



MAGNETOM Family

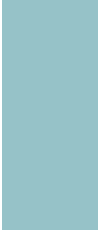
Operator manual - Exchangeable patient tabletop and trolley



Manufacturer's notes:

This product bears a CE marking in accordance with the provisions of regulation 93/42/EEC of June 14, 1993 for medical products.

The CE marking applies only to medico-technical products/ medical products introduced in connection with the above-mentioned comprehensive EC regulation.



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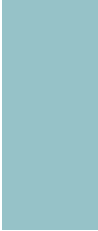


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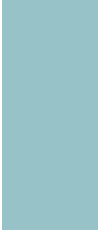
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Introduction



This operator manual is an addendum to the MR system operator manual. It applies to systems MAGNETOM Avanto, Espree, Symphony a Tim System, Trio a Tim System, and Verio.

This operator manual includes descriptions covering standard as well as optional hardware. Contact your Siemens Sales Organization with respect to the hardware available for your system. The description of an option does not infer a legal requirement to provide it.

The graphics, figures, and medical images used in this operator manual are examples only. The actual display and design of these may be slightly different on your system.

Male and female patients are referred to as “the patient” for the sake of simplicity.

References to “Siemens Service” include service personnel authorized by Siemens.



Important icons

For readability, certain contents are highlighted. In the following sections, you will find the symbols and their contents used:

- ✓ Prerequisites for the operating steps to follow
- ◇ Request for action
- ▣ Item in list



Notes for optimal use of the MR system.



Remarks that facilitate work with the system.



Problem

Description of possible sources for error

- ◇ Requests for actions to solve problems

<i>A.1 Safety information</i>	<i>A.1-1</i>
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Safety information



All safety information of the valid operator manuals has been adhered to without fail. It is merely supplemented by the notes contained herein.

Special safety-related aspects are involved during transfer of the exchangeable patient tabletop.

Exchangeable patient tabletop and trolley correspond to the safety requirements of norm IEC 60 601-1.

Overview of warning and safety notices



CAUTION

Collision and points of injury due to the trolley/transport unit or during transfer of the exchangeable patient tabletop!

Injury to patient and operating personnel

- ✧ Ensure that there are no persons or objects located in the travel range of the trolley/transport unit and the exchangeable patient tabletop/exchangeable patient table.
 - ✧ Ensure that the infusion hose is not caught or the infusion cannula pulled out, while the exchangeable patient table is being moved or while the exchangeable patient tabletop is being transferred.
 - ✧ Move the exchangeable patient tabletop/exchangeable patient table only if all possible points of injury can be monitored.
 - ✧ Ensure that parts of the body, hair, or clothing do not get caught.
-

**CAUTION**

Collision hazards involving the exchangeable patient table and trolley!

Injury to the patient

- ✧ After use, remove the trolley from the travel range of the exchangeable patient table.
-

**CAUTION**

Collision and tilting hazards!

Injury to the patient

- ✧ Ensure that the trolley is fully docked to the MR system prior to lowering the exchangeable patient tabletop.
-



CAUTION

The transfer of the exchangeable patient tabletop is not performed as described or the transfer of the exchangeable patient tabletop is performed with the lifting pedal!

Injury to patient and operating personnel due to dropping-down tabletop

- ✧ To transfer the exchangeable patient tabletop from the MR system to the trolley, lower the carrier plate by using only the remote control or the control unit at the magnet.
- ✧ Never use the lifting pedal for transferring the exchangeable patient tabletop from the MR system to the trolley.



Trolley must be completely lowered prior to transfer from or to the MR system.



The trolley/transport unit supports patients weighing up to 200 kg.



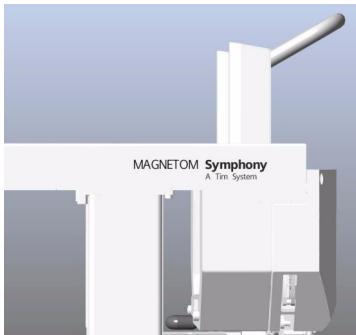
During docking, ensure that the space between docking rod and guide rail is free of infusion hoses, clothes, etc.

System-specific labels

The trolley includes the system-specific label that allows for its allocation to the respective system type.

Example of a label: Symphony a Tim System

- ✧ Ensure that only trolleys are operated at an MR system whose system-specific labels agree with the system type.



Warning signs and labels

Collision and points of injury



While moving the trolley/transport unit and the exchangeable patient tabletop/exchangeable patient table, patients or other persons may be subject to injury.

Zones with a higher than normal potential for injuries are indicated by the following warning sign:

- ✧ Note the locations identified with the point of injury warning sign.
- ✧ Prior to operating the trolley/transport unit and the exchangeable patient tabletop/exchangeable patient table, ensure that parts of the body, hair, or clothing of the patient or personnel cannot get caught.
- ✧ Ensure that there are no objects on the carrier plate.
- ✧ Always use the belt straps to secure the patient.

Incorrect transfer of the exchangeable patient tabletop

If the transfer of the exchangeable patient tabletop is not performed as described via lowering the carrier plate, an audible signal will indicate this error. Please observe the described workflow: (→ [Page B.2-9 Lowering the carrier plate](#))

The label on the front side of the trolley advises you against wrong operation:

Audible Signal!

Audible Signal !

Incorrect transfer of the exchangeable tabletop will cause a patient table error indicated by an audible signal. To avoid this, the user instruction must be followed.

Incorrect transfer of the exchangeable tabletop will cause a patient table error indicated by an audible signal. To avoid this, the user instruction must be followed.

- ✧ Please note that this label is available only with software version syngo MR B17 and higher.

Malfunctioning

Do not use the trolley/transport unit under the following circumstances:

- ❑ The interlocking mechanism of the exchangeable patient tabletop does not work.
- ❑ The brakes do not work.
- ❑ The guide rail and/or the docking rod is defective.
- ❑ The mounting device cannot be raised or lowered.
- ✧ If this is the case, notify Siemens Service.



<i>B.1 Description</i>	<i>B.1-1</i>
Overview of the operating elements	B.1-6
<i>B.2 Operation</i>	<i>B.2-1</i>
Transferring the exchangeable patient tabletop from the MR system to the trolley	B.2-2
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Transferring the patient to the MR system	B.2-17
Removing the trolley from the MR system	B.2-24



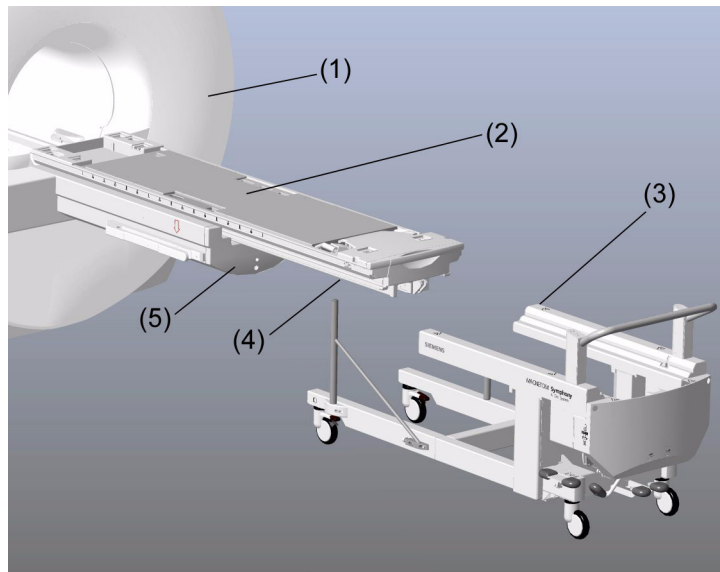
Description

The option exchangeable patient tabletop and trolley provides for the following:

- ❑ Transporting immobile patients from the bed to the MR system
- ❑ Transferring the patient to the MR system without the need for repositioning

To move immobile patients from the bed to the MR system, the exchangeable patient tabletop is transferred from the MR system by means of the trolley.

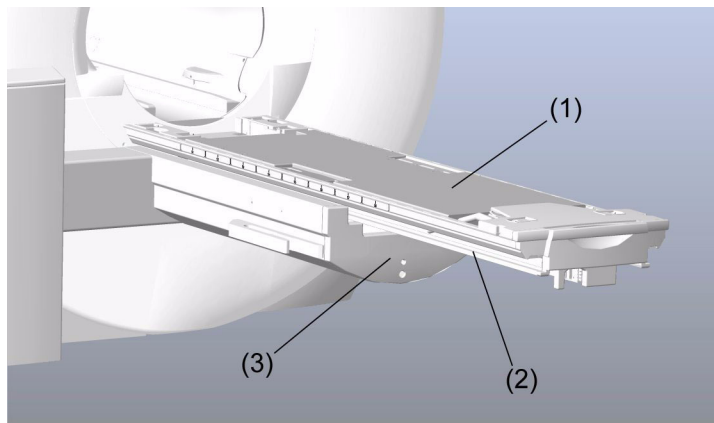
For mobile patients who do not require means of transportation, the exchangeable patient tabletop remains at the MR system.



Exchangeable patient tabletop and trolley

- (1) MR system
- (2) Exchangeable patient tabletop
- (3) Trolley
- (4) Carrier plate
- (5) Supporting frame of the MR system

If the exchangeable patient tabletop is located on the carrier plate, the exchangeable patient tabletop and the carrier plate form the exchangeable patient table on the supporting frame of the MR system. The exchangeable patient table takes over the function of the patient table and is operated in the same way. (→ MR system operator manual)

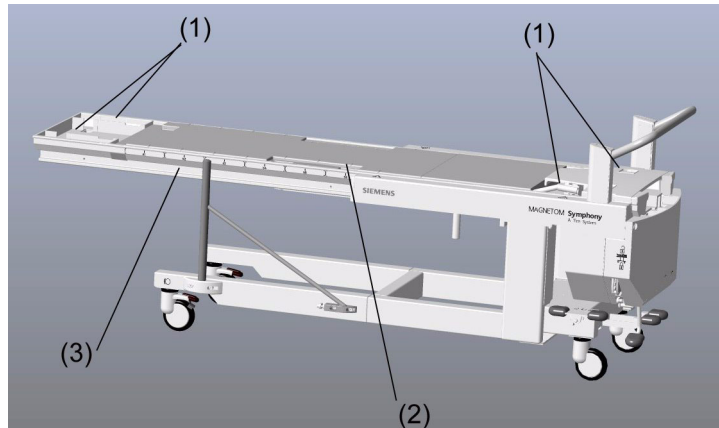


- (1) Exchangeable patient tabletop
- (2) Carrier plate
- (3) Supporting frame of the MR system

Immobile patients

Immobile patients are transferred on the exchangeable patient tabletop and trolley to the MR system.

In this case, the exchangeable patient tabletop and the trolley are considered the transport unit.



Transport unit

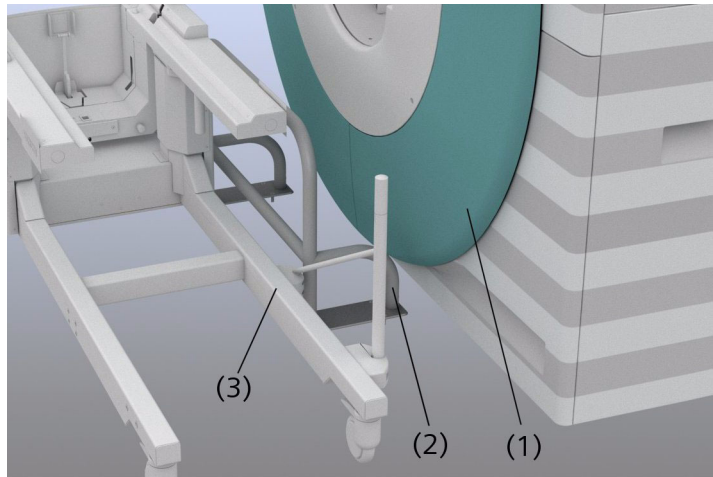
- (1) Recesses for coil sockets and plugs
- (2) Exchangeable patient tabletop
- (3) Fixations for belt straps

Mobile patients

For mobile patients who do not require means of transportation, the exchangeable patient tabletop remains at the MR system. Together with the carrier plate, it forms the exchangeable patient table on the supporting frame of the MR system. The exchangeable patient table is operated the same way as the patient table. (→ MR system operator manual)

Collision protection frame

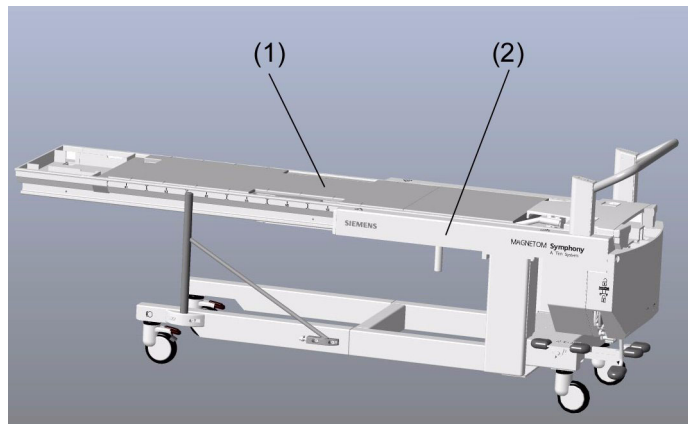
For MAGNETOM Verio, a special collision protection frame is installed to provide a definite distance between the trolley and the rear side of the magnet.



- (1) Rear side of the magnet
- (2) Collision protection frame
- (3) Trolley

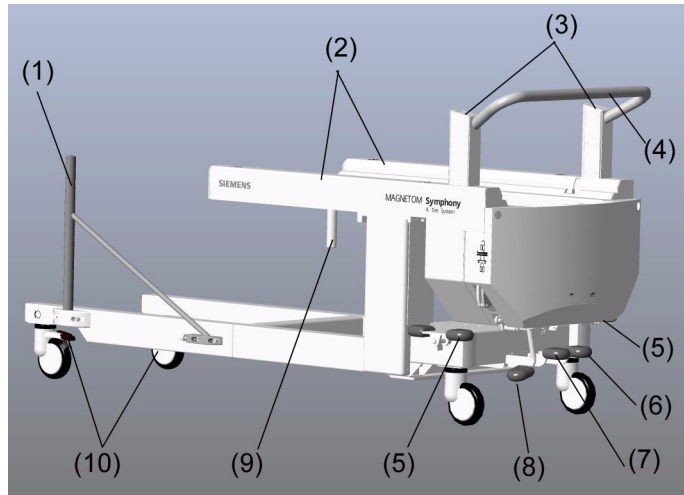
Overview of the operating elements

Transport unit



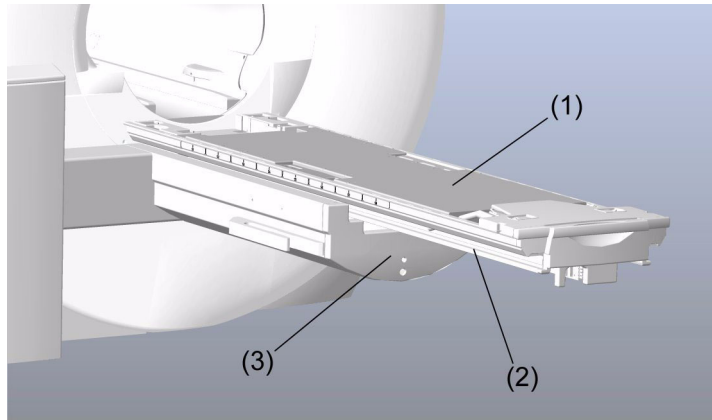
- (1) Exchangeable patient tabletop
- (2) Trolley

Trolley



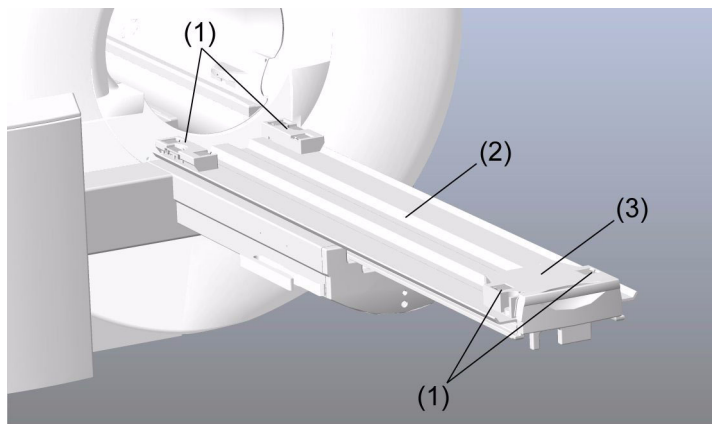
- (1) Docking rod
- (2) Mounting device
- (3) Guide rails with remote control
- (4) Handle
- (5) Brake, foot end
- (6) Pedal for raising the trolley
- (7) Pedal for lowering the trolley
- (8) Interlocking/unlocking pedal
- (9) Stop pin
- (10) Brake, head end

Exchangeable patient table



- (1) Exchangeable patient tabletop
- (2) Carrier plate
- (3) Supporting frame of the MR system

Carrier plate



Carrier plate (without exchangeable patient tabletop)

- (1) Coil sockets
- (2) Carrier plate
- (3) Connections for vacuum cushion, squeeze ball, and headphones

When the MR system is used for mobile patients who do not require means of transportation, the exchangeable patient tabletop remains at the MR system. The trolley is located outside the travel range of the exchangeable patient table.

The exchangeable patient table is operated the same way as the patient table. (→ MR system operator manual)

When using the MR system for immobile patients, the following steps are involved in operating the exchangeable patient table and the transport unit:

- ❑ Transferring the exchangeable patient tabletop from the MR system to the trolley
- ❑ Repositioning the patient from the bed to the transport unit
- ❑ Transferring the patient to the MR system

Transferring the exchangeable patient tabletop from the MR system to the trolley

The following steps are involved in transferring the exchangeable patient tabletop from the MR system to the trolley:

- ❑ Docking the trolley at the MR system
- ❑ Lowering the exchangeable patient tabletop onto the mounting device
- ❑ Interlocking the exchangeable patient tabletop on the trolley
- ❑ Lowering the carrier plate
- ❑ Removing transport unit from the MR system

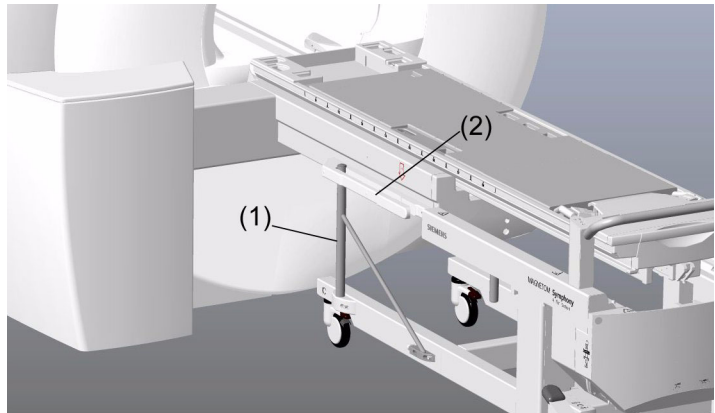
Docking the trolley at the MR system

- ✧ Move the exchangeable patient tabletop into the home position. (→ MR system operator manual)
- ✧ Press the pedal for lowering to lower the trolley completely.



Ensure that the trolley has been completely lowered.

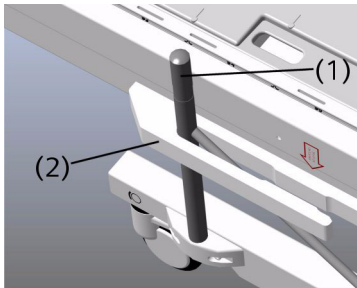
- ✧ Move the trolley toward the supporting frame until the docking rod slides into the guide rail.



Docking procedure

- (1) Docking rod at trolley
- (2) Guide rail at supporting frame of the MR system

- ✧ Slide the trolley forward in the direction of the magnet until the docking rod locks into position.



- (1) Docking rod
- (2) Guide rail

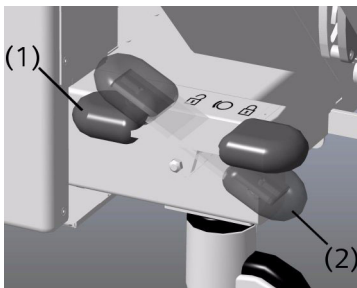


Ensure that the docking rod of the trolley locks into the guide rail correctly. Otherwise, it is not possible to lower the exchangeable patient tabletop.

- ✧ Lock the brakes at the foot end by stepping on the  side of the brake pedal.

The brakes are locked.

The trolley is fully docked at the MR system.



- (1) Horizontal position: Brake is unlocked
- (2) Tilted position: Brake is locked

Lowering the exchangeable patient tabletop onto the mounting device

- ✓ The trolley is fully docked at the MR system.



CAUTION

Collision and tilting hazards!

Injury to the patient

- ✧ Ensure that the trolley is fully docked to the MR system prior to lowering the exchangeable patient tabletop.

- ✧ Press the **Lower** key at the remote control and keep it pressed until the movement stops so that the exchangeable patient tabletop rests on the mounting device of the trolley.

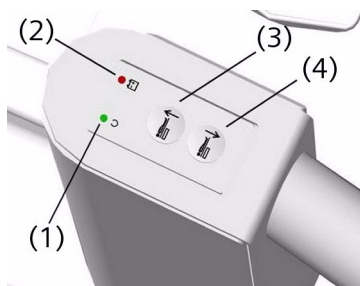
or

- ✧ Press the **Table Down/Outward** key at the control unit and keep it pressed until the movement stops so that the exchangeable patient tabletop rests on the mounting device of the trolley.

The exchangeable patient tabletop rests on the mounting device of the trolley.



Ensure that the exchangeable patient tabletop is completely lowered onto the mounting device. NEVER use the lifting pedal for transferring the exchangeable patient tabletop from the MR system to the trolley!



(1) **Operation** LED

(2) **Battery** LED

(3) **Raise** key

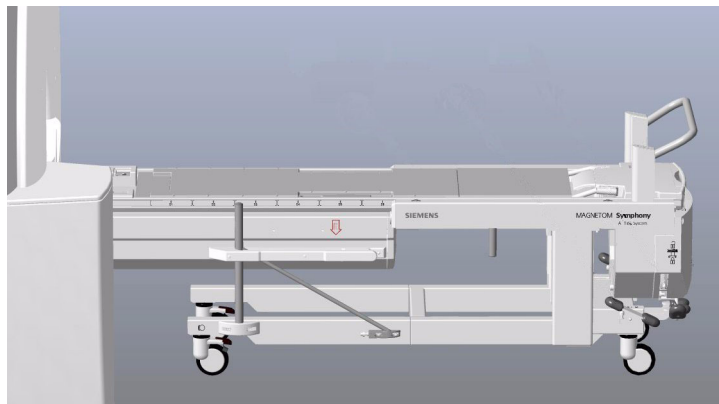
(4) **Lower** key



The height of the exchangeable patient tabletop can be changed via remote control only when the trolley is docked at the MR system.

The green **Operation** LED glows, when the **Raise** or **Lower** key is pressed.

The red **Battery** LED lights in addition to the green **Operation** LED, when the batteries are nearly empty and have to be replaced.



The exchangeable patient tabletop is in transfer position and rests on the mounting device of the trolley.

Interlocking exchangeable patient tabletop on trolley

- ✓ The exchangeable patient tabletop rests on the trolley.
- ✓ The interlocking/unlocking pedal is in upper position.
- ✧ Move to the side of the trolley.
- ✧ Firmly step on the interlocking/unlocking pedal.



Use the interlocking/unlocking pedal only when the exchangeable patient tabletop rests on the mounting device of the trolley.

The interlocking/unlocking pedal moves downward in the direction of the pedals for lifting/lowering and audibly locks into the lower position.

The interlocking/unlocking pedal remains in the lower position.

- ✧ Disconnect all coil plugs and plugs for headphone, squeeze ball, and vacuum cushion.



CAUTION

Objects between the exchangeable patient tabletop and the trolley!

Exchangeable patient tabletop can not be completely interlocked

Injury to patient and operating personnel due to dropped-down tabletop

- ✧ Ensure that there are no objects (for example, blankets) between the exchangeable patient tabletop and the trolley.
- ✧ Ensure that the exchangeable patient tabletop lies plane on the mounting device of the trolley before interlocking.

-
- ✧ Ensure that the exchangeable patient tabletop is firmly attached to the trolley.



If there are recurring problems during transferring the exchangeable patient tabletop, notify Siemens Service.

Lowering the carrier plate

- ✓ All coil plugs and other components are disconnected and all protective covers at the coil sockets are closed.
- ✓ The exchangeable patient tabletop is firmly attached to the trolley.
- ✓ The interlocking/unlocking pedal is in the lower position.

**CAUTION**

The transfer of the exchangeable patient tabletop is not performed as described or the transfer of the exchangeable patient tabletop is performed with the lifting pedal!

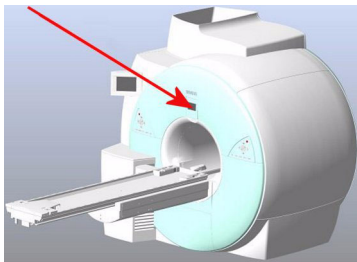
Injury to patient and operating personnel due to dropping-down tabletop

- ✧ To transfer the exchangeable patient tabletop from the MR system to the trolley, lower the carrier plate by using only the remote control or the control unit at the magnet.
- ✧ Never use the lifting pedal for transferring the exchangeable patient tabletop from the MR system to the trolley.

-
- ✧ Press the **Lower** key at the remote control and keep it pressed until the movement automatically stops and the carrier plate has been lowered completely.

— or —

- ✧ Press the **Table Down/Outward** key at the control unit and keep it pressed until the movement automatically stops and the carrier plate has been lowered completely.



The carrier plate can only be lowered if all coil plugs and plugs for headphone, squeeze ball, and vacuum cushion are disconnected, and all protective covers are closed. Otherwise, the patient table display of the MR system shows a request to disconnect these devices.



Ensure that the carrier plate is completely lowered.



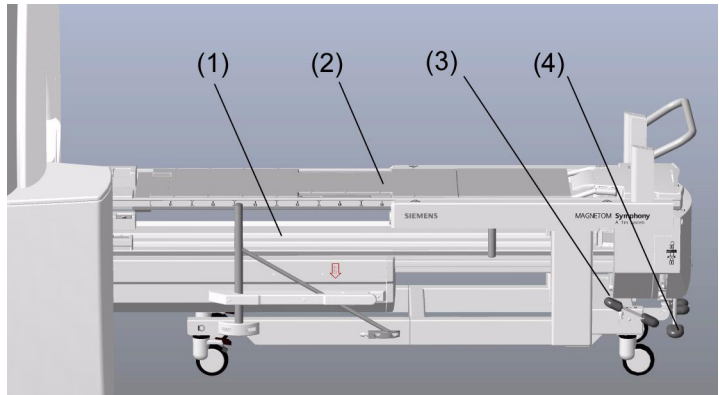
The lowering of the carrier plate is not possible, if the system detects that the exchangeable patient tabletop is not firmly attached to the trolley. The firm attachment to the trolley is indicated by two closed locks shown on the patient table display. Do not use the lifting pedal to transfer the exchangeable patient tabletop.



If the transfer of the exchangeable patient tabletop is not performed as described via lowering the carrier plate, an audible signal will indicate this error. Please observe the workflow described in this section.

The exchangeable patient tabletop is now released from the carrier plate and positioned on the trolley. The carrier plate is completely lowered. The exchangeable patient tabletop and the trolley form the transport unit.

Now, the trolley can be undocked and is ready for transfer.



Transport unit

- (1) Carrier plate, fully lowered
- (2) Exchangeable patient tabletop on trolley
- (3) Brakes locked, foot end
- (4) Interlocking/locking pedal in lower position

Removing the transport unit from the MR system

- ✓ The exchangeable patient tabletop is firmly attached to the trolley.
- ✧ Ensure that the carrier plate is completely lowered.



If the carrier plate is not completely lowered, it is not possible to remove the transport unit from the MR system, or damage to the transport unit may occur.

- ✧ Unlock the brakes at the foot end by stepping on the  side of the brake pedal.
- ✧ Remove the transport unit from the MR system.

Repositioning the patient from the bed to the transport unit

The following steps are required to reposition the patient from the bed to the transport unit:

- ❑ Moving the transport unit to the patient
- ❑ Locking the brakes
- ❑ Setting the height for the transport unit
- ❑ Transferring the patient
- ❑ Moving the patient on the transport unit to the MR system

Moving the transport unit to the patient

- ✓ The exchangeable patient tabletop is positioned on the trolley.
- ✓ The exchangeable patient tabletop has been removed from the MR system.
- ◇ Unlock the brakes.
- ◇ Move the transport unit to the patient.

Locking the brakes

- ✓ The transport unit is located next to the bed holding the immobile patient.



CAUTION

Uncontrolled trolley movements!

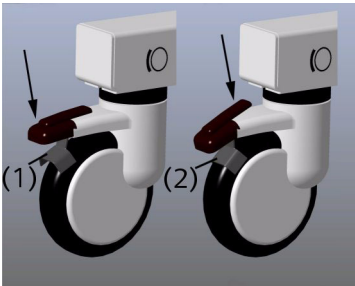
Injury to the patient

- ✧ Ensure that all brakes of the trolley are locked when you transfer the patient to the exchangeable patient tabletop.

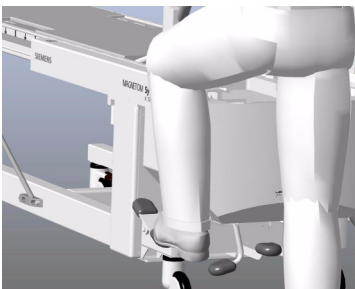
- ✧ Lock the brakes at the head end.

(1) Horizontal position: Brake is unlocked

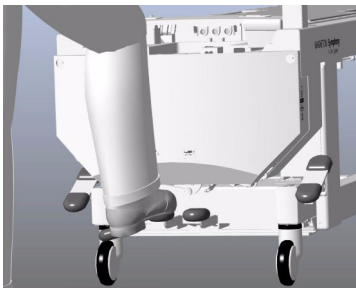
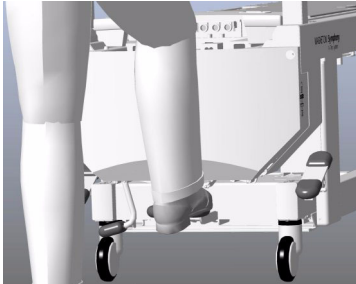
(2) Tilted position: Brake is locked



- ✧ Lock the brakes at the foot end by stepping on the  side.



Setting the height for the transport unit



- ✓ The transport unit is located next to the bed holding the immobile patient.
- ✓ The brakes at the head end and foot end are locked.
- ◇ Step on the pedal for lifting (right) – several times, if necessary – until the exchangeable patient tabletop of the transport unit has reached the desired height.

— or —

- ◇ Keep the pedal for lowering (left) depressed until the exchangeable patient tabletop of the transport unit has reached the desired height.



The pedal for lifting can only be operated when the exchangeable patient tabletop is on the trolley.

Transferring the patient

- ✓ The transport unit is located next to the bed holding the immobile patient.
- ✓ The brakes at the head end and foot end are locked.
- ✓ The height of the exchangeable patient tabletop of the transport unit corresponds to the height of the bed.
- ✧ Transfer the patient to the transport unit.
- ✧ Secure the patient with straps on the transport unit.

Moving the patient on the transport unit to the MR system

- ✓ Patient is positioned on the transport unit.
 - ✓ Patient is secured with straps.
 - ✧ Unlock the brakes at the head end.
 - ✧ Unlock the brakes at the foot end by stepping on the  side.
- After unlocking them, the brakes at the head and foot end remain in the horizontal position.
- ✧ Move the patient on the transport unit to the MR system.

Transferring the patient to the MR system

The following steps are required to transfer the patient to the MR system:

- ❑ Docking the transport unit at the MR system
- ❑ Transferring the exchangeable patient tabletop with patient to the carrier plate

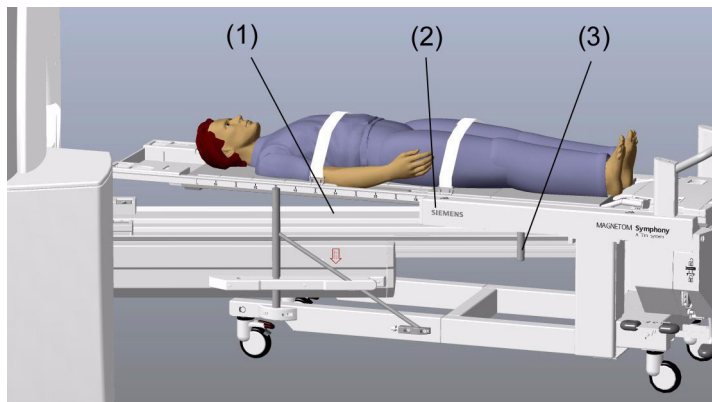
Docking the transport unit at the MR system

- ✓ The carrier plate is empty. The exchangeable patient tabletop is not on the carrier plate.
- ✧ Step on the pedal for lowering until the exchangeable patient tabletop on the trolley is completely lowered.



Ensure that the exchangeable patient table is completely lowered on the trolley prior to moving the exchangeable patient tabletop to the MR system. Otherwise, it is not possible to transfer the exchangeable patient tabletop with the patient to the MR system.

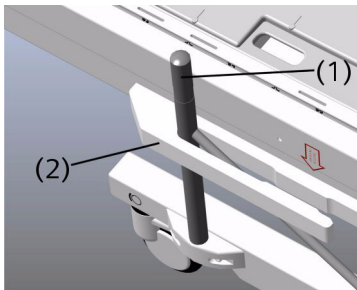
- ✧ Move the transport unit toward the carrier plate until the docking rod slides into the guide rail of the supporting frame.
- ✧ Turn the transport unit into the direction of the carrier plate until the stop pin on the underside of the transport unit prevents additional turning.



Aligning transport unit to carrier plate

- (1) Carrier plate
- (2) Mounting device of trolley is fully lowered
- (3) Stop pin

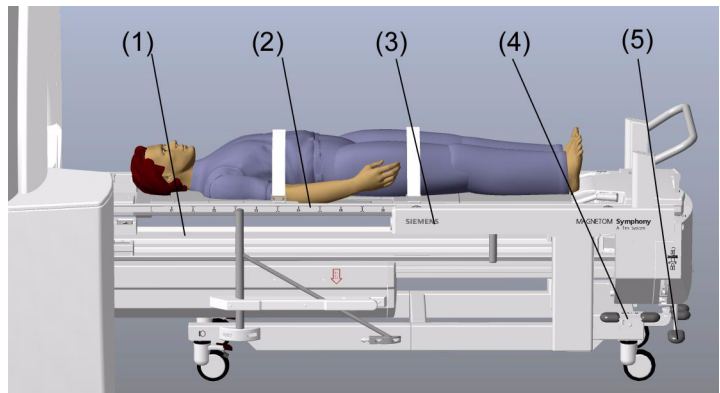
Carrier plate and transport unit are now aligned.



- ✧ Slide the transport unit in the direction of the magnet until the docking rod locks into position.

(1) Docking rod

(2) Guide rail

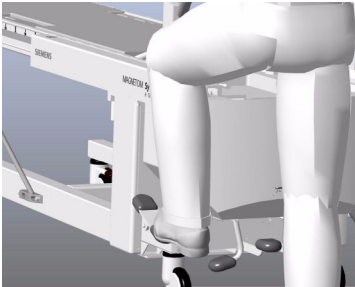


Transfer position with patient

- (1) Carrier plate, fully lowered
- (2) Exchangeable patient tabletop on trolley
- (3) Mounting device of trolley, fully lowered
- (4) Brakes unlocked, foot end
- (5) Interlocking/unlocking pedal in lower position; exchangeable patient tabletop, locked



Ensure that the docking rod of the trolley locks into the guide rail correctly. Otherwise, it is not possible to raise the carrier plate.



- ◇ Lock the brakes at the foot end by stepping on the  side of the brake pedal.

The brakes are locked.

Transport unit with patient is fully docked at the MR system.

Transferring the exchangeable patient tabletop with patient to the carrier plate

- ✓ The transport unit is fully docked to the MR system.



WARNING

Transferring the exchangeable patient tabletop to the carrier plate!

Injury to the patient

- ◇ Ensure that the patient's hair, parts of the body, or items of clothing are not caught between the exchangeable patient tabletop, the carrier plate, and the tunnel bore.
- ◇ Ensure that the patient is secured with the belt straps provided for this purpose.

- ◇ Transfer the exchangeable patient tabletop by raising the carrier plate.

- ✧ To raise the carrier plate until it automatically stops, press the **Raise** key on the remote control.

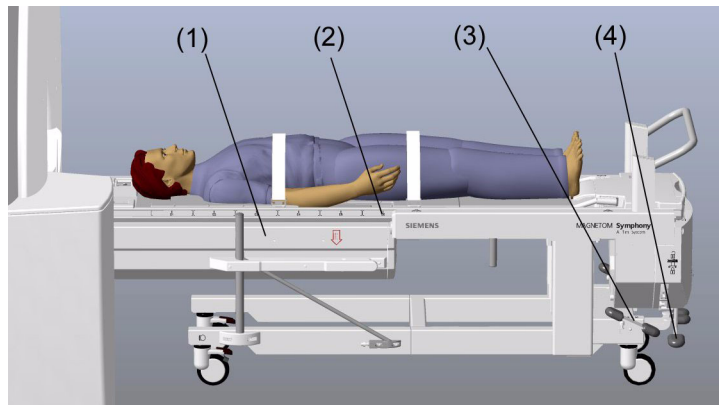
— or —

- ✧ To raise the carrier plate until it automatically stops, press the **Table Up/Inward** key on the control unit.

The upward movement of the carrier plate is automatically stopped when it reaches the transfer position. The exchangeable patient tabletop is now supported by the carrier plate.



The exchangeable patient tabletop can only be unlocked from the mounting device of the trolley when the carrier plate supports the exchangeable patient tabletop in the transfer position.



Transfer of exchangeable patient tabletop with patient

- (1) Carrier plate after being raised into transfer position
- (2) Exchangeable patient tabletop attached to trolley
- (3) Brakes locked, foot end
- (4) Interlocking/unlocking pedal in lower position



- ✧ Move to the side of the transport unit.
- ✧ Firmly step on the interlocking/unlocking pedal to unlock the exchangeable patient tabletop.

The exchangeable patient tabletop is unlocked audibly. The interlocking/unlocking pedal moves back into its original position.

- ✧ Lift the exchangeable patient tabletop with the patient from the mounting device of the trolley by raising the carrier plate until it stops automatically.
- ✧ Raise the carrier plate until it automatically stops in home position by pressing the **Raise** key on the remote control.

— or —

- ✧ Raise the carrier plate until it automatically stops in home position by pressing the **Table Up/Inward** key at the control unit.

The exchangeable patient tabletop is lifted off the trolley. The exchangeable patient tabletop and the carrier plate on the supporting frame of the MR system form the exchangeable patient table.

The exchangeable patient table is operated the same way as the patient table. (→ MR system operator manual)



During the examination, the trolley can remain docked at the foot end of the MR system with its brakes, foot end locked.

Moving the patient back to the bed

- ✓ The patient is positioned on the exchangeable patient tabletop after the examination.
- ✓ The exchangeable patient table is in home position.
- ✧ Transfer the exchangeable patient tabletop with the patient to the trolley.



The transfer of the exchangeable patient tabletop and patient to the trolley after the examination is performed analog to the transfer of the exchangeable patient tabletop to the trolley, see: (→ [Page B.2-2 Transferring the exchangeable patient tabletop from the MR system to the trolley](#))

- ✧ After removing the transport unit with the patient from the MR system, move the patient back to the bed.



The repositioning of the patient from the transport unit to the bed is performed analog to the transfer of the transport unit to the patient's bed, see: (→ [Page B.2-13 Repositioning the patient from the bed to the transport unit](#))

Removing the trolley from the MR system

If there are no other examinations of immobile patients, the exchangeable patient tabletop (without patient) is transferred to the MR system (→ [Page B.2-17 Transferring the patient to the MR system](#)). There it forms the exchangeable patient table together with the carrier plate on the supporting frame of the MR system.

- ✓ The exchangeable patient tabletop is removed from the trolley and connected to the carrier plate of the MR system.



CAUTION

Collision hazards involving the exchangeable patient table and trolley!

Injury to the patient

- ✧ After use, remove the trolley from the travel range of the exchangeable patient table.

-
- ✧ Unlock the brakes at the foot end.

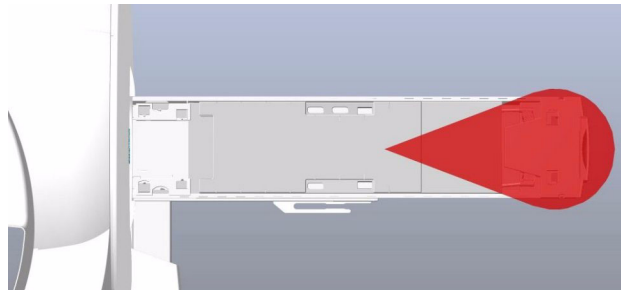
The trolley can be moved around freely.

- ✧ After use, remove the trolley from the travel range of the exchangeable patient table.

**Checking the docking area
with the infrared sensor**

At the end of the supporting frame, an infrared sensor is located to detect not correctly docked trolley or other objects. If the trolley is not correctly docked at the MR system, or there are objects in the registration range of the sensor, the lowering of the exchangeable patient table is not possible.

- ❖ Prior to lowering the exchangeable patient tabletop, ensure that the trolley is correctly docked at the MR system and there are no objects between the trolley and the MR system.



Registration range of infrared sensor



You are not able to lower the exchangeable patient table?

Trolley or other objects are located in the registration range of the infrared sensor.

The patient table display of the MR system shows the following warning sign:

Objects in the registration range of the infrared sensor

- ✧ Slide the trolley forward in the direction of the magnet until the docking rod locks into position.
- ✧ Remove all objects from the registration range of the infrared sensor.
- ✧ Move out of the registration range of the infrared sensor.

The warning sign on the patient table display is no longer shown.

Now, you can lower the exchangeable patient table.

Maintenance

C.1	<i>Replacing the batteries</i>	C.1-1
C.2	<i>Cleaning and disinfection</i>	C.2-1
	General recommendations	C.2-1
	Cleaning and disinfection schedule	C.2-1
	Spreading of germs	C.2-1
	Unsuitable cleaning agents and surface disinfectants	C.2-1
	Cleaning	C.2-3
	Disinfection	C.2-4



Replacing the batteries

Replacing the batteries of the remote control

When the **Battery** LED lights up, the batteries – type Mignon AA (LR06) – have to be replaced.



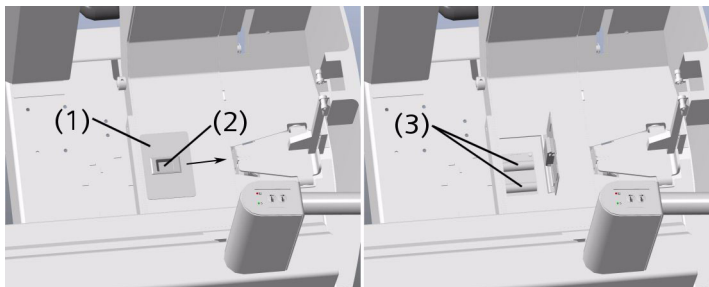
Never replace batteries in the examination room.

Ensure correct polarity.

Do not use accumulators.

Dispose of batteries according to legally binding requirements.

The battery compartment is located below the handle of the trolley.



- (1) Cover for battery compartment (battery compartment is closed)
- (2) Recessed grip
- (3) Batteries, type Mignon AA (LR06) (battery compartment is open)

- 
- ✧ Pull the recessed grip in the direction of the arrow and lift off the cover of the battery compartment.
 - ✧ Replace both batteries.
 - ✧ Close the cover of the battery compartment.

Cleaning and disinfection

General recommendations

Cleaning and disinfection schedule

- ✧ Establish a plan covering the cleaning and disinfection intervals as well as the cleaning agents/disinfectants used for the exchangeable patient table and the trolley (e.g. consult a hospital hygienist).

Spreading of germs

Cleaning solutions and to a certain degree disinfectants can be quickly contaminated when applied with a cloth.

- ✧ Ensure that new and properly prepared cleaning and disinfectant utensils are used each time for cleaning and disinfection.

Unsuitable cleaning agents and surface disinfectants

The following cleaning agents and disinfectants may not be used since they either harm the exchangeable patient tabletop or carrier plate or destroy electronic components.

Sprays

Cleaning and disinfecting sprays easily seep into coil sockets where they damage electronic components. In addition, they may lead to flammable mixtures or vapors.

Abrasive cleaning agents

Cleaning agents that include abrasive material may damage the surface layer of the exchangeable patient table.

Aggressive solutions

Aggressive solutions are not a replacement for cleaning agents or surface disinfectants. They may lead to surface damage of the material, i.e. hairline cracks.

The following should be avoided:

- ❑ Organic solutions, e.g. aldehyde, acetone, and spot remover
- ❑ Gasoline
- ❑ Chemicals that release chlorine or are based on substituted phenols
- ✧ Please read the instructions of the manufacturer to inform yourself with respect to the chemical composition and use of cleaning agents and disinfectants.

Cleaning

- ✧ Dilute cleaning agents according to manufacturer's instructions.
- ✧ Please note the residence time and temperature to be used for the cleaning agent.
- ✧ Clean the trolley and exchangeable patient tabletop with a damp cloth.
- ✧ Clean the stainless steel parts of the trolley with a commercially available stainless steel cleaner.

The space between the exchangeable patient tabletop and the carrier plate may contain contaminations as well. Contrast residues may lead to artifacts.

- ✧ Check the carrier plate for contaminations each time you transfer the exchangeable patient tabletop.
- ✧ When cleaning the carrier plate, ensure that the coil sockets do not come in contact with water.

Disinfection

The following liquid disinfectants are recommended based on the following ingredients:

- ❑ Water soluble disinfectants (not containing aldehydes)

Heavy contamination has a negative effect on disinfectants.

- ❖ Preclean all surfaces prior to disinfecting them.

Surface disinfectants may be aggressive enough to warrant you wearing protective gloves. In addition, the inhaling of concentrated vapors may be damaging to your health.

- ❖ Dilute or dose concentrated disinfectants according to manufacturer's instructions or as described in the hygienic plan.
- ❖ Please note the residence time and temperature to be used for the disinfectant.
- ❖ Follow manufacturer's instructions.

D.1 Systems

D.1-1

MAGNETOM Avanto/MAGNETOM Espree

D.1-1

MAGNETOM Symphony a Tim System

D.1-2

MAGNETOM Trio a Tim System

D.1-3

MAGNETOM Verio

D.1-4



MAGNETOM Avanto/MAGNETOM Espree

Length	1935 ± 5 mm without exchangeable patient tabletop 2500 ± 5 mm with exchangeable patient tabletop
Width	730 ± 5 mm
Height	982 ± 5 mm
Lifting range	702 ± 5 mm to 902 ± 5 mm
Number of strokes at the pedal for full travel	32 + 2 / – 5
Lowering speed across the entire lifting range	10-12 s without load 4-6 s with 200 kg load
Total weight	Approx. 155 kg without exchangeable patient tabletop Approx. 185 kg with exchangeable patient tabletop
Permissible patient weight	200 kg

MAGNETOM Symphony a Tim System

Length	1935 ± 5 mm without exchangeable patient tabletop 2500 ± 5 mm with exchangeable patient tabletop
Width	730 ± 5 mm
Height	1052 ± 5 mm
Lifting range	702 ± 5 mm to 902 ± 5 mm
Number of strokes at the pedal for full travel	32 + 2 / – 5
Lowering speed across the entire lifting range	10-12 s without load 4-6 s with 200 kg load
Total weight	Approx. 155 kg without exchangeable patient tabletop Approx. 185 kg with exchangeable patient tabletop
Permissible patient weight	200 kg

MAGNETOM Trio a Tim System

Length	1935 ± 5 mm without exchangeable patient tabletop 2500 ± 5 mm with exchangeable patient tabletop
Width	772 ± 5 mm
Height	1122 ± 5 mm
Lifting range	780 ± 5 mm to 902 ± 5 mm
Number of strokes at the pedal for full travel	26 + 2 / – 5
Lowering speed across the entire lifting range	6 s (approx. 22 mm/s) without load 2.5 s (approx. 60 mm/s) with 200 kg load
Total weight	Approx. 155 kg without exchangeable patient tabletop Approx. 185 kg with exchangeable patient tabletop
Permissible patient weight	200 kg

MAGNETOM Verio

Length	1935 ± 5 mm without exchangeable patient tabletop 2500 ± 5 mm with exchangeable patient tabletop
Width	740 ± 5 mm
Height	1122 ± 5 mm
Lifting range	780 ± 5 mm to 902 ± 5 mm
Number of strokes at the pedal for full travel	26 + 2 / – 5
Lowering speed across the entire lifting range	6 s (approx. 22 mm/s) without load 2.5 s (approx. 60 mm/s) with 200 kg load
Total weight	Approx. 160 kg without exchangeable patient tabletop Approx. 195 kg with exchangeable patient tabletop
Permissible patient weight	200 kg

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