Tighten the locking screw (1) by hand.
5. Tighten the M5x15 hexagon socket screws on the retaining ring (3).
Tightening torque: 1 Nm

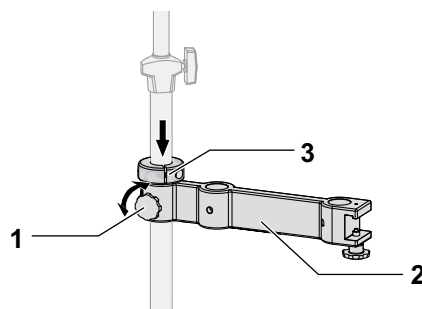
If the rail holder has been attached to an IV pole, the following accessories can be attached:

- Standard rail (see "Standard rails", page 47)

4.5.7.3 Rail holder, long

Depending on the other fastenings and the maximum load, it may be necessary to hold the infusion pole with a retaining ring. For further information see: "Technical data", page 91.

1. Before fitting the rail holder, loosely fit the retaining ring to the infusion pole.
2. Loosen the locking screw (1) on the rail holder.



47692

3. Slide the rail holder (2) over the infusion pole from below and align it.
4. Tighten the locking screw (1) by hand.
5. Tighten the M5x15 hexagon socket screws on the retaining ring (3).
Tightening torque: 1 Nm

If the rail holder has been attached to an IV pole, the following accessories can be attached:

- Standard rail (see "Standard rails", page 47)

5 Getting started

Ponta may only be put into service by DrägerService.

Retrospective modifications may only be carried out by DrägerService. An acceptance procedure must be repeated afterwards.

6 Operation

6.1 Moving the shuttle

⚠ WARNING

Risk of personal injury and property damage

When the supply unit is being positioned, devices may fall from the shelf and cables and hoses may be damaged or pinched. The supply to the patient will be interrupted as a result.

- ▶ When positioning the supply unit, check that the supply lines can move freely and make sure that no objects will be damaged. If necessary, disconnect the supply line, reposition it, and reconnect it.

⚠ WARNING

Risk of personal injury and property damage

When positioning the shuttle and attached devices, take care that no persons are injured or objects damaged.

- ▶ Take care when moving the shuttle.

⚠ WARNING

Risk of personal injury and property damage

Due to their inertia, fully equipped (=heavily loaded) ceiling supply units require high braking forces. Personal injury and property damage may occur as a consequence.

- ▶ Braking force must be applied by the user, as the ceiling supply unit must not be slowed down with the brakes.
- ▶ Only move the ceiling supply unit as fast as it can be slowed down at any time by the user.

⚠ WARNING

Risk of damaging the electro-pneumatic brake or the electromagnetic brake

If a supply unit equipped with an electro-pneumatic brake or an electromagnetic brake is rotated or moved while the brake is engaged, the brake may be damaged.

- ▶ Do not move the supply unit without first releasing the brake.
At the end of a movement, bring the system to a complete standstill by hand before applying the brakes again.
There are various ways of deactivating and reactivating the brake, as described in this chapter.
Only brake the movements by hand.
When positioning the supply unit, take care that no persons are injured or objects damaged.

⚠ CAUTION

Risk of personal injury and property damage

Collisions with persons or objects may occur when positioning the supply unit. Parts may fall off as a result.

- ▶ To avoid collisions, check the immediate vicinity for obstructions before positioning the supply unit.
 - ▶ When positioning the supply unit, take care that fitted accessories projecting from the unit do not injure anyone or damage other devices.
 - ▶ Move the supply unit carefully and, when doing so, pay attention to parts which are lying loose, e.g., on a shelf, and may easily fall off.
-

NOTICE

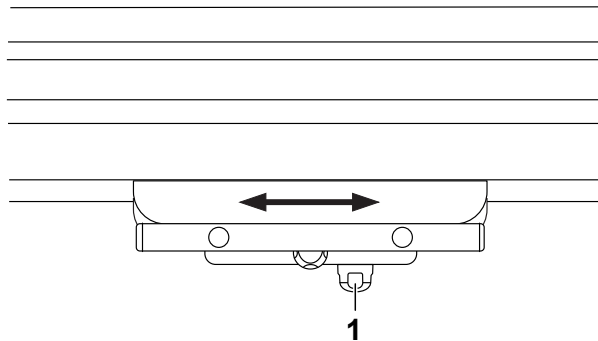
Property damage caused by overheating of the brake

Incorrect operation of the electromagnetic brake can result in overheating of the brake.

- ▶ The electromagnetic brake may be released for a maximum of 40 seconds at a time. After that, the electromagnetic brake must not be released for at least 160 seconds.

6.1.1

Ponta C shuttle



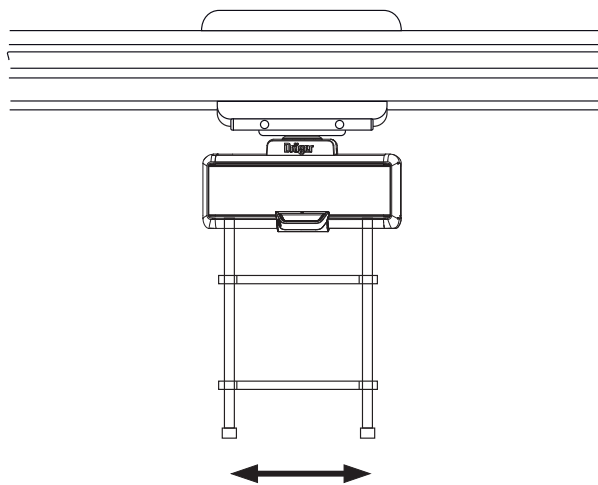
49910

1. Unfasten the locking screw (1) for the mechanical brake counterclockwise by one turn.
2. Bring the shuttle into the desired position.
3. To fix the shuttle in position, turn the locking screw (1) for the mechanical brake clockwise by one turn.

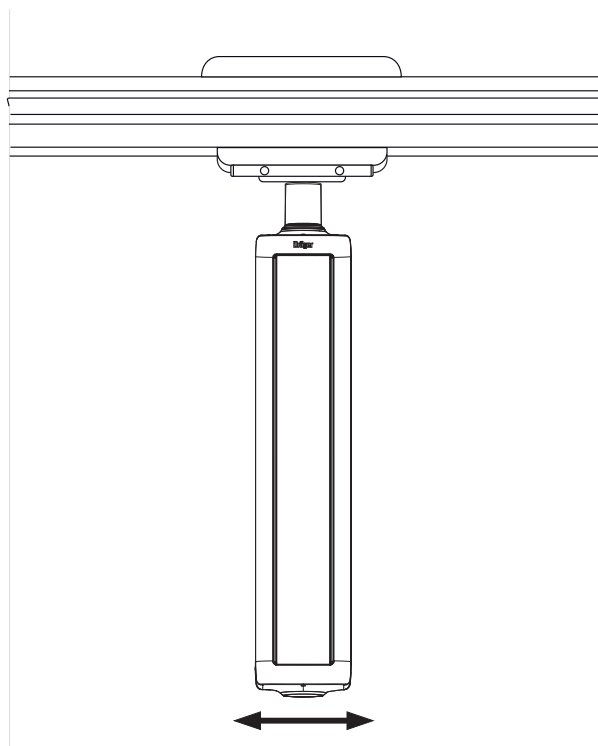
6.1.2

Ponta E plus shuttle

i Depending on the length of the supply beam, the shuttles can be moved by up to 550 mm (21.65 in) in either direction (1100 mm (43.3 in) in total).

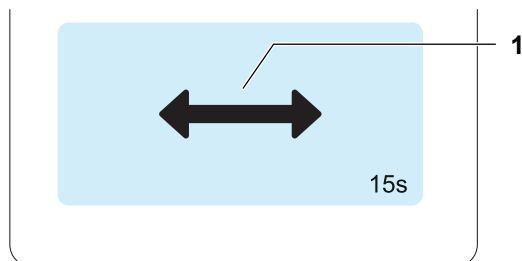


49972





49973

A section from the Ponta E plus control panel is shown in the following illustration.

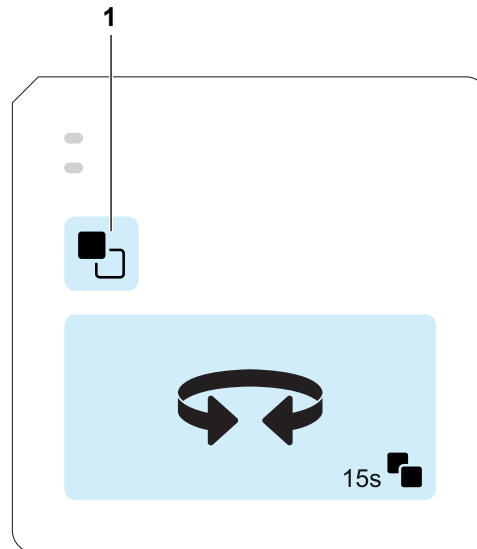


49981

1. Press the key (1) on the control panel and then move the shuttle.
 -  To apply the brake again, press the key (1) on the control panel once more.
 2. Bring the shuttle into the desired position.
 -  The shuttle is automatically braked again after 15 seconds. The shuttle must therefore be brought back to a standstill within these 15 seconds.
- ✓ The shuttle is positioned.

6.1.3 Ponta S plus shuttle

i Depending on the length of the supply beam, the shuttles can be moved by up to 550 mm (21.65 in) in either direction (1100 mm (43.3 in) in total).



49P82

1. Press the key (1) on the control panel and then move the shuttle.

i To apply the brake again, press the key (1) on the control panel once more.

2. Bring the shuttle into the desired position.

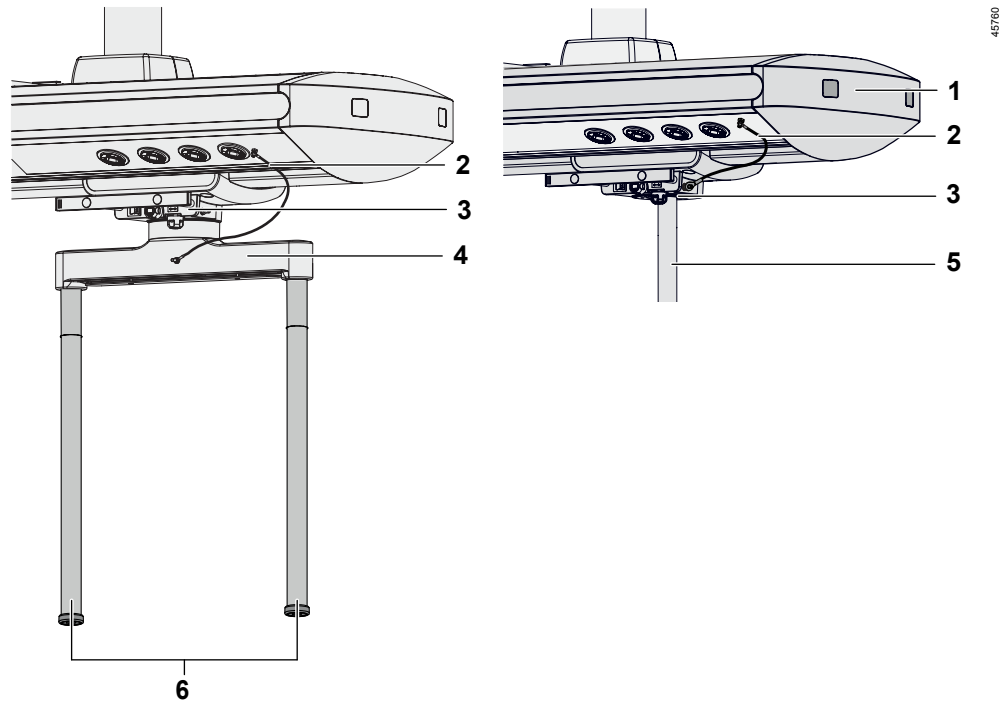
i The shuttle is automatically braked again after 15 seconds. The shuttle must therefore be brought back to a standstill within these 15 seconds.

✓ The shuttle is positioned.

6.1.4 Potential equalization connection for the shuttle

The potential equalization connection must be established to ensure that all metallic conducting surfaces are at the same electrical potential.

The potential equalization cable must meet the requirements of the IEC 60601-1 standard.



- | | |
|---|------------------------------|
| 1 | Supply beam |
| 2 | Potential equalization cable |
| 3 | Shuttle |
| 4 | Crossbar |
| 5 | Equipment pole |
| 6 | Equipment rack |

Proceed as follows if the shuttle (3) has been shifted beyond the reach of the potential equalization cable:

1. Disconnect the potential equalization cable (2) from the potential equalization socket on the supply beam (1).
 2. Shift the shuttle (3) to the desired position.
 3. Connect the potential equalization cable (2) to the potential equalization socket on the supply beam (1).
- ✓ The potential equalization connection is established.

6.2 Rotating components on the shuttle

⚠ WARNING

Risk of personal injury and property damage

When the supply unit is being positioned, devices may fall from the shelf and cables and hoses may be damaged or pinched. The supply to the patient will be interrupted as a result.

- ▶ When positioning the supply unit, check that the supply lines can move freely and make sure that no objects will be damaged. If necessary, disconnect the supply line, reposition it, and reconnect it.

⚠ WARNING

Risk of damaging the electro-pneumatic brake or the electromagnetic brake

If a supply unit equipped with an electro-pneumatic brake or an electromagnetic brake is rotated or moved while the brake is engaged, the brake may be damaged.

- ▶ Do not move the supply unit without first releasing the brake.
At the end of a movement, bring the system to a complete standstill by hand before applying the brakes again.
There are various ways of deactivating and reactivating the brake, as described in this chapter.
Only brake the movements by hand.
When positioning the supply unit, take care that no persons are injured or objects damaged.

⚠ CAUTION

Risk of personal injury and property damage

Collisions with persons or objects may occur when positioning the supply unit. Parts may fall off as a result.

- ▶ To avoid collisions, check the immediate vicinity for obstructions before positioning the supply unit.
- ▶ When positioning the supply unit, take care that fitted accessories projecting from the unit do not injure anyone or damage other devices.
- ▶ Move the supply unit carefully and, when doing so, pay attention to parts which are lying loose, e.g., on a shelf, and may easily fall off.

NOTICE

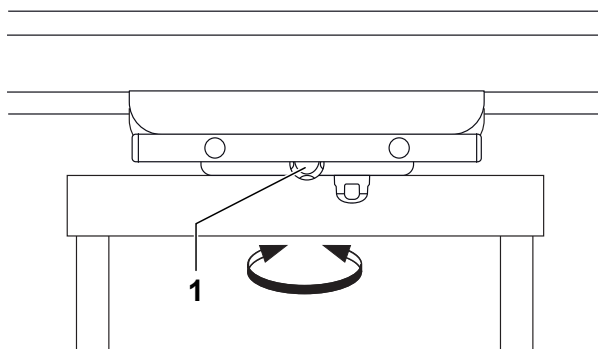
Property damage caused by overheating of the brake

Incorrect operation of the electromagnetic brake can result in overheating of the brake.

- ▶ The electromagnetic brake may be released for a maximum of 40 seconds at a time. After that, the electromagnetic brake must not be released for at least 160 seconds.

i The equipment racks are protected from inadvertent twisting.

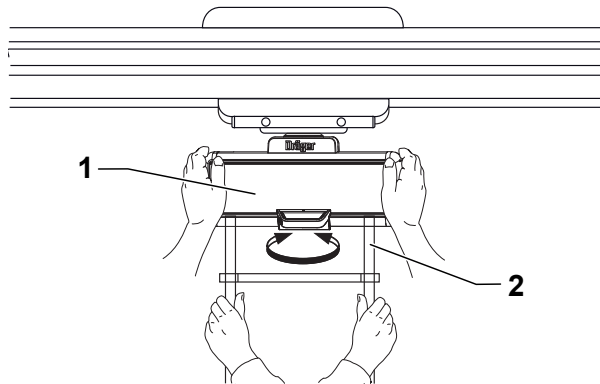
6.2.1 Ponta C with equipment rack



49871

1. Unfasten the locking screw (1) for the mechanical brake counterclockwise by one turn.
 2. Rotate the equipment rack on the shuttle into the desired position.
 3. To fix the equipment rack in position, turn the locking screw (1) for the mechanical brake clockwise by one turn.
- ✓ The equipment rack is positioned.

6.2.2 Ponta E plus with media head



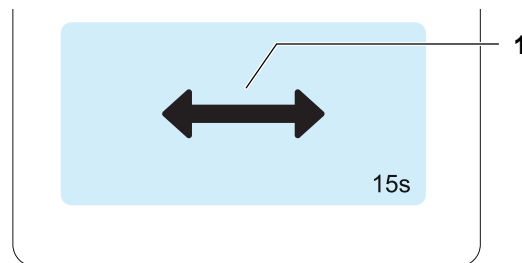
49877

Pivot bearing with friction brake

- Grasp the media head (1) or the equipment rack (2) and rotate it into the desired position.
- ⇒ The media head or the equipment rack is positioned.

Pivot bearing with electropneumatic or electromagnetic brake (optional)

A section from the Ponta E plus control panel is shown in the following illustration.



49981

1. Press the key (1) on the control panel and then rotate the media head.

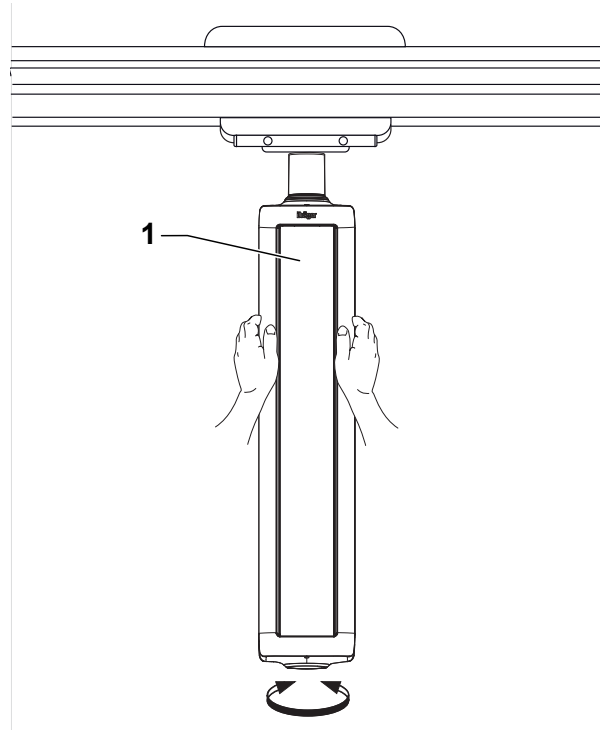
i To apply the brake again, press the key (1) on the control panel once more.

2. Bring the media head into the desired position.

i The media head is automatically braked again after 15 seconds. The media head must therefore be brought back to a standstill within these 15 seconds.

- ✓ The media head is positioned.

6.2.3 Ponta E plus with media column



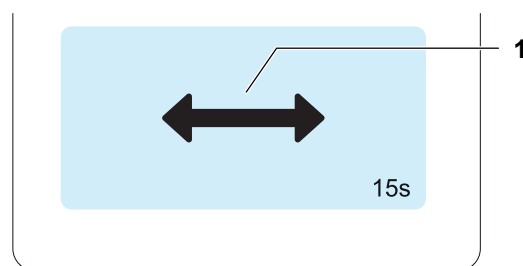
49978

Pivot bearing with friction brake

- Grasp the media column (1) with both hands by the frame rails or the handles and rotate it into the desired position.
- ⇒ The media column is positioned.


Pivot bearing with electropneumatic or electromagnetic brake (optional)

A section from the Ponta E plus control panel is shown in the following illustration.




49981

1. Press the key (1) on the control panel and then rotate the media column.

 To apply the brake again, press the key (1) on the control panel once more.

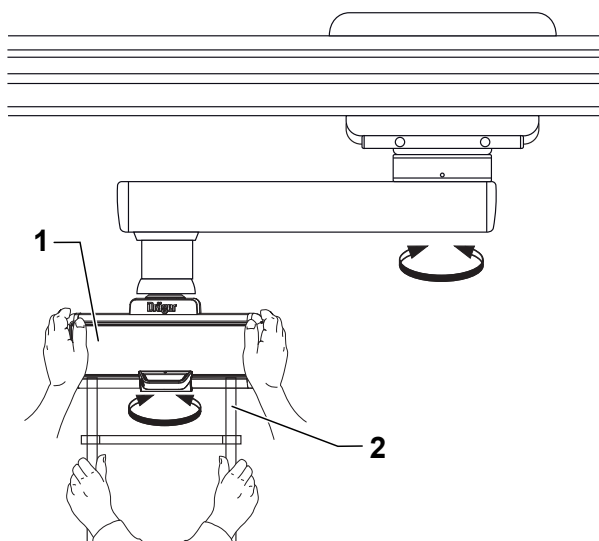
2. Bring the media column into the desired position.

 The media column is automatically braked again after 15 seconds. The media column must therefore be brought back to a standstill within these 15 seconds.

- ✓ The media column is positioned.

6.2.4 Ponta S plus with media head

48879



Pivot bearing with friction brake

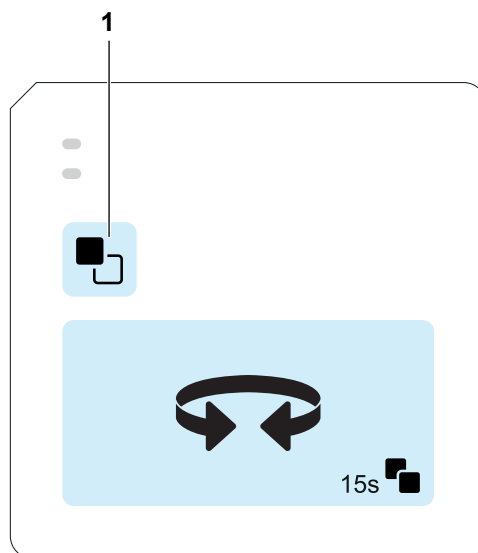
Rotating the media head

- Grasp the media head (1) or the equipment rack (2) and rotate it into the desired position.
- ⇒ The media head or the equipment rack is positioned.


Pivot bearing with electropneumatic or electromagnetic brake (optional)

Rotating the media head


48882



1. Press the key (1) on the control panel and then rotate the media head.

 To apply the brake again, press the key (1) on the control panel once more.

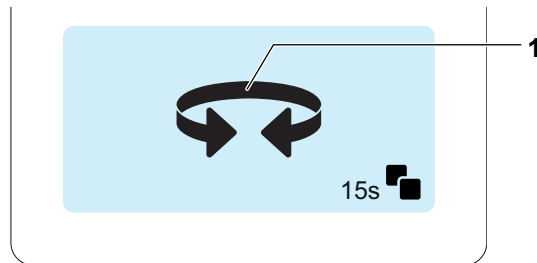
2. Bring the media head into the desired position.

 The media head is automatically braked again after 15 seconds.
The media head must therefore be brought back to a standstill within these 15 seconds.


- ✓ The media head is positioned.

Rotating the media head and the support arm


A section from the Ponta S plus control panel is shown in the following illustration.



1. Press the key (1) on the control panel and then rotate the media head and the support arm together.

 To apply the brake again, press the key (1) on the control panel once more.

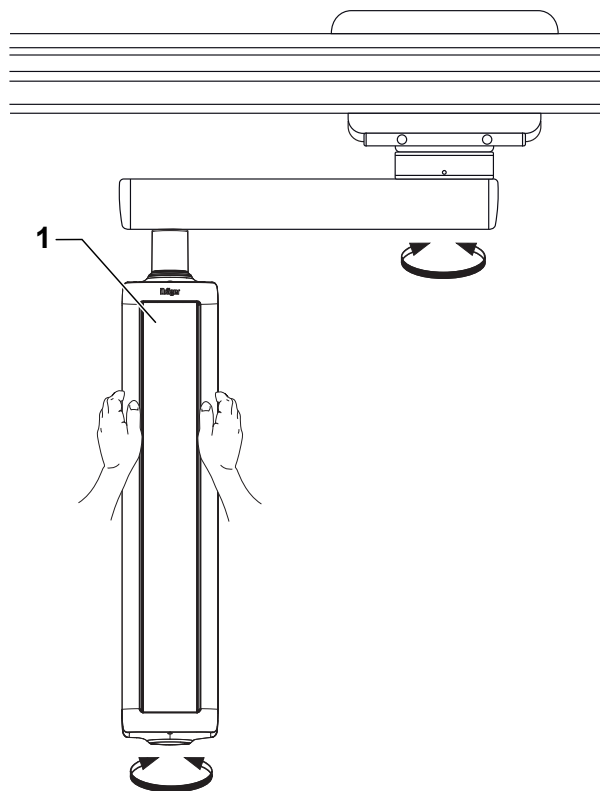
2. Bring the media head and the support arm into the desired position.

 The media column and the support arm are automatically braked again after 15 seconds.
The media head and the support arm must therefore be brought back to a standstill within these 15 seconds.

- ✓ The media head and the support arm are positioned.

6.2.5 Ponta S plus with media column

48976



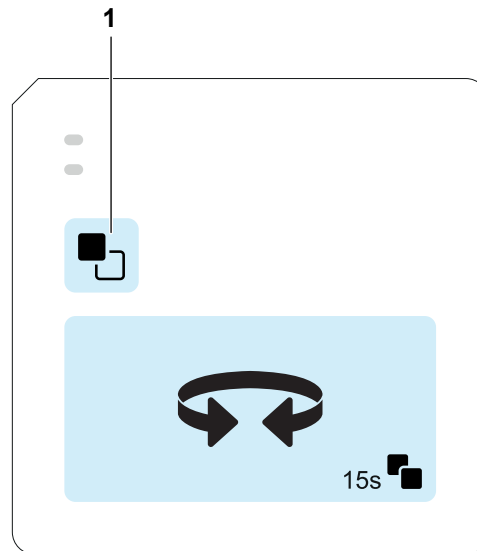
Pivot bearing with friction brake

Rotating the media column

- Grasp the media column (1) with both hands by the frame rails or the handles and rotate it into the desired position.
- ⇒ The media column is positioned.

Pivot bearing with electropneumatic or electromagnetic brake (optional)

Rotating the media column




459882

1. Press the key (1) on the control panel and then rotate the media column.

 To apply the brake again, press the key (1) on the control panel once more.

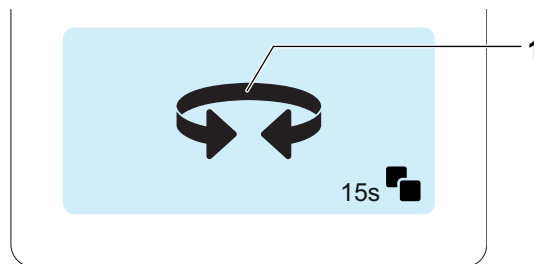
2. Bring the media column into the desired position.

 The media column is automatically braked again after 15 seconds. The media column must therefore be brought to a standstill within these 15 seconds.

- ✓ The media column is positioned.


Rotating the media column and the support arm

A section from the Ponta S plus control panel is shown in the following illustration.



45323

1. Press the key (1) on the control panel and then rotate the media column and the support arm together.

 To apply the brake again, press the key (1) on the control panel once more.

2. Bring the media column and the support arm into the desired position.

i The media column and the support arm are automatically braked again after 15 seconds.
The media column and the support arm must therefore be brought back to a standstill within these 15 seconds.

- ✓ The media column and the support arm are positioned.

6.3 Lighting (optional)

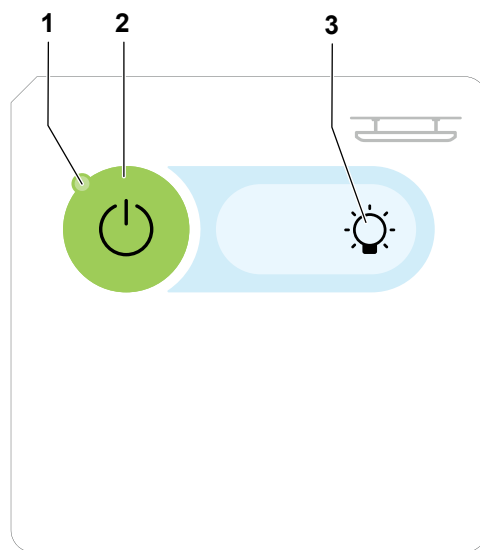
6.3.1 Control panel for the lighting

6.3.1.1 Switching on and off

Control panel without dimmer function

Procedure:

- Press the key (2) on the control panel.



⇒ The lighting is on. The LED (1) lights up.

i If the key (2) is pressed again, the lighting goes out.

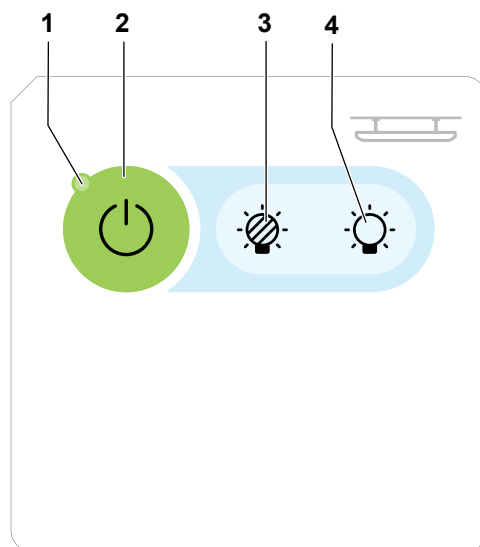
i Key (3) can also be used for switching on the lighting.

- When the key (3) is pressed, the light is switched on. The lighting is on. The LED (1) lights up.
-

Control panel with dimmer function

Procedure:

- Press the key (2) on the control panel.



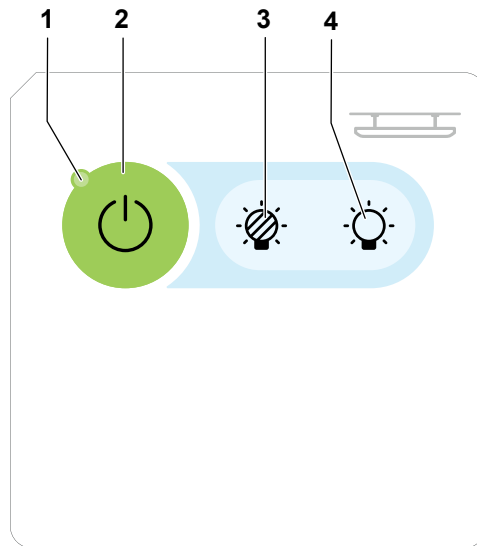
⇒ The lighting is on. The LED (1) lights up.

i If the key (2) is pressed again, the lighting goes out.

i Key (3) or key (4) can also be used for switching on the lighting.

- When the key (3) is pressed once, the light is switched on at its lowest illuminance.
- When the key (4) is pressed once, the light is switched on at its previous illuminance.

6.3.1.2 Dimming



49989

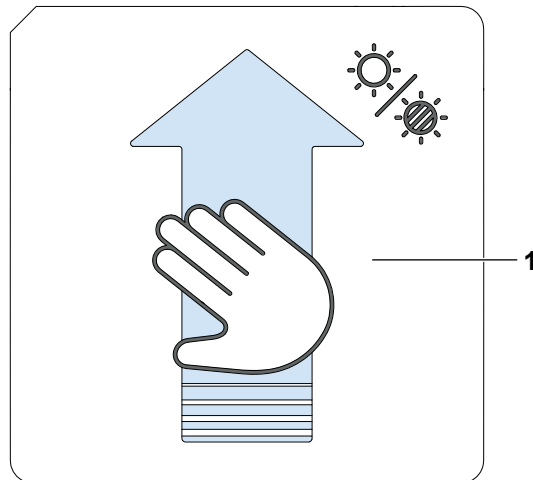
Procedure to reduce the illuminance:

- Keep the key (3) on the control panel pressed, or press it several times.
⇒ The illuminance is reduced.

Procedure to increase the illuminance:

- Keep the key (4) on the control panel pressed, or press it several times.
⇒ The illuminance is increased.

6.3.2 Control panel for gesture control



44/889

Switching the lighting on

Procedure:

- Move an outstretched hand over the control panel (1) from bottom to top at a distance of approx. 5 cm.
⇒ The lighting is on.

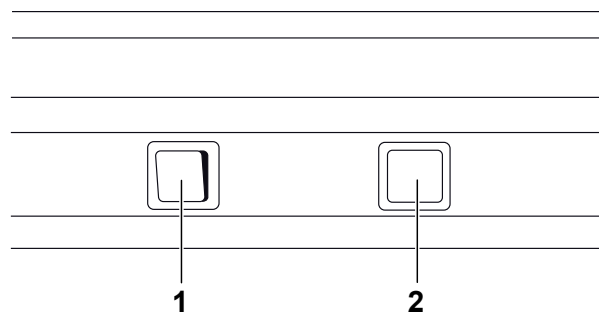
Switching the lighting off

Procedure:

- Move an outstretched hand over the control panel (1) from bottom to top at a distance of approx. 5 cm.
⇒ The lighting is off.

6.3.3 Switches

The following illustration shows examples of the switch types in a supply beam.




50044

6.3.3.1 Switching on and off

Procedure:

- Press the switch (1 or 2).
⇒ The lighting is on.

 If the relevant switch (1 or 2) is pressed again, the lighting goes out.

6.3.3.2 Dimming

The ceiling light and the reading light can be dimmed.

Switch with dimmer function

Procedure:

- Press the switch (2) briefly.
⇒ The lighting is on.

 If the switch (2) is pressed briefly again, the lighting goes out.

- If the switch (2) is pressed for a longer time, the illuminance is increased or reduced.

7 Troubleshooting

7.1 Fault – Cause – Remedy

⚠ WARNING

Risk of unwanted movement as a consequence of damaged brakes

In an emergency, the system can also be moved without releasing the brakes. Consequently, the brakes may become damaged.

- ▶ Always use the brakes in accordance with the instructions in chapter Operation. Only deviate from this in the event of an emergency.
- ▶ After such an emergency, have the braking system checked by DrägerService and repaired if necessary.

⚠ WARNING

Risk of fire

If the gas supply for the supply unit is insufficient and a hissing noise can be heard, compressed gas may be escaping inside the supply unit.

- ▶ Do not remove **any** plugs from the power sockets on the supply unit.
- ▶ Interrupt the power supply to the supply unit by switching off the power at the circuit breaker.
- ▶ Then interrupt the gas supply, taking account of any connected devices.
- ▶ Have the gas supply checked and repaired by hospital technicians or DrägerService.

Fault	Cause	Remedy
Shuttle makes noises when being moved.	Shuttle is incorrectly set.	Contact DrägerService.
Despite operation of the key, Ponta E plus shuttle or Ponta S plus shuttle cannot be moved or only with great difficulty.	Incorrect operation – brake is not released.	Release the brake. For further information see: "Moving the shuttle", page 61.
	Pneumatic valve or key is inoperative (no hissing noise when actuated).	Check the compressed air system. If the compressed air system is OK, contact DrägerService.
	No power to the system.	Check the power supply to the system. Contact DrägerService.
Bearing with friction brake turns too easily/stiffly.	Friction brake is set too lightly/firmly.	Contact DrägerService.
Continuous hissing noise	Connections in the pneumatic system are faulty.	Contact DrägerService.

Fault	Cause	Remedy
Device LED does not light.	No power to PCB / system, cable connection is interrupted.	Have the power supply and the fuses checked by hospital technicians and contact DrägerService.
	LED is faulty.	Have the control panel replaced by DrägerService.
No LED lights when control panel is operated.	Power supply unit is faulty. No power to PCB / system, cable connection is interrupted.	Have the power supply, the power supply unit, and the fuses checked by hospital technicians and contact DrägerService.
	CAN bus cable is faulty or cable connection is interrupted.	Contact DrägerService.

8 Reprocessing

8.1 Information on reprocessing

Other medical devices or accessories that are used with the supply unit may be subject to other reprocessing procedures.

Observe the associated instructions for use.

If a drawer is fitted with a drawer light, the light must be removed before reprocessing.

8.2 Safety information

⚠ WARNING

Risk of personal injury and/or property damage

Liquid penetrating into the device or terminal units may impair the function of the device or damage it and put the patient at risk.

- ▶ Switch off the lighting on the ceiling supply unit.
Clean the parts using only a slightly moistened cloth and disinfect the surfaces.
- ▶ Do not allow any liquids to penetrate the device.

⚠ WARNING

Increased risk of fire

Some gases (e.g., oxygen, nitrous oxide) are self-igniting when under pressure and in contact with oil or grease. Persons may be endangered.

- ▶ Connections must not come into contact with oil, grease, or combustible fluids (e.g., combustible cleaning agents).

⚠ CAUTION

Risk of property damage

The device consists partly of materials which are not resistant to certain components of surface disinfectants.

- ▶ Observe the information in this chapter.

8.2.1 Information on reprocessing

Follow the national infection prevention policies and reprocessing regulations.

Follow the infection prevention policies and reprocessing regulations of the health-care facility (e.g., concerning the reprocessing cycles).

8.3 Classifications for reprocessing

8.3.1 Classification of medical devices

Medical devices and their components are classified according to the way they are used and the resulting risk.

Classification	Explanation
Non-critical	Components that come only into contact with skin that is intact
Semi-critical	Components that carry breathing gas or come into contact with mucous membranes or pathologically altered skin
Critical	Components that penetrate skin or mucous membranes or come into contact with blood

8.3.2 Classification of device-specific components

Observe the instructions for use for the components.

The following classification is a recommendation from Dräger.

Non-critical

- The product and all its components, e.g., supply beam, shuttle, equipment pole, equipment rack, shelf
- Accessories, e.g., cable management for equipment pole

8.4 Before reprocessing

Observe before disassembly

1. Turn off all connected devices.
2. Remove the devices from the ceiling supply unit if necessary.

8.5 Validated reprocessing procedures

8.5.1 Overview of the reprocessing procedures of the components

Components	Surface disinfection with cleaning	Description of the procedure
Surfaces	Yes	(see "Surface disinfection with cleaning", page 82)

8.5.2 Surface disinfection with cleaning

Components:

- Device surfaces on the supply unit
- Surfaces of accessories such as cable managers for equipment poles:

Surface disinfectant	Manufacturer	Concentration	Contact time
Dismozon plus	Bode Chemie	1.6 %	15 min
Oxycide	Ecolab USA	2.3 %	5 min

Prerequisites:

- The surface disinfectant has been prepared in accordance with the manufacturer's instructions.
- The manufacturer's instructions, e.g., regarding shelf life or application conditions, are observed.
- An uncontaminated, lint-free cloth soaked in surface disinfectant is used for the cleaning surface disinfection.

Cleaning

1. Wipe off obvious soiling with a disposable cloth soaked in surface disinfectant. Dispose of the cloth.
2. Wipe all surfaces. After that, there must no longer be any soiling visible.

Surface disinfection

3. Wipe cleaned surfaces again to visibly wet all surfaces to be disinfected with surface disinfectant.
4. Wait for the surface disinfectant contact time.
5. At the end of the contact time, moisten a new, uncontaminated and lint-free cloth with water (at least drinking water quality).
6. Wipe all surfaces until no remains of the surface disinfectant, such as foam residues or streaks, are visible.
7. Wait until the surfaces are dry.
8. Check the surfaces for visible damage and, if necessary, replace the product.

8.5.3**Storage and transport**

After reprocessing, there are no special requirements for storage and transport of the product. However, the following must be observed:

- Store dry and free of dust
- Avoid recontamination and damage during transport

All further information on storage and transport included in the accompanying documents must be observed.

8.6**Other agents and reprocessing procedures****8.6.1****Disinfectants**

Use nationally approved disinfectants suitable for the respective reprocessing procedure and field of application.

Surface disinfectants

The manufacturers of the surface disinfectants have verified at least the following spectra of activity:

- Bactericidal
- Yeastcidal
- Virucidal or virucidal against enveloped viruses

Follow the manufacturer's instructions for surface disinfectants.

The following surface disinfectants were compatible with the material at the time of testing:

Class of active ingredient	Surface disinfectant	Manufacturer	Listing
Chlorine-releasing agents	Clorox Professional Disinfecting Bleach Cleaner	Clorox	EPA ¹⁾
	Dispatch Hospital Cleaner Disinfectant Towels with Bleach		
	Actichlor plus	Ecolab	–
	Chlor-Clean Tablets	helix Solution	ARTG ²⁾
Oxygen-releasing agents	Descogen Liquid	Antiseptica	CE
	Descogen Liquid r.f.u.		
	Oxygenon Liquid r.f.u.		
	Dismozon plus	BODE Chemie	CE
	Oxycide	Ecolab USA	EPA
	Perform	Schülke & Mayr	CE
	SteriMax Wipes	Aseptix	CE
	Incidin OxyWipes	Ecolab USA	CE
	Rubysta	Kyorin (Japan)	–
	Rely+On Virkon	DuPont	EPA
Quaternary ammonium compounds	acryl-des ³⁾	Schülke & Mayr	CE
	Mikrozid alcohol free liquid ³⁾		
	Mikrozid alcohol free wipes ³⁾		
	Mikrozid sensitive liquid ³⁾		
	Mikrozid sensitive wipes ³⁾		
	Cleanisept Wipes Maxi	Dr. Schumacher	CE
	Surfa'Safe Premium	ANIOS Laboratories	CE
	Wip'Anios Excel		
Tuffie 5	Vernacare	ARTG	

1) United States Environmental Protection Agency

2) Australian Register of Therapeutic Goods

3) Virucidal against enveloped viruses

Dräger states that oxygen-releasing agents and chlorine-releasing agents may cause color change in some materials. Color change does not indicate that the product is not functioning correctly.

Other surface disinfectants are used at one's own risk.

8.7 After reprocessing

8.7.1 Assembling and fitting device-specific components

Prerequisites:

- All components are reprocessed and dry.

Procedure

- If necessary, refer to the instructions for use for the ceiling supply unit and its accessories (see "Assembly and preparation", page 42).

9 Service

Dräger recommends DrägerService for service activities.

9.1 Definition of service terminology

Concept	Definition
Service	All measures (inspection, maintenance, repair) intended to maintain or restore the functional integrity of a product
Inspection	Measures intended to determine and assess the current state of a product
Maintenance	Regular specified measures intended to maintain the functional integrity of a product
Repair	Measures intended to restore the functional integrity of a product after a failure

9.2 Inspection

The definition for the personnel responsible can be found in chapter "User group requirements".

Component	Interval	Measure	Personnel responsible
Supply unit	Before each use	Visual inspection for deformation	Users
Electro-pneumatic brake	Before each use	Functional check	Users
Terminal units	Before each use	Visual inspection	Users

Component	Interval	Measure	Personnel responsible
Supply unit	Initially 2 years after commissioning, then every 12 months	Check of electrical safety in accordance with the IEC 62353 standard	Service personnel
Supply unit	Initially 2 years after commissioning, then every 12 months	<ul style="list-style-type: none"> – Visual inspection for mechanical damage caused by use – Visual inspection for deformation of accessories – Check for damage to the pivot bearings (movement noises) 	Service personnel

Component	Interval	Measure	Personnel responsible
Power sockets	Initially 2 years after commissioning, then every 12 months	Visual inspection	Service personnel
Terminal units	Initially 5 years after commissioning, then every 12 months	Visual inspection	Service personnel
Lighting	Initially 2 years after commissioning, then every 12 months	Functional check	Service personnel
Warning labels and information labels	Initially 2 years after commissioning, then every 12 months	Check for completeness and integrity	Service personnel
Compressed gas hoses	Initially 5 years after commissioning, then every 12 months	Visual inspection and tightness check	Specialized service personnel
Sealing covers on terminal units	Initially 5 years after commissioning, then every 12 months	Visual inspection	Specialized service personnel

9.3

Maintenance

WARNING

Risk of personal injury and property damage

If the specified maintenance interval for the supply unit is not observed, personal injury may occur and the safety of the supply unit will be compromised.

The operating organization is responsible for the consequences of non-compliance with the requirements for maintenance.

- ▶ The specified maintenance interval for the supply unit must be observed.
- ▶ Maintenance may only be carried out by specialized service personnel.

WARNING

Risk of fire

If the specified maintenance interval for compressed gas hoses is not observed, personal injury may occur and compliance with the fire safety plan for the device will be compromised.

The operating organization is responsible for the consequences of failure to comply with the specifications regarding maintenance.

- ▶ All specified maintenance intervals must be observed.

NOTICE**Risk if service is not performed regularly**

Wear and material fatigue of the components of terminal units may lead to device malfunctions and malfunctions of the terminal units.

- ▶ Observe the separate instructions for use for the terminal units.

Disinfect and clean the device or components before every service activity, and also when returning for repair purposes.

It is recommended that only genuine Dräger parts are used, and that the parts are replaced by Dräger.

Component	Interval	Measure	Personnel responsible
Terminal units	See instructions for use of the respective manufacturer Every 6 years for Dräger terminal units	Replacement of wearing parts in accordance with the respective manufacturer's specifications	Specialized service personnel, see instructions for use of the respective manufacturer
Daylight cycle control (optional)	Every 6 years	Replacement of the entire control module or of the battery in the control module	Specialized service personnel
Compressed gas hoses	Every 12 years	Replacement	Specialized service personnel
Sealing covers on the terminal units	Every 12 years	Replacement	Specialized service personnel
Vacuum hoses	Every 12 years	Replacement	Specialized service personnel
Waste gas lines in the AGSS	Every 12 years	Replacement	Specialized service personnel

9.4**Repair**

Repairs may be performed only by specialized service personnel.

It is recommended that only original parts from Dräger are used and that the parts are replaced by Dräger.

9.5 Acceptance and handover

After completion of the installation or the service activity, the system must be inspected and accepted by specialized service personnel before it is commissioned.

DrägerService is recommended.

This inspection determines:

- whether the assignment of the power sockets to the power circuits on the supply unit is correct (after completion of the installation),
- whether the safety requirements for the protection of the patient and personnel are met,
- whether the entire functional scope of the system is provided.

The results of the inspection must be documented in writing.

After acceptance, the operationally ready system is handed over to the operating organization with its associated documents. The handover is documented.

The users are then instructed.

10 Disposal

10.1 Disposing of the device

The disposal of electrical and electronic devices is subject to special guidelines. This device must be disposed of in accordance with national regulations. In countries of the European Union, Dräger will organize the return of the device. More information can be found at www.draeger.com/WEEE.

11 Technical data

11.1 Classification

Protection class according to the IEC 60601-1 standard Protection class I

Classification in accordance with EC Directive 93/42/EEC Annex IX Class II b

UMDNS code (Universal Medical Device Nomenclature System) 18-046

11.2 Declaration

Declaration of substances in accordance with Regulation 1272/2008, Appendix VI, Part 3 (CLP regulation)

Certain materials in this product contain the following substances in a proportion exceeding 0.1 % by mass:

- Lead (CAS No. 7439-92-1)

This product is safe to use for patients who are sensitive to the indicated substances.

Dräger is aware of the following residual risks:

- None

11.3 Ambient conditions

During operation

Temperature	10 to 35 °C (50 to 95 °F)
Ambient pressure	700 to 1060 hPa (10.15 to 15.37 psi)
Relative humidity	5 to 95 %, non-condensing

During storage and transport

Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient pressure	500 to 1060 hPa (7.25 to 15.37 psi)
Relative humidity	5 to 95 %, non-condensing

11.4 Internal power consumers

Light fittings, electro-pneumatic brake, and electromagnetic brake

Lighting (LED light)

Ceiling light	100 V~ ; 110 V~ ; 115 V~ ; 120 V~ ; 127 V~ ; 200 V~ ; 220 V~ ; 230 V~ ; 240 V~ / 50 Hz/60 Hz 92 W - White light (operation via switch, dimmer or external DALI bus) - RGB light (operation via external DALI bus) - Daylight cycle (operation via external DALI bus)
Reading light	100 V~ ; 110 V~ ; 115 V~ ; 120 V~ ; 127 V~ ; 200 V~ ; 220 V~ ; 230 V~ ; 240 V~ / 50 Hz/60 Hz 26.4 W Operation via switch, dimmer or external DALI bus
Night light	100 V~ ; 110 V~ ; 115 V~ ; 120 V~ ; 127 V~ ; 200 V~ ; 220 V~ ; 230 V~ ; 240 V~ / 50 Hz/60 Hz 4 W Operation via switch or external DALI bus
Life span of the LEDs	max. 54000 hours

11.5 Replaceable fuses

Fuse for Vimar power socket	F 16 A H 250 V~ 1500 A
Power supply unit for LED lighting	F 8.0 A 125 VDC (GG10498)
DALI control unit	S 0.25 A 125 VDC (G35629)
External DALI interface	250 mA 125 VDC (GG10746)

All specifications are subject to manufacturing tolerances.

11.6 Electro-pneumatic brake

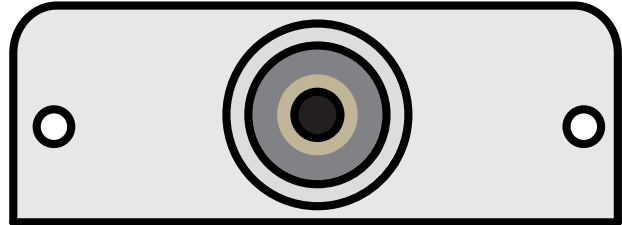
Operating pressure	3.5 bar to 6 bar (50.77 psi to 87.02 psi)
--------------------	--

11.7 Device outputs

Video connections

BNC connectors

Pin assignment



Inner conductor: Signal

Outer conductor: Ground/shielding

Serial, digital video signals conforming to SMPTE 292M via a coaxial cable (75 Ω)

800 mV (±10 %) (−48 mV ÷ 763 mV)

<100 mW

Analog color television signals (PAL, NTSC, SECAM)

−0.4 V

1 V

1.4 Vpp

<100 mW

Signal SDI/HD-SDI

Output voltage

Power

CVBS signal

Line synchronization pulse

White level

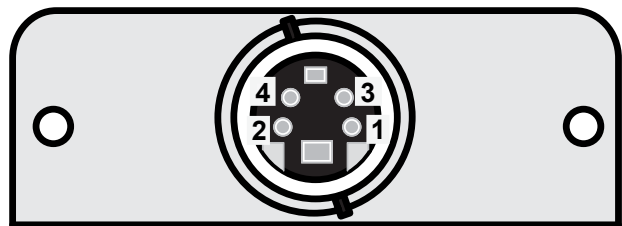
Output voltage

Power

S-Video connector

Pin assignment

Mini DIN S-Video socket (HICON S-VHS)



1 Y ground

2 C ground

3 Luminance (Y)

4 Chroma (C)

S-Video signal

Output voltage, NTSC

Setup 53.57 mV

Y 714.29 mV (peak luma, 100 % white)

C 626.70 mVpp (75 % color bars) 835.60 mVpp (100 % color bars)

Sync −286.00 mV

Output voltage, PAL

Setup 0 mV

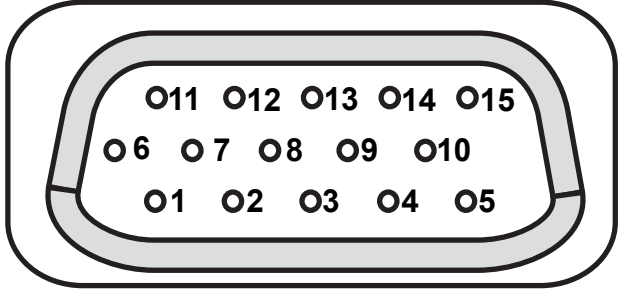
Y 700.00 mV (peak luma, 100 % white)

C 663.80 mVpp (75 % color bars)

885.10 mVpp (100 % color bars)

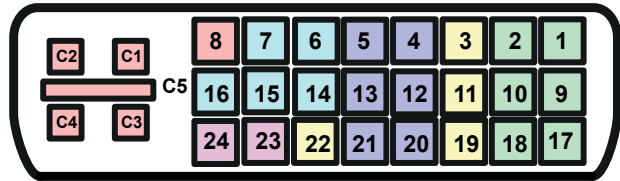
Sync −300.00 mV

11.7 Device outputs (continued)

<p>Power</p> <p>VGA connector</p> <p>Pin assignment</p>	<p><100 mW</p> <p>DE-15/HD-15 socket</p>
	
	<p>1 Red (analog)</p> <p>2 Green or monochrome (analog)</p> <p>3 Blue (analog)</p> <p>4 Not used</p> <p>5 Ground for DDC (digital)</p> <p>6 Ground for red (analog)</p> <p>7 Ground for green (analog)</p> <p>8 Ground for blue (analog)</p> <p>9 Not used</p> <p>10 Ground for synchronization signals (analog)</p> <p>11 ID0 (digital)</p> <p>12 ID1 or DDC data</p> <p>13 Hsync</p> <p>14 Vsync</p> <p>15 DDC clock</p>
<p>VGA signal</p>	<p>Analog video signals (RGBHV component signal):</p> <ul style="list-style-type: none"> - RGB video - Hsync - Vsync <p>Serial, digital video signals:</p> <ul style="list-style-type: none"> - DDC (Display Data Channel) according to VESA standard
<p>Power</p> <p>Output voltage, VESA RGB</p> <p>Output voltage, Hsync/Vsync</p> <p>Output voltage, DDC</p>	<p><2 W</p> <p>0.7 Vpp at 75 Ω</p> <p>5 V (TTL signals)</p> <p>5 V</p>
<p>DVI connector</p>	<p>Standard DVI socket</p>

11.7 Device outputs (continued)

Pin assignment



- 1 Data 2-
- 2 Data 2+
- 3 Shielding for Data 2 and 4
- 4 Data 4-
- 5 Data 4+
- 6 DDC clock
- 7 DDC data
- 8 Vsync
- 9 Data 1-
- 10 Data 1+
- 11 Shielding for Data 1 and 3
- 12 Data 3-
- 13 Data 3+
- 14 +5 V
- 15 Ground for +5 V
- 16 Hot-Plug detection
- 17 Data 0-
- 18 Data 0+
- 19 Shielding for Data 0 and 5
- 20 Data 5-
- 21 Data 5+
- 22 Shielding for clock
- 23 Clock+
- 24 Clock-
- C1 Red
- C2 Green
- C3 Blue
- C4 Hsync
- C5 Ground

TMDS signal

Maximum output voltage

Power

HDMI connector

Serial, digital video signals

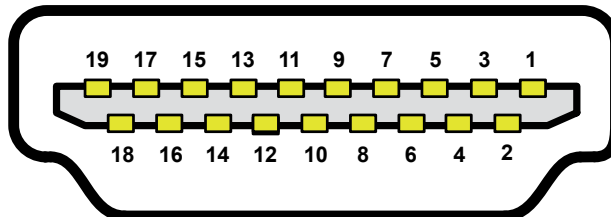
5 V (3.3 V for TMDS) into a terminating resistance of 50 to 100 Ω

<2 W

Socket type A

11.7 Device outputs (continued)

Pin assignment



- 1 Data 2+
- 2 Shielding for Data 2
- 3 Data 2-
- 4 Data 1+
- 5 Shielding for Data 1
- 6 Data 1-
- 7 Data 0+
- 8 Shielding for Data 0
- 9 Data 0-
- 10 Clock+
- 11 Shielding for clock
- 12 Clock-
- 13 CEC
- 14 Not used
- 15 SCL
- 16 SDA
- 17 Ground for DDC
- 18 +5 V
- 19 Hot-plug detection

TMDS signal

Maximum output voltage

Maximum output current

Power

Serial, digital video signals

5 V (3.3 V for TMDS) into a terminating resistance of 50 to 100 Ω

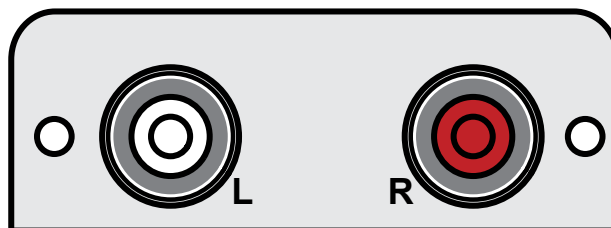
0.5 A (current limited)

<10 W

Audio connection

Cinch connector

Pin assignment



Inner conductor: Signal

Outer conductor: Ground/shielding

Stereo, analog audio frequency signal

Audio signal

Maximum output voltage

30 V

Maximum output current

2 A

Power

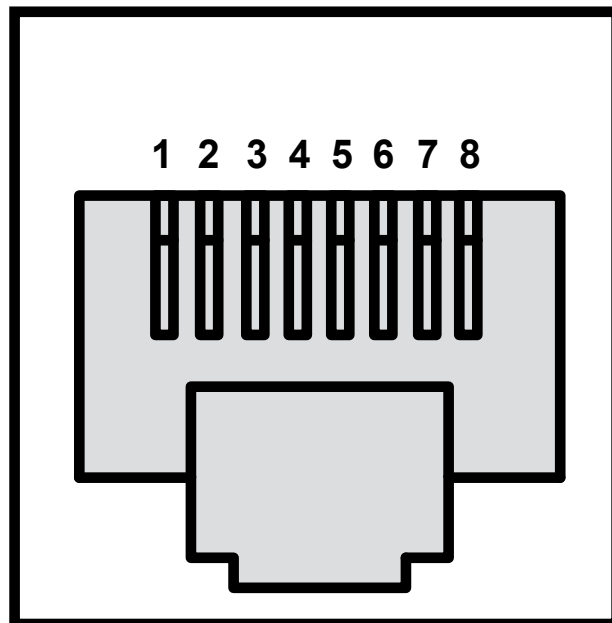
<10 W

11.7 Device outputs (continued)

Data connection

RJ45 connector
Pin assignment

Socket conforming to EIA/TIA-568A/B



- 1 TD+
- 2 TD-
- 3 RD+
- 4 Not used
- 5 Not used
- 6 RD-
- 7 Not used
- 8 Not used

Ethernet signal (10BASE-T)

IEEE 802.3, clause 14 (previously IEEE 802.3i)
Twisted pair Cu cable

Output voltage

± 2.5 V, ≤ 5.5 Vpp

Fast Ethernet signal (100BASE-TX)

IEEE 802.3, clause 24 (previously
IEEE 802.3u)

Twisted pair Cu cable

Output voltage

± 1 V

Fault current

≤ 150 mA

Continuous current

≤ 500 mA (current limited)

Power

< 10 W

11.8 Media supply

Gas terminal units and vacuum terminal units

Ponta C	Supply beam
Ponta E plus / Ponta S plus	Media head, media column, supply beam (optional)

Electrical sockets

Ponta C	Supply beam
Ponta E plus / Ponta S plus	Media head, media column, supply beam (optional)

Communication connections

Ponta C	Supply beam
Ponta E plus / Ponta S plus	Media head, media column, supply beam (optional)

11.9 Mechanical data

Recommended headroom under supply beam

Ponta C: 1800 mm (70.87 in) to 2000 mm (78.74 in)
Ponta E plus / Ponta S plus: 2100 mm (82.68 in) to 2350 mm (92.52 in)

Dimensions

Length of supply beam	2200 mm (86.61 in), 2800 mm (110.24 in), 3100 mm (122.05 in), 3500 mm (137.80 in)
Length of ceiling tube	1000 mm (39.37 in), 1500 mm (59.06 in), 2000 mm (78.74 in)
Diameter of ceiling tube	110 mm (4.33 in)

Weight of supply beam

Ponta C: 28 kg/m (61.73 lb/39.37 in)
Ponta E plus / Ponta S plus: 46 kg/m (101.4 lb/39.37 in)

Load capacity

Ceiling tube	250 kg (551.15 lb)
Ponta C shuttle with equipment pole	Max. load: 45 kg (99 lb), of which a maximum of 30 kg (66 lb) may be applied with a torque of 174 Nm Max. centric load: 15 kg (33 lb)

11.9 Mechanical data (continued)

Ponta C shuttle with equipment rack

Max. load: 100 kg (220 lb),
of which a maximum of 30 kg (66 lb) may be
applied with a torque of 174 Nm
Max. centric load: 15 kg (33 lb)
Only applicable in combination with a bracket. If
no bracket is used, the individual loads of the
equipment pole must be used per equipment
pole.

Travel of shuttle

Ponta C: Complete length of supply beam
Ponta E plus / Ponta S plus: Up to 550 mm
(21.65 in) in both directions (1100 mm
(43.30 in) in total)

11.10 Colors

Supply beam, shuttle

White, NCS-S-0500 N

Outlet panels

White, NCS-S-0500 N or anodized aluminum

11.11 Accessories

Infusion poles and small equipment poles

Infusion pole with bottle cross, 4 hooks
G15020

Dead weight: 1.6 kg (3.52 lb)
Max. load: 50 kg (110 lb)
Max. torque: 83 Nm
Fastened with two frame rail clamps

Infusion pole with bottle bar, 4 hooks
G19170

Dead weight: 2.2 kg (4.85 lb)
Max. load: 50 kg (110 lb)
Max. torque: 83 Nm
Fastened with two frame rail clamps

Infusion pole, tilted, with bottle bar, 4 hooks
G97070

Dead weight: 2.5 kg (5.51 lb)
Max. load: 50 kg (110 lb)
Max. torque: 83 Nm
Fastened with two frame rail clamps

Small equipment pole, 500 mm
G15676

Dead weight: 0.4 kg (0.88 lb)
Max. load: 50 kg (110 lb)
Max. torque: 83 Nm
Fastened with two frame rail clamps

Small equipment pole, 1000 mm
G15677

Dead weight: 0.9 kg (1.98 lb)
Max. load: 50 kg (110 lb)
Max. torque: 83 Nm
Fastened with two frame rail clamps

11.11 Accessories (continued)

Small equipment pole, 1500 mm G15678	Dead weight: 1.3 kg (1.98 lb) Max. load: 50 kg (110 lb) Max. torque: 83 Nm Fastened with two frame rail clamps
Infusion holder, 1 hook G14366	Dead weight: 0.2 kg (0.44 lb) Max. load: 2 kg (4.41 lb) Max. torque: - Fastened with two frame rail clamps
Retaining ring (2 pcs.) G19015	Dead weight: 0.3 kg (0.66 lb) Max. load: 25 kg (55 lb)

Shelves and storage

Shelf with central attachment G15390	Dead weight: 3.4 kg (7.49 lb) Max. load: 5.0 kg (11.0 lb) Max. torque: -
Shelf for small equipment pole G15185	Dead weight: 1.6 kg (3.52 lb) Max. load: 5.0 kg (11.0 lb) Max. torque: -
Swivel cabinet, single G90150	Dead weight: 3.8 kg (8.38 lb) Max. load: 6.0 kg (13.2 lb) Max. torque: -
Swivel cabinet, double G90158	Dead weight: 5.8 kg (12.8 lb) Max. load: 9.0 kg (19.8 lb) Max. torque: -

Rails

Double rail for equipment rack, narrow G47214	Dead weight: 0.9 kg (2.00 lb) When one rail is used: Max. load: 10 kg (22.0 lb) Max. torque: 24 Nm When both rails are used: Max. load: 5 kg (11.0 lb) each Max. torque: 18 Nm
Double rail for equipment rack, wide G47215	Dead weight: 1.1 kg (2.45 lb) When one rail is used: Max. load: 10 kg (22.0 lb) Max. torque: 24 Nm When both rails are used: Max. load: 5 kg (11.0 lb) each Max. torque: 18 Nm
Standard rail, 400 mm G13851	Dead weight: 0.4 kg (0.88 lb) Max. load: 10 kg (22.0 lb) Max. torque: 12.7 Nm
Standard rail, 600 mm G13829	Dead weight: 0.5 kg (1.10 lb) Max. load: 6 kg (13.2 lb) Max. torque: 7.6 Nm

11.11 Accessories (continued)

Standard rail, 800 mm G14449	Dead weight: 0.6 kg (1.33 lb) Max. load: 5.0 kg (11.0 lb) Max. torque: 6.3 Nm
Standard rail, 400 mm, for equipment pole 2M86185	Dead weight: 0.6 kg (1.33 lb) Max. load: 5.0 kg (11.0 lb) Max. torque: -
Compact rail, 100 mm x 100 mm 2M85337	Dead weight: 0.9 kg (1.98 lb) Max. load: 30 kg (66.1 lb) Max. torque: 61 Nm
Double rail for equipment pole G13450	Dead weight: 0.6 kg (1.33 lb) Max. load: 5 kg (11.0 lb) Max. torque: 6.3 Nm
Double rail for equipment rack, narrow G13430	Dead weight: 1.2 kg (2.64 lb) Max. load: 2 x 5 kg (2 x 11.0 lb) Max. torque: -
Double rail for equipment rack, wide G13364	Dead weight: 1.6 kg (3.52 lb) Max. load: 2 x 5 kg (2 x 11.0 lb) Max. torque: -
Rail holder, short G13822	Dead weight: 0.2 kg (0.45 lb) Max. load: 10 kg (22.0 lb) Max. torque: 16.6 Nm
Rail holder, long G13821	Dead weight: 0.6 kg (1.33 lb) Max. load: 10 kg (22.0 lb) Max. torque: 16.6 Nm
Cable management arm G13040	Dead weight: 1.0 kg (2.20 lb) Max. load: 3.0 kg (6.61 lb) Max. torque: -
Holder on equipment pole for cables and hoses (4 pcs.) G13171	Dead weight: 0.2 kg (0.44 lb)
Holder on rail for cables and hoses (10 pcs.) G15225	Dead weight: 0.1 kg (0.22 lb)
Rail handle for equipment pole G92439	Dead weight: 1.0 kg (2.2 lb)

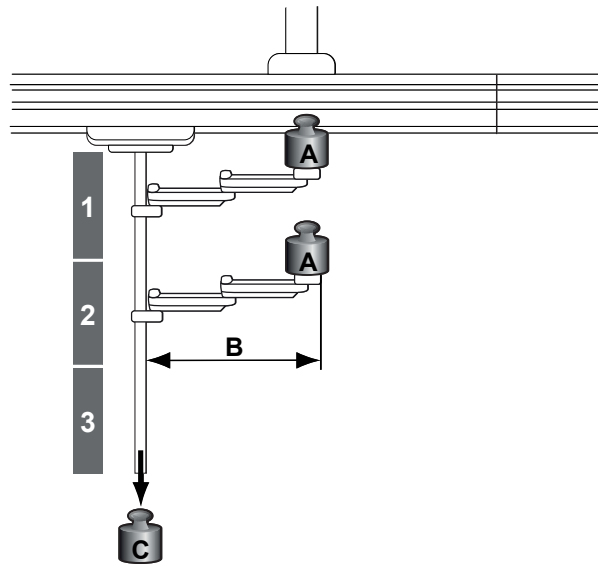
11.12 Load distribution of accessories

The maximum total weight is calculated from the dead weight plus the maximum load. Due to the modular construction of the ceiling supply units and the accessories used, the maximum total weight must be recalculated for each configuration.

As a rule, a maximum of 2 accessories may be combined with one another. Exceptions are defined in the following chapters.

11.12.1 Ponta C: Load distribution on the equipment pole

11.12.1.1 Configuration example with 2 double arms



48982

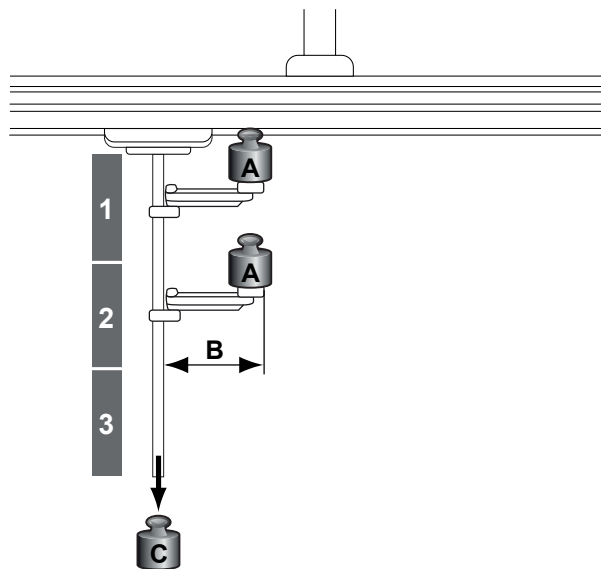
Requirements for the mounting system

- 1 double arm must be positioned in the upper zone (1)
- 1 double arm must be positioned in the central zone (2)
- Maximum load (A): 7.5 kg (16.5 lb)
- Maximum length (B): 800 mm (400 mm/400 mm) (31.5 in (15.75 in/15.75 in))
Adapters can cause the maximum length to be exceeded.

Requirements for the equipment pole

- Payload (C): 30 kg (66 lb)

11.12.1.2 Configuration example with 2 single arms



49963

Requirements for the mounting system

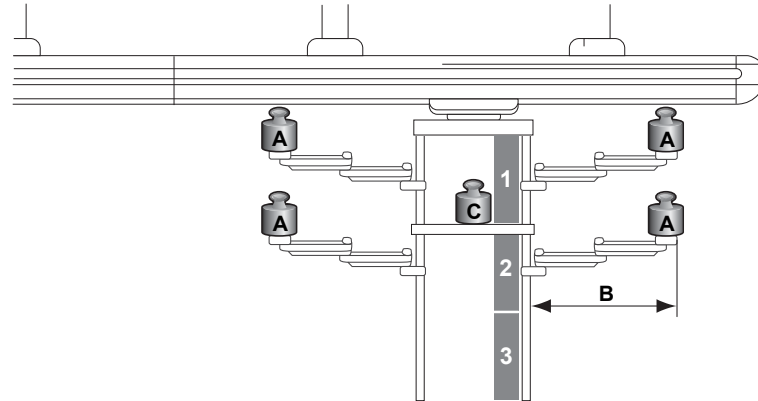
- 1 single arm must be positioned in the upper zone (1)
- 1 single arm must be positioned in the central zone (2)
- Maximum load (A): 15 kg (33 lb)
- Maximum length (B): 400 mm (15.75 in)
Adapters can cause the maximum length to be exceeded.

Requirements for the equipment pole

- Payload (C): 15 kg (33 lb)

11.12.2 Ponta C: Load distribution on the equipment rack

11.12.2.1 Configuration example with 4 double arms



49891

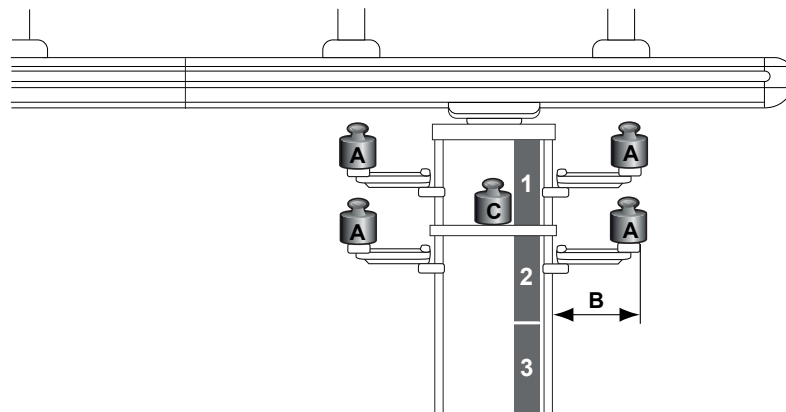
Requirements for the mounting system

- 2 double arms must be positioned in the upper zone (1)
- 2 double arms must be positioned in the central zone (2)
- Maximum load (A): 7.5 kg (16.5 lb)
- Maximum length (B): 800 mm (400 mm/400 mm) (31.5 in (15.75 in/15.75 in))
Adapters can cause the maximum length to be exceeded.

Requirements for the double rail or shelf

- 1 double rail or 1 shelf must be positioned centrally between the double arms
- Payload (C): 40 kg (88 lb)

11.12.2.2 Configuration example with 4 single arms



49892

Requirements for the mounting system

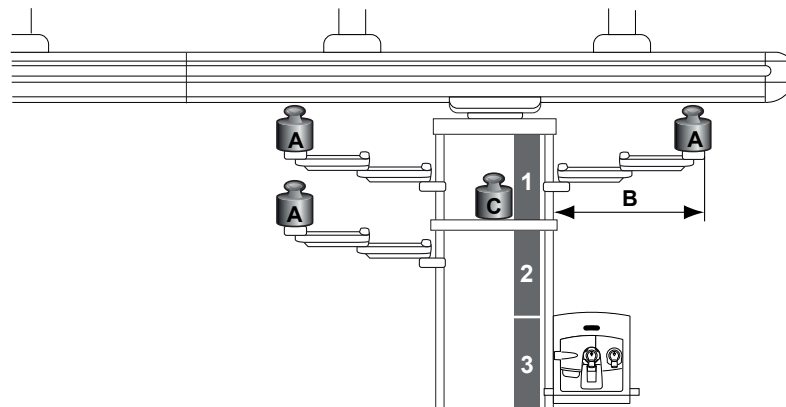
- 2 single arms must be positioned in the upper zone (1)
- 2 single arms must be positioned in the central zone (2)
- Maximum load (A): 15 kg (33 lb)
- Maximum length (B): 400 mm (15.75 in)
Adapters can cause the maximum length to be exceeded.

Requirements for the double rail or shelf

- 1 double rail or 1 shelf must be positioned centrally between the single arms
- Payload (C): 35 kg (77 lb)

11.12.2.3

Configuration example with 3 double arms and 1 ventilation unit



408693

Requirements for the mounting system

- 2 double arms must be positioned in the upper zone (1)
- 1 double arm must be positioned in the central zone (2)
- Maximum load (A): 7.5 kg (16.5 lb)
- Maximum length (B): 800 mm (400 mm/400 mm) (31.5 in (15.75 in/15.75 in))
Adapters can cause the maximum length to be exceeded.

Requirements for the double rail or shelf

- 1 double rail or 1 shelf must be positioned centrally between the double arms
- Payload (C): 40 kg (88 lb)

Requirements for the ventilation unit

- The ventilation unit must be positioned in the lower zone (3)

11.13 EMC declaration

11.13.1 General information

This device was tested for electromagnetic compatibility using accessories from the list of accessories. Other accessories may only be used if they do not compromise the electromagnetic compatibility. The use of non-compliant accessories may result in increased electromagnetic emissions or decreased electromagnetic immunity of the device.

This device may be used in the direct vicinity of other devices only if Dräger has approved this device arrangement. If no approval has been given by Dräger, it must be ensured that this device functions correctly in the desired arrangement before use. The instructions for use for the other devices must be followed.

11.13.2 Electromagnetic environment

The emissions from this device were tested in the following frequency ranges:

Emissions	Compliance
Radiated emissions	Class A, group 1 (150 kHz to 30 MHz)
Conducted emissions	Class A, group 1 (30 MHz to 1 GHz)

NOTICE

- The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required), this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.
-

11.13.3 Electromagnetic immunity

This device may only be used in environments specified in section "Environments of use" on page 7.

Immunity against	Test level and required electromagnetic environment
Electrostatic discharge (ESD) (IEC 61000-4-2)	Contact discharge: ± 8 kV
	Air discharge: ± 15 kV
Fast transient electrical disturbances (bursts) (IEC 61000-4-4)	Power cable: ± 2 kV
	Longer signal input lines/output lines: ± 1 kV
Impulse voltages (surges) (IEC 61000-4-5)	Voltage, external conductor – external conductor: ± 1 kV
	Voltage, external conductor – protective ground conductor: ± 2 kV
Magnetic fields at mains frequency (IEC 61000-4-8)	50 Hz: 30 A/m
Voltage dips and short interruptions in the supply voltage (IEC 61000-4-11)	Voltage dips of 30 % to 100 %, 8.3 ms to 5 s, different phase angles
Radiated high-frequency disturbances (IEC 61000-4-3)	80 MHz to 2.7 GHz: 3 V/m
Conducted high-frequency disturbances (IEC 61000-4-6)	150 kHz to 80 MHz: 3 V, ISM bands: 6 V
Electromagnetic fields in the vicinity of wireless high-frequency communication equipment	Various frequencies from 385 MHz to 5785 MHz: 9 V/m to 28 V/m

11.13.4 Recommended separation distances from wireless communication devices

To ensure that the full functional integrity of this device is not compromised, there must be a separation distance of at least 1.0 m (3.3 ft) between this device and wireless high-frequency communication equipment.

12 Order list

Ponta order list

1. Handles

Handle without sensor	G39969
-----------------------	--------

2. Remote control

No remote control	-
-------------------	---

3. Mounting system

Single arm, 200 mm, with infusion adapter, for equipment pole	G38700
---	--------

Single arm, 300 mm, with infusion adapter, for equipment pole	G38701
---	--------

Single arm, 400 mm, with infusion adapter, for equipment pole	G38702
---	--------

Double arm, 200 mm/200 mm, with infusion adapter, for equipment pole	G38703
--	--------

Double arm, 300 mm/200 mm, with infusion adapter, for equipment pole	G38704
--	--------

Double arm, 300 mm/300 mm, with infusion adapter, for equipment pole	G38705
--	--------

Double arm, 400 mm/200 mm, with infusion adapter, for equipment pole	G38706
--	--------

Double arm, 400 mm/300 mm, with infusion adapter, for equipment pole	G38707
--	--------

Double arm, 400 mm/400 mm, with infusion adapter, for equipment pole	G38708
--	--------

Single arm, 200 mm, with monitor adapter (Slide), for equipment pole	G38709
--	--------

Single arm, 300 mm, with monitor adapter (Slide), for equipment pole	G38710
--	--------

Single arm, 400 mm, with monitor adapter (Slide), for equipment pole	G38711
--	--------

Double arm, 200 mm/200 mm, with monitor adapter (Slide), for equipment pole	G38712
---	--------

Double arm, 300 mm/200 mm, with monitor adapter (Slide), for equipment pole	G38713
---	--------

Double arm, 300 mm/300 mm, with monitor adapter (Slide), for equipment pole	G38714
---	--------

Double arm, 400 mm/200 mm, with monitor adapter (Slide), for equipment pole	G38715
---	--------

Double arm, 400 mm/300 mm, with monitor adapter (Slide), for equipment pole	G38716
---	--------

Double arm, 400 mm/400 mm, with monitor adapter (Slide), for equipment pole	G38717
---	--------

Lift arm with monitor adapter (Slide), for equipment pole	G38718
---	--------

Lift arm with monitor adapter (Slide), plus single arm, 300 mm, for equipment pole	G38719
--	--------

Ponta order list (continued)

Lift arm with keyboard tray and monitor adapter (Slide), for equipment pole	G38720
Lift arm with keyboard tray and monitor adapter (Slide), plus single arm, 300 mm, for equipment pole	G38721
Monitor adapter (VESA), for equipment pole	G38722
Single arm, 200 mm, with monitor adapter (VESA), for equipment pole	G38723
Single arm, 300 mm, with monitor adapter (VESA), for equipment pole	G38724
Single arm, 400 mm, with monitor adapter (VESA), for equipment pole	G38725
Double arm, 200 mm/200 mm, with monitor adapter (VESA), for equipment pole	G38726
Double arm, 300 mm/200 mm, with monitor adapter (VESA), for equipment pole	G38727
Double arm, 300 mm/300 mm, with monitor adapter (VESA), for equipment pole	G38728
Double arm, 400 mm/200 mm, with monitor adapter (VESA), for equipment pole	G38729
Double arm, 400 mm/300 mm, with monitor adapter (VESA), for equipment pole	G38730
Double arm, 400 mm/400 mm, with monitor adapter (VESA), for equipment pole	G38731
Lift arm with monitor adapter (VESA), for equipment pole	G38732
Lift arm with monitor adapter (VESA), plus single arm, 300 mm, for equipment pole	G38733
Lift arm with keyboard tray and monitor adapter (VESA), for equipment pole	G38734
Lift arm with keyboard tray and monitor adapter (VESA), plus single arm, 300 mm, for equipment pole	G38735
Lift arm with monitor adapter (Slide) and short handle, for equipment pole	G38800
Lift arm with monitor adapter (Slide) and short handle, plus single arm, 300 mm, for equipment pole	G38801
4. Cable management for equipment poles	
Cable management for equipment pole, 500 mm	G47078
Cable management for equipment pole, 800 mm	G39991
Cable management for equipment pole, 1300 mm	G47079

Ponta order list (continued)**5. Infusion poles and small equipment poles**

Infusion pole with bottle cross, 4 hooks	G15020
Infusion pole with bottle bar, 4 hooks	G19170
Infusion pole, tilted, with bottle bar, 4 hooks	G97070
Small equipment pole, 500 mm	G15676
Small equipment pole, 1000 mm	G15677
Small equipment pole, 1500 mm	G15678
Infusion holder, 1 hook	G14366
Retaining ring (2 pcs.)	G19015

6. Shelves and storage

Shelf with central attachment	G15390
Shelf for small equipment pole	G15185
Swivel cabinet, single	G90150
Swivel cabinet, double	G90158
Double rail for equipment pole	G13450

7. Modular storage configuration

Modular storage configuration	GG16040
Drawer, 340 mm x 430 mm, 1B	GG53093
Drawer, 340 mm x 630 mm, 1.5B	GG53094
Drawer, 390 mm x 430 mm, 1B	GG53095
Drawer, 390 mm x 530 mm, 1.25B	GG53096
Drawer, 390 mm x 630 mm, 1.5B	GG53097
Insert for drawer, narrow	G47290
Insert for drawer, medium	G47291
Insert for drawer, wide	G47292

8. Equipment poles for media columns

Equipment pole, 700 mm	G47469
Equipment pole, 1000 mm	G47470
Equipment pole, 1250 mm	G47471
Frame rail clamp for equipment poles	G39847

9. Equipment poles for media heads and crossbars

Equipment pole, 700 mm, with threaded rod	G19340
Equipment pole, 1000 mm, with threaded rod	G47138
Equipment pole, 1500 mm, with threaded rod	G23201

10. Rails

Double rail for equipment rack, narrow	G47214
Double rail for equipment rack, wide	G47215
Fairfield double rail for equipment rack, narrow	G47580
Fairfield double rail for equipment rack, wide	G47582
Standard rail for equipment pole, 400 mm	2M86185
Rail handle for equipment pole	G92439
Compact rail, 100 mm x 100 mm	2M85337

Ponta order list (continued)

Rail holder, short For standard rail on frame rail clamp, shelf, double rail, or compact rail	G13822
---	--------

Rail holder, long For standard rail on frame rail clamp, shelf, double rail, or compact rail	G13821
--	--------

Cable management arm For standard rail on frame rail clamp, shelf, double rail, or compact rail	G13040
---	--------

11. Attaching Mova Cart Docking to frame rails

No attachment of Mova Cart	-
----------------------------	---

12. Connecting anesthesia machines to equipment racks

Adapter for single arm with infusion adapter, for equipment rack (2 pcs.)	G47001
--	--------

Single arm, 300 mm, with infusion adapter and V-rail adapter	GG10459
---	---------

13. Mounts for devices in the Evita V range and Babylog VN range

Mounting plate for ventilation unit, for equip- ment pole	8419912
--	---------

14. Other device mounts

No device mounts	-
------------------	---

15. Other accessories

Holder on equipment pole for cables and hoses (10 pcs.)	G15225
--	--------

Holder on equipment pole for cables and hoses (4 pcs.)	G13171
---	--------

VarioLux For standard rail on frame rail clamp, shelf, double rail, or compact rail	G27954
---	--------

Retrofit options**1. IACS kit for supply units**

IACS kit 2 x 5 m (6.5 x 16 ft)	G26455
--------------------------------	--------

IACS kit 2 x 8 m (6.5 x 26 ft)	G26456
--------------------------------	--------

2. Crossbars

Crossbar, narrow	G47019
------------------	--------

Crossbar, wide	G47152
----------------	--------

Index

A

Accessories	
Safety instruction	11

C

Clinical users	8
----------------	---

D

Definitions of load designations	37
Disinfectants	83
Disposal	90

E

Electromagnetic compatibility	15
Electromagnetic environment	106
Electromagnetic immunity	107
EMC declaration	106
Environments of use	7
Environments of use for accessories	7

F

Fault – Cause – Remedy	79
------------------------	----

G

Getting started	60
-----------------	----

I

Inspection	86
Instructions for use	
Safety instruction	9

M

Maintenance	87
Mandatory reporting	16
Modifications	
Safety instruction	12

O

Operation	61
-----------	----

P

Precautionary statements	8
Product description	17
Product label	
Safety instruction	9

R

Repair	88
Reprocessing	81
Validated procedures	82
Reprocessing personnel	8

S

Safety instructions	8
Safety-related information	7
Service	86
Service personnel	8
Specialized service personnel	8
Storage	83
Surface disinfectants	83
Symbols	
Safety instruction	9

T

Technical data	91
Trademarks	6
Transport	83
Troubleshooting	79

U

User	8
User group	
Requirements	7

This page has been left blank intentionally.



 Manufacturer
Drägerwerk AG & Co. KGaA
Moislinger Allee 53 – 55
23542 Lübeck
Germany
+49 451 8 82-0

9512063 – 6937.160 en
© **Drägerwerk AG & Co. KGaA**
Edition: 2 – 2021-08
(Edition: 1 – 2021-01)
Dräger reserves the right to make modifications
to the medical device without prior notice.

