ATMOS
MedizinTechnik

Instructions for Use

ATMOS Chair Comfort | Professional

English

CE

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1 Introduction

With these Instructions for Use (also referred to as instructions in the following), we would like to give the user and operator useful information on how to operate the ATMOS examination and treatment chair (also referred to as chair in the following) safely and appropriately.
Some functions or equipment that your chair may not have are also described in these instructions.

These instructions contain information on how to use the chair safely as intended.

Following the instructions helps to:

- avoid dangers.
- reduce downtimes.
- lower ongoing operating costs.
- increase the reliability and service life of the chair.

We reserve the right to make technical changes as part of the further development of the chair described in these instructions without prior notice.

The original version of these instructions was compiled in German. All other language versions are translations of these instructions.

1.1 Validity

These instructions apply only to the chair and accessories supplied by ATMOS Medizin-Technik GmbH & Co. KG (also abbreviated as ATMOS).

Manufacturer:

GREINER GmbH
Wettestraße 1
74385 Pleidelsheim / Germany

1.2 Notice on illustrations

The photos/illustrations are schematic diagrams and may vary from the actual circumstances or the components actually used.

1.3 Warranty and liability

- Our General Terms and Conditions (GTC) in their respective valid version at www.atmosmed.com apply.
- Your authorised specialised dealer is the suitable contact for complaints (damage, deficiencies or other reasons for complaints). Make sure to **definitely** submit the data on the type plate (possibly with a photo).
- The more precise the transmitted data are, the better and more targeted the remedy that can be provided will be.

NOTE	This chair has not been approved for the North American market, in particular the United States of America. The distribution and use of the chair in these markets, also via third parties, is prohibited by the manufacturer.

1.4 Service instructions

Service instructions can be provided upon request. They help the service technicians of the specialised dealers authorised by us or other specialised personnel authorised by the operator in maintaining or repairing the chair.

1.5 Type plate

The type plate of the chair can be found either on the back plastic cover of the bottom part (electrical height adjustment) or on the back cover of the hydraulic pump (hydraulic height adjustment) (not illustrated).

The explanation of symbols can be found in chapter “9.1 Explanation of symbols” on page 38.

You can find additional type plates on all electrical components.

Type plates are documents that must not be altered or removed.
Damaged or lost type plates must be replaced true to the original.

2 Safety

The main purpose of the safety information is to prevent personal injury. The safety information is also intended to help avoid material damage.

As operator, you have acquired an ATMOS Chair. You are therefore also responsible for operating it appropriately as intended.

2.1 Signal words

The following signal words and symbols are used in these instructions to indicate dangers, prohibitions and important information. They must be read and strictly observed.

DANGER	This signal word indicates an imminent danger resulting in **serious injuries**, and in some cases **death**.

WARNING	This signal word indicates a **potentially imminent danger**, which could result in **serious injuries** or even **death**.

CAUTION	This signal word indicates a **potentially imminent danger**, which could result in **minor** to **serious injuries**.

NOTICE	This signal word indicates a **potentially imminent danger**, which could result in **material and environmental damage**.

TIP	Indicates application tips or other particularly important information on how to use the chair.

2.2 Device safety

ATMOS chairs are manufactured in compliance with the applicable national and international standards and provisions according to the current state of the art. This chair meets the demands on safety and functionality. It bears the CE marking, which documents the fulfilment of the basic requirements for medical devices.

The chair described in these instructions was designed and manufactured in compliance with the Medical Device Regulation (EU) 2017/745 (MDR) of the European Parliament and Council and meets its requirements. The chair is an active medical device of risk class I in accordance with the classification rules in Annex VIII of the MDR (electrical versions only).

The validity of the declaration of conformity will expire if changes to the chair are made by customers or third parties, such as conversions of any kind, use of external accessories, changes to the software, removal of warning and information labels (not an exhaustive list).

The chair is largely resistant to EMC interferences from other electrical equipment operated nearby due to the selected sturdy, interference-resistant design of the electrical adjustment devices. Nevertheless, portable high-frequency communication devices and aerials may affect the chair. That is why such devices must be operated at a distance of more than 30 cm from all parts of the chair.

In spite of an extensive EMC test in accordance with CISPR11 according to class B and group 1, it is still possible for other devices to be subjected to interference by the chair. In such cases, switch off the chair completely by pulling the power plug or disconnect it from the mains supply or, if necessary, observe a greater distance to the faulty device and change their alignment. Do not use the same socket if possible.
This applies in particular when simultaneously using highly sensitive measurement instruments. Their measurement results may be affected under certain circumstances.

The chair may be delivered with equipment variants. If necessary, observe the instructions for use for the respective equipment variants. You can obtain additional information from your authorised specialised dealer.

It is essential that all prohibition, warning and instruction symbols or notices on the chair are observed. The symbols or notices must always be legible and complete. Damaged or lost type plates or notes must be replaced true to the original.

The chair is mainly made of steel pipes or steel sections. The surfaces are either powder-coated or coated with zinc or chrome. All surfaces are safe in the event of skin contact.

2.2.1 Inspections and testing

Legal foundations

Operators of electrically powered and medically used chairs are obliged to maintain the safe condition of medical devices over their entire service life in accordance with the Medical Device Regulation (EU) 2017/745 (MDR) and the resulting respective national laws. This also includes regular professional maintenance and regular safety inspections. The applicable national provisions must be observed.

ATMOS always recommend annual maintenance according to the maintenance table with a simultaneous electrical inspection in accordance with IEC 62353 (see Service Instructions).

2.3 Personal safety

To avoid errors and ensure faultless operation of the chair, the safety information included in these Instructions for Use must be read completely and understood and made constantly accessible to the user (in printed or electronic form).

Basic instruction of the user by ATMOS or their authorised specialised dealer can take place at the request of the operator.
Participation in such training is certified with the name, date and signature on the form intended for this purpose.

For the definition or classification of the groups of persons addressed in these Instructions for Use, see the Glossary.

The applicable national and legal provisions must be observed.

Notices to the operator

- This chair meets all requirements of the Medical Device Regulation (EU) 2017/745 (MDR) for medical devices.
- Observe your obligations as operator to ensure permanent safe operation of this medical device without endangering patients, users or third parties.
- If a patient or user suffers serious injuries or even dies when using the chair, the operator must report the incident in writing to the competent national authorities.

Notices to the user

- Before using a chair in medical areas, the user must ensure that the chair is fully functional and in orderly condition and must observe the Instructions for Use.
- The same applies to any equipment variants installed on the chair.

☞ If serious incidents occur in connection with the chair, which means serious injuries or even death, inform the responsible authorities of your country!

2.4 Intended use

The ATMOS Chair is a medical chair used by patients in healthcare facilities such as hospitals, clinics and medical practices, including those of occupational physicians. It is intended exclusively for use in buildings and under normal ambient conditions.

The ATMOS Chair has been developed specially for treatment or examination with the patient sitting or lying down.

- The maximum patient weight for the chair is 200 kg for the ATMOS Chair Comfort and 220 kg for the ATMOS Chair Professional.
- The chair enables patients to be positioned in a convenient and comfortable manner before, during and after treatment or examination. The user is supported in their work in terms of ergonomics and quality.
- The intended users are trained and instructed medical personnel of the department in concern (e.g. nurses, carers, physicians, assistants).
- Have the chair installed and put into service by the technical personnel of the operator or an authorised specialised dealer.

2.4.1 Reasonably foreseeable misuse

Reasonably foreseeable misuse can result in hazards.
A few examples of “reasonably foreseeable misuse” are specified in the following list (not exhaustive):

- Use near high-frequency surgical devices, MRI scanners or defibrillators.
- Use in environments where flammable or explosive gases or vapours (e.g. anaesthetics) may be present.
- Overloading the chair beyond the specified maximum patient weight.
- Use in operating theatres.
- Use as a surgical chair or operating table.
- Use as a work chair.
- Use as a spare hospital bed or spare bed.
- Operation of the chair by patients.
- Inappropriate actuation of electrical functions and uncontrolled positioning.
- Outdoor use.
- Use in wet areas, e.g. of public swimming baths.
- Use as a climbing aid (e.g. as a ladder).
- Use as a plaything, e.g. as gymnastics or sports equipment.
- Pulling on cables to move the chair.
- Disconnecting electrical plug connections by pulling on the cable.
- Cleaning in a car wash.
- Cleaning using a spray lance of a high-pressure cleaner or water jet.

2.4.2 Contra-indicators

No contra-indicators are known.

3 Start-up

How to prepare the chair for use, including the final inspection of functional safety, is described in the chapter on putting the chair into service (see chapter “3.4 Inspection before putting the chair into service and re-assigning it” on page 13).

TIP	It is neither necessary nor intended to employ specially trained and instructed service personnel to put the chair into service.

3.1 Safety information for putting the chair into service

Before putting the chair into service, the user must be instructed in using the chair by reading the Instructions for Use in detail beforehand. Furthermore, the potential dangers that may still occur in spite of operating the chair appropriately must be pointed out in detail.

Obligation of the operator – Instruction

- The operator must observe the applicable national requirements and legal provisions.
- The operator must ensure that the user is instructed before using the chair.
- The instruction may be performed by an authorised person of an authorised specialised dealer or directly by the manufacturer.

TIP	If the person authorised by the operator, e.g. the person responsible for the medical device, has been instructed by an authorised person of an authorised specialised dealer or by the manufacturer, we would like to point out that we will authorise the person responsible for the medical device of the operator (within the scope of its intended purpose) for the instruction of the chair based on their training, experience and expertise.

- The operator must ensure that the Instructions for Use have been read completely and understood by the users. The operator must notify the users about the storage place for the Instructions for Use and ensure they can be accessed at any time.
- The operator must ensure that substitute staff are also instructed sufficiently in the operation of the chair.
- The operator must ensure that the chair is operated only by instructed users.

TIP	**Electrical inspection before putting the chair into service:** It is not necessary to subject the chair to another electrical inspection before putting it into service because the chair has been inspected for electrical safety at the factory in accordance with EN 60601 (test report in Instructions for Use) and left our factory in perfect condition. The applicable national requirements and legal provisions must be observed in other countries, outside Germany or the EU. Any additional requirements specified by the operator for putting the chair into service must always be observed. In individual cases, another electrical inspection may have to be carried out and documented in accordance with IEC 62353 (see Service Instructions).

DANGER	**Danger of suffocation due to packaging material.**
⚠	Packaging materials are not playthings and must be kept away from babies and small children. In particular, never allow them to pull the plastic bags over their head or crawl inside.

3.2 Installation conditions

The chair is approved only for operation within buildings and under normal ambient conditions or for use in dry rooms.
The following ambient conditions must be observed at the place of use. See chapter “9.5 Environmental conditions” on page 41.

3.2.1 Prerequisites at the place of use

An appropriate mains supply with an earth conductor and, if necessary, a potential equalisation connection is required at the place of use for the operation of the chair. The chair must always be connected to the potential equalisation, provided it is available and the building’s electrical system permits it (see chapter “4.7 Potential equalisation pin”). The power plug must always be accessible after putting the chair into service.

3.2.2 Scope of delivery

Configuration options

There are basically two different versions of the ATMOS Chairs. They vary in terms of the way the height is adjusted.
The height is adjusted either hydraulically (ATMOS Chair Comfort) or electrically (ATMOS Chair Professional).

TIP	A version equipped with hydraulic height adjustment can never be combined with electrical backrest adjustment or synchronous electrical adjustment of the backrest and leg rest or even separate electrical adjustment of the backrest and leg rest. The top part is always adjusted manually by means of a blockable gas spring. The leg rest may be adjusted synchronously with the backrest, depending on the version. The version with hydraulic height adjustment can also not be combined with a movable bottom part.

For the versions with electrical height adjustment, a distinction is made between manual and electrical backrest adjustment. The leg rest may be adjusted synchronously with the backrest, depending on the version.

All top parts with an electric drive can be combined with hand switches in the backrest.

Furthermore, all versions with electrical height adjustment can be combined with a movable bottom part.

Each ATMOS Chair can be equipped with a rotatable seating surface.

There are therefore numerous configuration options for an ATMOS Chair.

The chair can be equipped with different equipment variants.

ATMOS Chair	Comfort Basic	Comfort Sync	Professional Basic	Professional Electrical	Professional Mobile	Professional Complete
Height adjustment	Hydraulic		Electrical			
Adjustable backrest	Manual		Manual	Electrical	Manual	Electrical
Foot support	Fixed	Synchronous with backrest	Synchronous with backrest			
Mobility function	–		–		✓	

3.3 Packaging

TIP	Visually inspect the outer packaging directly after delivery and before unpacking. Note down any major obvious damage in writing directly on the delivery note of the forwarding agent [A] [B]. Any subsequent complaints will be made easier by immediately taking clear, informative photos, possibly while the delivery driver is still present.

3.3.1 Removing the packaging

Personnel requirements

- 1 user

Tools and auxiliary equipment required

☞ Scissors

Procedure

1. Cut through the tensioning straps with a pair of scissors and then remove them.
2. Pull off the lid of the cardboard box and outer packaging and the protective film upwards.

NOTICE	Do not cut open the packaging with a knife or a long blade. The upholstery material or other parts could become damaged.

3.3.2 Removing the transport pallet

Personnel requirements

- 2 users

Tools and auxiliary equipment required

☞ Utility knife

Procedure

1. Remove the instructions and cardboard box with the headrest.
2. Take out the instructions with electrical inspection.
3. Place the power plug with power cable and foot switch on the seat cushion.
4. Cut into the corners of the cardboard box and fold them down.
5. Lock the top part if necessary. Lift the chair carefully off the transport pallet. To do so, grip the seat frame on the left and right side with both hands.
6. Remove the headrest from the cardboard box and attach it.

3.3.3 Disposing of the packaging material

The packaging material must be disposed of appropriately, separated by material group, in accordance with applicable national regulations. Contact your operator, your local communities, disposal companies or your local ATMOS contact in the event of queries.

3.4 Inspection before putting the chair into service and re-assigning it

The chair must be cleaned and disinfected after finishing the work to put it into service and each time before re-assigning it to a new patient (see chapter “6 Cleaning and disinfection” on page 29).

CAUTION	Risk of infection due to a contaminated chair.
⚠	The chair must be cleaned and then disinfected before it is put into service for the first time. This also applies before each use (re-assignment to another patient).

A function check of the chair must be performed immediately after cleaning and disinfection and before it is used.

WARNING	Risk of injury to patient, user and third parties.
⚠	After putting the chair into service and after each patient, the chair must be checked to ensure that it is safe to operate. It must be ensured that the chair can be used as intended without endangering the patient, user, or third parties.

If the chair is put into service for the first time or after re-assigning it to a new patient, the same function check must take place as when it is put back into service after storage (see chapter 8.3 Kontrolle vor Wiederinbetriebnahme).

- ☞ Inspect the overall condition of the chair for soiling, wear and damage, completeness and legibility of the stickers, symbols and notices, and, if necessary, clean it in accordance with the specifications of the manufacturer or operator or, if necessary, repair it.
- ☞ Visually inspect the power cable and plug, foot switch and all other electrical cables and plug connectors for breakage, orderly installation (e.g. strain relief), clamping or friction points, etc. and repair them if necessary (if present).
- ☞ Check the function of the electrical adjustment devices and the control system. All electrical adjustment drives must be actuated once to their end positions. Pay particular attention to changes in operating behaviour, unusual noises, speed, smooth operation, odours, and excessive temperature, and repair as necessary (if present).
- ☞ Check the function of the installed rotation lock (locked and free-rotation positions) and repair it if necessary.
- ☞ Check the function of the installed headrest and repair it if necessary.
- ☞ Check the function of the roller mechanism of the mobile base and repair it if necessary (if present).
- ☞ Check the function of the manual backrest and synchronous adjustment mechanism with a gas spring and repair it if necessary (if present).
- ☞ Check the function of the hydraulic height adjustment and repair it if necessary (if present).

Any defects or damage found must be rectified immediately.
The chair must not be used until the defects or damage have been rectified.

WARNING	Risk of injury due to a defective chair.
	The chair must **not** be operated in a defective or faulty condition in which it could endanger the patient, user or a third party. A defective or faulty chair must be marked clearly with “**DEFECTIVE**”. The chair must be marked in such a manner that the defective condition can be identified clearly by anyone. Inform the operator so that a thorough inspection can be carried out by qualified service personnel.

4 Operation

The functions of the chair and its performance features are introduced in the chapter “Operation”.

Prerequisites for operation

The chair may only be operated and used as intended and in accordance with generally accepted rules of technology and the national occupational safety and accident prevention regulations applicable at the place of use.
In Germany, the regulations of the Medical Devices Act (MPG), the Medical Devices Operator Ordinance (MPBetreibV) and the regulations issued thereunder must be observed.
The following points must be strictly observed to ensure safe operation:

- Before using the chair, the user must familiarise themselves with the contents of these instructions and observe the safety information on the individual hazards.
- The chair must first be cleaned and disinfected before being put into service and before each subsequent use (re-assignment to a different patient) (see chapter 6 Reinigung und Desinfektion). A function check must then take place.
- The chair does not have an EMERGENCY-STOP control unit. Constant access to the power plug must therefore be ensured to remove the chair from service in an emergency by pulling the power plug.
- Any mechanical strain on the power cable or plug must be avoided. Therefore, never squeeze or clamp the power cable. Immediately conduct a visual inspection each time after subjecting the power cable or plug to mechanical strain.
- Tighten all locking screws, release levers and clamping screws etc., also on the accessories, before use.
- It does not make sense for the manufacturer to specify the intervals globally due to the very different types of strain and operating conditions and frequencies at the place of use. Due to the risk assessment, the operator must define the inspection deadline for the periodic test.

4.1 Safety information for operation

Make sure no limbs of the patient, user and other persons, in particular playing children, are between the top and bottom part or between the backrest or armrest(s) or the leg part and the floor, because they could become trapped and injured when adjusting the chair. Pets must always be kept away from the chair and no other objects must be stored under the chair. Make sure the chair does not become caught on walls or furniture.

DANGER	Risk of injury due to unintentional movements of the chair.
⚠	The chair is not intended to be used by children or disabled persons. In these cases, always make sure the operation lock is activated as long as no trained user is there (see chapter 4.5 Bediensperre aktivieren/deaktivieren).

The chair may only be occupied by one person at a time.
The maximum patient weight must not be exceeded and must be distributed evenly on the seating surface.
Do not sit or lean on the backrest upholstery, leg upholstery, arm support or foot support.

CAUTION	Risk of falling or injury due to high sitting position.
⚠	To avoid or reduce the number of injuries due to falling, we recommend moving the chair into the lowest position (except when carrying out care measures on the patient). This always applies when manoeuvring the chair (see chapter 4.15 Manövrieren) and in particular when patients sit down or stand up (see chapter 4.16 Hinsetzen und Aufstehen der Patienten).

When operating other devices equipped with cables, hoses or similar on or nearby the chair, make sure these lines cannot be jammed in the movable parts of the chair or damaged in any other way.

WARNING	Risk of injury due to using unsuitable accessories.
⚠	Only original ATMOS accessories may be used. The attachment of accessories (e.g. restraint straps) from other manufacturers is the responsibility of the operator and is subject to their due diligence.

4.2 Set-up

4.2.1 ATMOS Chair Comfort

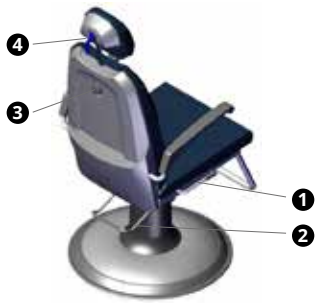
Front view

Basic

Sync

❶ Headrest
❷ Backrest
❸ Armrest
❹ Backrest release lever
❺ Equipotential bonding connection
❻ Base
❼ Foot support
❽ Leg rest (sync variant)
❾ Seating surface

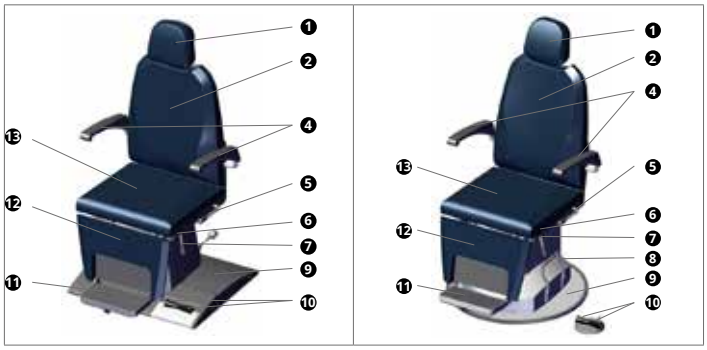
Rear view



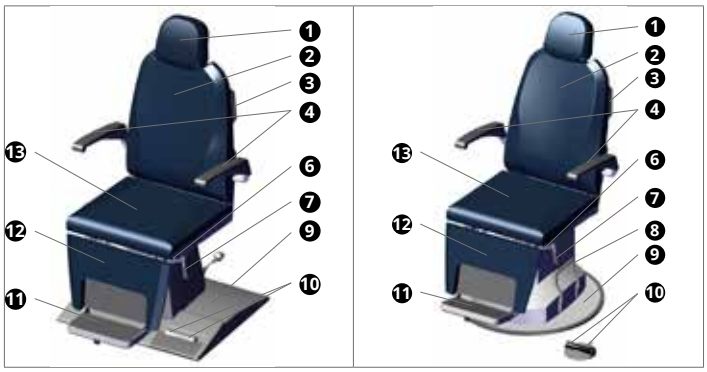
1. Backrest release lever
2. Seat height pump lever
3. Headrest locking screw (height)
4. Headrest locking screw (angle)

4.2.2 ATMOS Chair Professional

Front view



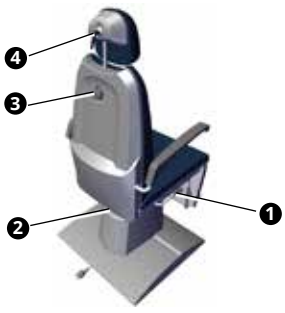
Basic Mobile



Electrical Complete

1. Headrest
2. Backrest
3. Control panel (Electrical/ Complete versions)
4. Armrest
5. Backrest release lever (Basic/Mobile versions)
6. Equipotential bonding connection
7. Release lever for top section of chair
8. Roller foot pedal (Mobile/ Complete versions)
9. Base
10. Foot switch
11. Foot support
12. Leg rest
13. Seating surface

Rear view



1. Control panel (Electrical/Complete versions)
2. Handle for turning seating surface (optional)
3. Release lever for top section of chair
4. Power cable
5. Headrest locking screw (height)
6. Headrest locking screw (angle)

4.3 Basic position

The chair must be put into its basic position whenever patients sit down in the chair or want to stand up from it and possibly before manoeuvring it.

- Move the height of the seat to the very bottom (see chapter “4.10 Position adjustment” on page 22).
- Raise the backrest completely (see chapter “4.10.2 Backrest and synchronous adjustment” on page 22).
- Swing down the arm supports (see chapter “4.8 Armrests” on page 20).
- Lock the top part (see chapter “4.11 Locking the top part” on page 23).
- Swing down the leg part to the very bottom if necessary (see chapter “4.10.2 Backrest and synchronous adjustment” on page 22).
- Fold in the foot support completely if necessary (see chapter “4.14 Setting the foot support” on page 25).
- Bring the rotatable seating surface into mid position if necessary (see chapter “4.13 Rotatable seating surface (optional)” on page 25).
- Retract the roller device on the movable bottom part if necessary (see chapter “4.15 Manoeuvring” on page 26).

Basic position (hydraulic)	Basic position (electrical)

4.4 Setting the shock position

Patients can be put completely into shock position, regardless of the seat height.

- The seat height remains unchanged in the process (see chapter “4.10 Position adjustment” on page 22).
- Bring the backrest into flat position (see chapter “4.10.2 Backrest and synchronous adjustment” on page 22).
- Swing down the arm supports (see chapter “4.8 Armrests” on page 20).
- Swing up the leg part to the very top if necessary (see chapter “4.10.2 Backrest and synchronous adjustment” on page 22).
- Fold in the foot support completely if necessary (see chapter “4.14 Setting the foot support” on page 25).
- Bring the rotatable seating surface into mid position if necessary (see chapter “4.13 Rotatable seating surface (optional)” on page 25).

	Flat position (hydraulic)
	Flat position (electrical)

4.5 Activating / deactivating the operation lock

This section describes how to activate or deactivate the operation lock (electrical versions only). To activate or deactivate the operation lock of chairs delivered up to September 2015 (software version 1.0 and 1.1), refer to the Service Instructions. Moving the chair accidentally or unintentionally is prevented by activating the operation lock.

TIP	The chair remains in its previous operating condition after pulling out the power plug and then plugging it back in. This means, for example, that if the operation lock is activated before disconnecting the mains supply, the operation lock will remain activated after restoring the mains supply. The control system remembers the current operating condition.

Activating the operation lock

1. To activate the operation lock, tap the button on the foot switch (1) for lowering the seat (2) three times within two seconds or, if applicable, press the two buttons on the hand switch (3) for adjusting the seat height (up (4) – down (5)) simultaneously for approximately five seconds.
2. A short tone indicates the activation of the operation lock.

Deactivating the operation lock

1. To deactivate the operation lock, tap the button on the foot switch (1) for lowering the seat (2) three times within two seconds or, if applicable, press the two buttons on the hand switch (3) for adjusting the seat height (up (4) – down (5)) simultaneously for approximately five seconds.
2. A short tone indicates the deactivation of the operation lock.

Activating / deactivating the operation lock on the foot switch

Activating / deactivating the operation lock on the hand switch

Pressing the buttons seat height – up
and
seat height – down simultaneously

4.6 Power-on time

The maximum power-on time of the electrical chair functions is specified on the type plate and in the Technical Data.

NOTE	10% 2 min. / 18 min. means that any electrical adjustment may be operated no more than two minutes continuously and must be followed by a break of 18 minutes (overheating protection).

TIP	The chair is equipped with an automatically resetting thermal protective device, which prevents overloading of the control system or adjustment drives. The chair is automatically switched off in the event of overloading. If the maximum power-on time of two minutes is exceeded several times or for a prolonged time, the electrical adjustment functions are temporarily unavailable. The chair can be adjusted again after cooling down sufficiently.

4.7 Potential equalisation pin

The potential equalisation cable is used to connect the connection pin (1) on the chair to the connection on the wall strip. To do so, push the plug completely onto the respective pin, overcoming the noticeable resistance. To remove the plug, simply pull it.

☞ This must be fitted if the chair is to be used in operating theatres.

	Potential equalisation pin

4.8 Armrests

Folding up and lowering

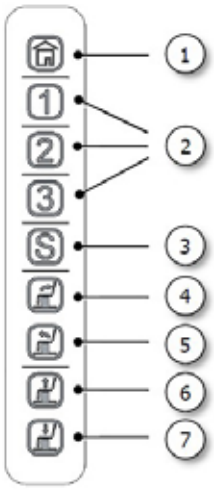
Guide the armrest (1) with your hand until the end position (when folding up and lowering) is reached. Make sure you hold the armrest tight and do not let it fall freely when lowering it. The arm supports consist of integral foam.

TIP	The left and right armrest can be adjusted separately.

4.9 Hand control on the backrest

Overview of the hand control

Any adjustment stops if more than one button is pressed simultaneously.



❶	**Home button** Press and hold the button to return the chair to its basic position. Releasing the button stops movement (“dead man’s switch”).
❷	**Memory positions** Press the button to move the chair to a programmed position.
❸	**Memory button** See instructions below.
❹	Backrest down
❺	Backrest up
❻	Seat height up
❼	Seat height down

Programming a memory position

1. Move the chair to the desired position.
2. Press the memory button ❸.

3. Within two seconds, press the button for memory position 1, 2 or 3 ❷. An audible signal confirms that the position has been stored.
4. Repeat the procedure to overwrite a previously stored position.

4.10 Position adjustment

4.10.1 Height adjustment

NOTE	The patient's forearms must be in a normal position on the armrests.

Hydraulic versions – Adjusting the seat height

To adjust the seat height, operate the pump lever (1) with your foot until the desired position of the chair top section (2) is reached. To lower the chair top section again, fully depress and hold the pump lever until the desired seat height is reached.

1. Pump lever
2. Chair top section

Height adjustment – Hydraulic versions (ATMOS Chair Comfort)

Electrical versions – Adjusting the seat height

- The drives keep on running as long as the buttons are pressed.
- If more than one button is pressed simultaneously, all adjustment movements stop.

	Foot switch 1. Seat height (+) 2. Seat height (–)
❸ ❹	Hand control on the backrest 3. Seat height – Up 4. Seat height – Down

4.10.2 Backrest and synchronous adjustment

NOTE	On versions with synchronous adjustment, the leg rest is adjusted together with the backrest. The patient's forearms must be in a normal position on the armrests.

Manual versions – Lowering and raising the backrest

The backrest (1) can be lowered and raised gradually by hand as required. To do so, press the release lever (2) and set the backrest as desired. Guide and support the backrest always with the other hand to avoid sudden and unintentional movements. The backrest is automatically fixated again after letting go of the release lever.

	1. Backrest 2. Release lever Back and synchronous adjustment – Manual versions

Electrical versions – Lowering and raising the backrest

- The drives keep on running as long as the buttons are pressed.
- If more than one button is pressed simultaneously, all adjustment movements stop.

	Hand switch on the back (Electrical / Complete) 3. Backrest – Back 4. Backrest – Forwards 1. Seat height – Up 2. Seat height – Down

Backrest and synchronous adjustment – Electrical version

4.11 Locking the top part

NOTE	The patient's forearms must be in a normal position on the armrests.

Hydraulic versions – Turning the top part of the chair

TIP	The top part of the chair of hydraulic versions can always be rotated a full 360°.

To fixate the top part of the chair, pull up the pump lever with the back of your foot. To release the rotary movement, tap the pump lever briefly with your foot.

Electrical versions – Turning the top part of the chair

TIP	The top part of the chair of versions with electrical height adjustment and manual backrest and synchronous adjustment (without hand switch on the back) can always be rotated a full 360°. The rotation of all other electrical versions is limited by limit stops.

To release the rotary movement of the top part of the chair (1), the release lever (2) must be pressed down. The top part of the chair is fixated again by pulling the release lever fully upwards.

4.12 Headrest

Headrest – Setting the inclination

The inclination of the headrest upholstery (1) can be set gradually. To do so, release the release lever (2) and set the upholstery as desired. Then retighten the release lever.

Headrest – Setting the height

The height of the entire headrest can be set gradually. To do so, release the locking screw (3) and pull the headrest out or push it in. Then retighten the locking screw.

TIP
The position of the release lever can be changed by pulling it out. The release lever automatically re-engages after letting go of it.

1. Headrest upholstery
2. Release lever (inclination)
3. Locking screw (height)

Headrest

4.13 Rotatable seating surface (optional)

90° rotation

The optional rotatable seating surface (REF 535.5600.0) can be turned 90° clockwise or anti-clockwise from the mid position as required on all ATMOS Chair Professional variants. To do so, bring the seating surface into the desired position using one of the two handles.
The seating surface engages noticeably in the two end positions as well as in mid position.

4.14 Setting the foot support

Folding out and in

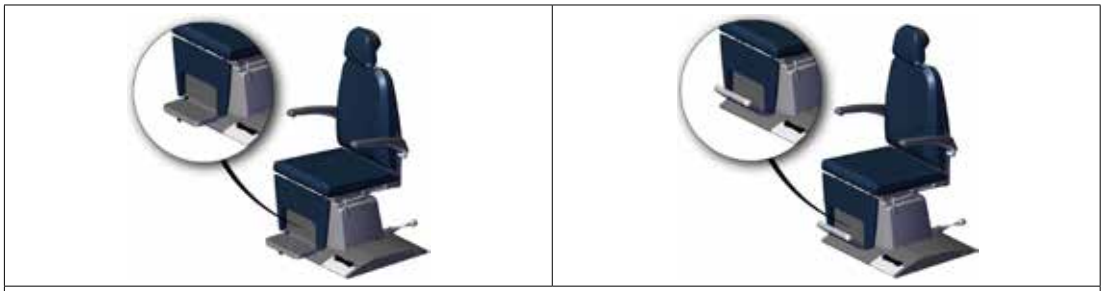
The foot support (1) can be manually folded out and in as required. It is used to safely set down the feet of the patient during treatment. To do so, fold the foot support out and in.

The calf board (2) provides additional support.

CAUTION ⚠	Risk of falling or stumbling when the foot support is folded out. The foot support must be folded in when patients sit down or stand up. Only in this way can it be ensured that patients can step as close as possible to the chair with their heels. This gives disabled patients in particular a safe feeling when sitting down or standing up. Furthermore, the mechanics of the foot support are not capable of withstanding such loads over the long term.

Foot support with step plate

The sealed surface makes it easier to clean it.



Foot support with step plate – Folding out and in

4.15 Manoeuvring

Mobile| Complete variants

This section describes how to extend or retract the roller device (movable bottom part only).

The roller device is used only to manoeuvre (no transport over long distances) the unoccupied chair, e.g. to clean the floor, and never to transport patients.

CAUTION ⚠	Risk of falling or accidents due to the disengaged roller device. Make sure the chair cannot start to move on its own. Do not by any means move the chair as long as a patient is on it.

The chair must be moved only on a stable surface.

NOTE	The mechanics of the roller device are not capable of withstanding the load involved in extending and manoeuvring it whilst carrying a patient.

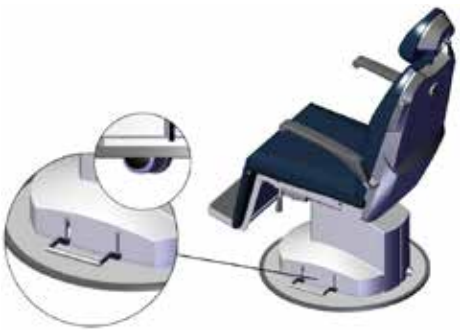
The chair must be brought into its basic position before moving it.

- Always set the foot switch down on the seat upholstery. The cable of the foot switch must not touch the floor or drag over it, as it is not designed to withstand being run over.
  The foot switch cable may have to be wound up or hung up high.
  Running over or pinching the foot switch cable will damage it and may result in malfunctions.
- Pull the power plug and always lay it down on the seat upholstery together with the power cable.

WARNING ⚠	Risk of electric shock / fire and operational failure. Make sure the power cable cannot be stretched excessively, run over or damaged in any other way. The power cable must be set down on the seat upholstery and must not touch the floor or drag over it, as it is not designed to withstand being run over. The power cable may have to be wound up or hung up high. Running over or pinching the power cable will damage it and may result in electrical hazards and malfunctions.

- The armrests must be folded down in normal position.
- When moving the chair on slopes such as ramps, a second user must additionally secure the chair at the front due to its weight.

The chair is equipped with four disengageable castors.
The roller device must be retracted each time after stopping the chair to fixate the chair on the floor.



Manoeuvring

1. Extend the roller device
2. Depress the foot pedal
3. (Foot pedal horizontal).
4. Retract the roller device
5. Pull up the foot pedal
6. (Foot pedal vertical).

4.16 Patients sitting down and standing up

Ensure that the patient sits in the middle of the seating surface. The patient must not be allowed to sit on the armrest, backrest or leg rest. Do not allow patients to stand with their full weight on the foot support.

The chair must first be put into its basic position before patients want to sit down in the chair or stand up from it.

The top part of the chair must be locked, depending on the rotation lock installed.

CAUTION ⚠	Risk of falling or accidents due to an insufficiently braked top part of the chair. When patients sit down or stand up, the top part of the chair must be locked in place, because only in this way can unintentional turning of the top part of the chair be safely avoided when sitting down or standing up. Serious falls can be caused if the unbraked top part of the chair turns.

When patients sit down or stand up, it may be essential for the castors of the roller device (movable bottom part only) to be retracted to fixate the chair to the floor.

CAUTION ⚠	Risk of falling or accidents due to an insufficiently braked chair. If the chair is currently not being moved, the castors of the roller device must always be retracted, because patients may use the chair to support themselves when sitting down or standing up. Serious falls can be caused by the unbraked chair rolling away.

- Fold in the foot support (only foot support with step plate (folding) and foot support synchronously with step plate (folding)) if necessary.

CAUTION ⚠	Risk of falling or stumbling when the foot support is folded out. The foot support must be folded in when patients sit down or stand up. Only in this way can it be ensured that patients can step as close as possible to the chair with their heels. This gives disabled patients in particular a safe feeling when sitting down or standing up. The mechanics of the foot support are not capable of withstanding the load involved when patients sit down and stand up on it.

- Fold up the arm rest completely if patients want to sit down or stand up from the side.
- Assist patients if necessary.

5 Equipment variants

Each ATMOS Chair can be equipped with different equipment variants.

TIP	It may be very easy or quite complicated to retrofit the chair (after the initial delivery), depending on the variant.

5.1 Upholstery material

The upholstery material allows you to customize the chair's look.

You can find the available colours from the current colour collection.

5.2 Synchronous foot support with step plate (folding)

When moving the backrest, the step plate moves synchronously with the current position of the backrest. To use the synchronous foot support with folding step plate.

☞ For all variants except Comfort Basic.

5.3 Rotatable seating surface

The optional rotatable seating surface can be turned 90° to the right or left from the mid position. To do so, bring the seating surface into the desired position using one of the two handles. The seating surface engages noticeably in the two end positions as well as in mid position.

☞ For all Professional variants.

6 Cleaning and disinfection

NOTE

The manufacturer's specifications regarding suitable cleaning agents and disinfectants do not exempt the user from conducting their own inspections and tests, as local conditions (e.g. water hardness) may vary considerably. No legally binding assurance of certain properties can be derived from this.

Damage to the surface coating and upholstery material for which ATMOS is not liable may arise if unsuitable cleaning agents and disinfectants are used or in the event of an incorrect mixing ratio or insufficient care of the chair. The chair must be cleaned and subsequently disinfected at regular intervals.

The following times must usually be observed:

- Whenever necessary during treatment
- Each time after changing to another patient
- According to the guidelines of the respective hygiene plan of the operator

CLEANING

We recommend cleaning the chair with a damp cloth (e.g. microfibre cloth), depending on the degree of soiling. Any oil, grease, sweat or urine must be removed immediately to prevent it from penetrating the surface. Any stains, particularly those caused by ballpoint pens, coffee, blood or denim, should also be removed immediately, as they may not be removable without residue later.

Use warm, mild soapy water for cleaning.

A soft brush can also be used for stubborn soiling or stains.

Only clean the chair with a damp cloth. Do not use excessive amounts of water when cleaning. Cleaning using excessive amounts of water poses the risk of saturating the upholstery material and hence damaging its surface. This may result in embrittlement of the material over time.

Do not use any organic solvents (such as petrol, benzene, turpentine, toluene, xylene or acetone), chlorides, polishes, chemical cleaning agents or wax polishes to clean the upholstery. Do not use any agents that contain oil, grease or alcohol. These products may alter the protective layer of the upholstery and make it permeable.

The upholstery materials are also not resistant to chemical cleaning. Under no circumstances should scouring pads or cleaning agents containing abrasive particles, abrasives or other dulling particles be used to clean the metal parts.

Use warm, mild soapy water or, if necessary, commercially available plastic cleaners to clean the plastic parts.

Use commercially available plastic cleaners to clean the electrical components (cables).

DISINFECTION

The ATMOS Chair is suitable for wipe disinfection with surface disinfectant.

The disinfectants specified in the following must be applied in their intended concentration for disinfection. The dilution or mixing ratios recommended by the manufacturers in the respective instructions must be used.

Important: Do not allow the disinfectant to remain on the upholstery for longer than the prescribed contact time. Disinfectants are aggressive and will alter the surface. This

results in damage and hence embrittlement (e.g. small cracks, swelling due to moisture absorption) of the material.

Avoid switching disinfectants, particularly when using an agent over a long period of time, because otherwise damage to the product cannot be ruled out. The regular use of products containing alcohol or solvents may have a negative effect on the painted surface and cause long-term material embrittlement. The material will sustain cracks and the surface will absorb moisture.

A warranty for limited resistance to disinfectants is ruled out because ATMOS cannot take any influence on the manufacturing process or the raw materials used in disinfectant production.

Recommended disinfectants in combination with the "compact" upholstery material	
Akzo Nobel	Sodium hypochlorite
Bode Chemie GmbH	Bacillol AF | Bacillol 30 Sensitive Foam + Tissues | Cutasept | Microbac forte
Braun	Melisepton Foam Pure| Softasept N | Melisepton | Helipur | Melsitt | Melsept
Desomed	Desomed Rapid
Dr. Schumacher	Decosept AF
Ecolab	Incidin foam | Incidin Plus | Incidin perfekt | Incidin liquid
Favodent Karl Huber	Flora quick
Henkel	Incidur-Spray
Lysoform	Fugaten Spray
Orochemie	B45
Peppler	Micro clean | Pepp clean
Reckitt Benckiser	Sagrotan med
Ruck	Spray disinfection
Schülke & Mayr	Kodan Tinktur Forte | Esemfix | Octenisept | Mikrozid AF
Unident	Unisepta foam

CARE

With the ATMOS Chair, you have selected a product with a high-quality synthetic leather covering. It is phthalate-free. Due to the omission of phthalates (softening agents), the material is less resistant to incorrect cleaning or disinfection than you are accustomed to with previous chair models. That is why additional treatment of the upholstery material with a synthetic leather care product is recommended.

7 Troubleshooting

The troubleshooting chapter contains information on potential malfunctions that can be rectified by users themselves.

TIP	It is neither necessary nor intended to employ specially trained and instructed service personnel for troubleshooting.

Safety information for troubleshooting (electrical versions only)

DANGER	Risk of death due to electric shock
⚠	Users themselves must by no means attempt to rectify malfunctions to electrical components.

The chair must be disconnected from the mains supply in the event of a defect. Mark the chair as defective and remove it from service. It may be reused only after being repaired properly by specialised personnel.

General troubleshooting information

TIP	Check whether the chair is connected to the mains supply each time before troubleshooting (power plug in a live socket). Voltage test for everyone. Conduct a simple test using another functional electric device on the respective socket. If the device works when switched on, this means the mains voltage is present. If the device does not work when switched on, this means no mains voltage is present.

A chair connected to the mains with a deactivated operation lock is ready for operation and can be moved by pressing buttons.

7.1 Control system RESET

The control system RESET (electrical versions only) is described here.

TIP	Inspection of the operation lock. If the ATMOS Chair can no longer be operated, first check the activation of the operation lock.

Mains voltage fluctuations or similar issues may cause the chair to stop responding and signal tone sounds. In this case, “RESET” the control system.

Procedure with foot switch

1. On the foot switch, press the button for seat height up (+) and hold for about five seconds until a pulsing tone sounds.
2. Keep the button pressed until the tone stops.
3. The “RESET” has been performed. The chair is ready for operation again.

	RESETTING with the foot switch Press seat height up (+)

Procedure with hand switch

1. Press the buttons of the hand switch on the backrest to move the backrest backwards (3) and the seat height down (4) simultaneously and hold for five seconds until a pulsing tone sounds.
2. Keep the buttons pressed until the tone stops.
3. The “RESET” has been performed. The chair is ready for operation again.

	RESETTING with the hand switch (3) backrest adjustment – backwards (4) seat height – down

7.2 Error table

The following table provides help when rectifying malfunctions.

Electrical malfunction (“Professional” versions only)		
Problem	**Possible causes**	**Remedy**
Chair completely without electrical function.	Power cable not plugged in.	Plug in the power cable.
	Socket without mains voltage.	Check the plug connection of the power plug. Check the socket or fuse box.
	The power plug is not plugged in correctly.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Foot switch, hand switch, power cable or control system defective.	Replace the foot switch, hand switch, power cable or control system if necessary.
Green mains control LED on the control system does not light up. ☞ May be performed only by service personnel, because the cover of the bottom part has to be removed for this purpose.	Socket without mains voltage.	Use a socket in good working order.
	Power cable or plug defective.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Control system defective.	Replace the power cable or control system if necessary.

Foot and/or hand switch without function.	Operation lock activated.	Deactivate the operation lock. (See chapter “4.5 Activating / deactivating the operation lock”) Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Foot and/or hand switch defective.	Replace the foot and/or hand switch.
No operation possible even though the power supply is in perfect working order.	Control system has switched off due to over-heating.	Max. power-on time: OP: Observe 2 / 18 min (see chapter “4.6 Power-on time”) Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Control system defective.	Replace the control system if necessary.
The adjustment drive starts up only briefly, but then comes to a standstill.	Adjustment drive overload-ed.	Remove the overload. Repeat the test.
Electrical malfunction (“Professional” versions only)		
Problem	**Possible causes**	**Remedy**
When any button on the foot or hand switch is pressed, the control system does not respond and a pulsing tone can be heard.	Mains voltage fluctuations or similar issues will result in total failure of the control system.	Perform a “RESET” the control system; see chapter “7.1 Control system RESET”.
The potential equalisation does not work properly.	Potential equalisation pin damaged or not present.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel. Replace the potential equalisation pin if neces-sary.
The rotation lock of the top part does not work properly. ☞ Electrical versions only	Brake device set incorrectly.	Have the brake device set. Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Brake linkage bent or defective.	Replace the brake device and/or brake linkage if necessary.

The rotation lock of the top part does not work properly. ☞ Hydraulic versions only	Clamp on piston rod of hydraulic pump defective.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel. Replace the hydraulic pump if necessary.
Roller device of the movable bottom part is not working properly. ☞ Movable bottom part only	Roller device bent or defective.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Castor(s) defective.	Replace the roller device and/or castor(s) if necessary.
Manual backrest or synchronous adjustment is not working properly. ☞ Manual backrest or synchronous adjustment only	Gas spring is not unblocked.	Have the Bowden cable set.
	Gas spring cannot be blocked.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel.
	Gas spring does not have enough power (oil leak).	Replace the gas spring if necessary.
Height adjustment by means of the hydraulic pump is not working properly. ☞ Hydraulic versions only	Insufficient hydraulic oil quantity.	There is no provision for refilling with hydraulic oil.
	Hydraulic pump defective.	Inform the operator so that a thorough inspection can be carried out by qualified service personnel. Replace the hydraulic pump if necessary.

8 Removing the chair from service

8.1 Service life

The service life of the ATMOS Chair is approximately 7 to 10 years depending on the strain and operating conditions and frequency and provided the chair is used as intended and the safety-related inspections (STK) and necessary maintenance measures are observed.

8.2 Storage and transport

NOTICE	The ATMOS chair must be moved only in the basic position and stored in a carefully secured manner (see chapter “4.3 Basic position” and chapter “4.10 Locking the top part”). The mechanics of the roller device cannot cope with the strain of transport over long distances (see chapter “4.14 Manoeuvring”).
TIP	The chair must be cleaned and disinfected before storing it (see chapter “6 Cleaning and disinfection”). Store the chair in a dry, well-ventilated room, protected from soiling. Furthermore, the chair must be protected preferably against direct sunlight or UV radiation, if necessary with a light-proof sheet.

8.3 Inspection before putting the chair back into service

The chair must be cleaned and disinfected before putting it back into service (see chapter “6 Cleaning and disinfection”).

CAUTION	**Risk of infection due to contaminated chair.**
⚠	The chair must be cleaned and then disinfected after storage before putting it back into service.

A function check of the chair must be performed immediately after cleaning and disinfection and before it is used for another patient.

WARNING	**Risk of injury to patient, user and third parties.**
⚠	After putting the chair back into service, it must be checked to ensure that it is safe to operate. It must be ensured that the chair can be used as intended without endangering the patient, user, or third parties.

If the chair is put back into service after storage, the same function check must be performed as before it was initially put into service (see chapter “3.4 Inspection before putting the chair into service and re-assigning it” on page 13).

- Inspect the overall condition of the chair for soiling, wear and damage, completeness and legibility of the stickers, symbols and notices, and, if necessary, clean it in accordance with the specifications of the manufacturer or operator or, if necessary, repair it.
- Visually inspect the power cable and plug, foot switch and all other electrical cables and plug connectors for breakage, orderly installation (e.g. strain relief), clamping or friction points, etc. and repair them if necessary (if present).
- Check the function of the electrical adjustment devices and the control system. All electrical adjustment drives must be actuated once to their end positions. Pay particular attention to changes in operating behaviour, unusual noises, speed, smooth operation, odours, and excessive temperature, and repair as necessary (if present).
- Check the function of the installed rotation lock (locked and free-rotation positions) and repair it if necessary.
- Check the function of the installed headrest and repair it if necessary.
- Check the function of the roller mechanism of the mobile base and repair it if necessary (if present).
- Check the function of the manual backrest and synchronous adjustment mechanism with a gas spring and repair it if necessary (if present).
- Check the function of the hydraulic height adjustment and repair it if necessary (if present).
- Any defects or damage found must be rectified immediately.
  The chair must not be used until the defects or damage have been rectified.

WARNING	**Risk of injury due to a defective chair.**
⚠	The chair must not be operated in a defective or faulty condition in which it could endanger the patient, user or a third party. A defective or faulty chair must be marked clearly with “DEFECTIVE”. The chair must be marked in such a manner that the defective condition can be identified clearly by anyone. Inform the operator so that a thorough inspection can be carried out by qualified service personnel.

8.4 Disposal

When designing the chair, it was made sure that – whenever possible – no composite materials were used. This design concept allows a high degree of recycling at the end of the service life.

Observe the national disposal regulations!

General disposal instructions

CAUTION	**Risk of infection due to a contaminated chair.**
⚠	The operator must ensure that no components to be disposed of are infectious or contaminated.

If you have any questions, contact your local authority, local waste disposal company, or our service department.

Disposal of electronic components (if present)

When scrapping the chair, dispose of the metal and plastic parts separately and properly.

The symbol on the product indicates that it must not be disposed of as household waste.

- The electrical components used do not contain any prohibited hazardous substances in accordance with the RoHS Directive.
- For environmental reasons, waste electrical and electronic equipment must be disposed of separately in accordance with the European WEEE Directive and the applicable national legislation.
- The products have been designed so that electrical components such as motors, control units, switches and cables can be removed easily and disposed of separately. Alternatively, you can return the electrical components or the entire product to ATMOS free of charge. We will then ensure proper disposal. However, a document confirming that the returned product is an ATMOS product must be enclosed with the shipment (see chapter “9.3 Return delivery / repair order”). A photograph of the type plate, a copy of the delivery note, or similar documentation is sufficient. You can find further information in this respect in our General Terms and Conditions at www.atmosmed.com.

Disposal of batteries (if present)

Pb

- Batteries that are no longer usable must be disposed of properly in accordance with the applicable battery regulations and must never be disposed of with household waste.
- For disposal information, contact your local authority, local waste disposal company, or our service department.

Disposal of gas springs / hydraulic units (if present)

Gas springs and hydraulic units consist primarily of metal and can be recycled after the contained oil has been drained.

Gas springs must be depressurised in accordance with the manufacturer’s specifications prior to disposal or before draining the oil. This information can be obtained from the respective gas spring manufacturer upon request (see type plate or manufacturer's label).

CAUTION

Risk of injury to the eyes or face, danger of injury due to entrapment

Due to the high internal pressure, suitable personal protection measures must be taken (eye and face protection, covering of the degassing openings, etc.) before degassing.

If the gas springs are removed, there is a risk of entrapment when the release mechanism is actuated due to sudden movement of the piston rod.

Environmental protection

The contained oil must be drained and disposed of appropriately prior to disposal.

9 Appendix

9.1 Explanation of symbols

The following symbols are used in these instructions, on the type plate, and on the chair and its components.

	Follow instructions
	Consult Instructions for Use
	Safety information
	This device complies with the relevant requirements of EU regulations.
	Manufacturer: Greiner GmbH
	Distributor: ATMOS MedizinTechnik GmbH & Co. KG
	Date of manufacture
REF	Reference number
UDI	Unique Device Identifier of a medical device
MD	Medical device
SN	Serial number
	Type B applied part
	For indoor use only
	Professional disposal
	Electronic waste
	Maximum patient weight
	Alternating current
	Protection class I

	Environmental protection
	RoHS mark
IPX4	IP type of protection
V in:	Input voltage, frequency
I in: max.	Input current consumption
OP:	Power-on time
Polster/ cushion:	Upholstery colour or design
Q-Con- trol:	Personnel number

9.2 Spare parts ordering

A list of spare parts can be requested if necessary.

NOTICE	To ensure the product functions safely and maintain guarantee claims, only original spare parts must be used.

9.3 Return delivery / repair order

Return deliveries of medical devices, whether used or unused, may have come into contact with infectious agents or hazardous substances and are therefore always regarded as “contaminated return deliveries”. This applies until the sender has verified credibly that they are not infectious or contaminated.

Medical devices must be sent only in packed condition. Ensure that a “Declaration of Hygiene Status” is affixed to the outside of the packaging. The accompanying documents must show that the medical device has been properly disinfected.

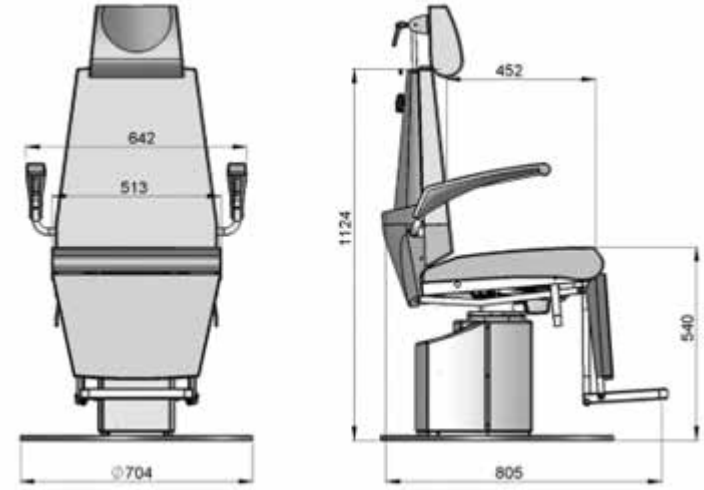
Medical devices must be disinfected before repair. The execution and credible verification of this procedure are the responsibility of the operator or customer.

You can find further information in this respect in our General Terms and Conditions at www.atmosmed.com.

CAUTION	**Risk of infection due to contaminated chair.**
⚠	The sender or operator must ensure that the respective medical devices are neither infectious nor contaminated for all return deliveries or repair orders.

9.4 Technical Data

Dimensions and weights



Dimensions	
Seat width	51 cm
Seat depth	45 cm
Overall depth in basic position depending on the model	70 – 80 cm
Overall width	70 cm
Length of the lying surface in flat position without the leg rest	135 – 145 cm
Length of the lying surface in flat position with the leg rest	194 – 204 cm
Entrance height (hydraulically operated version)	54 cm
Entrance height (electrically operated version)	58 cm
Height adjustment (hydraulically operated version)	20 cm (54 – 74 cm)
Height adjustment (electrically operated version)	30 cm (58 – 88 cm)
Swivel range with 1 electric drive in the upper part	approx. 330°
Swivel range with 2 electric drives in the upper part	approx. 280°
Empty weight of the chair depending on the model (hydraulically operated version)	approx. 55 – 63 kg
Empty weight of the chair depending on the model (electrically operated version)	approx. 90 –109 kg
Maximum patient weight hydraulic	200 kg
Maximum patient weight electric	220 kg
Electrical data	
Protection class I	⏚
Application Part Type B (special protection against electric shock)	
Protection type	IPX4
Control unit [CB6]	
Bus version	OpenBus™
Number of channels depending on version	1 – 3

Mains connection [U in]	110 – 240 V AC , 50/60 Hz
Current consumption [I in]	max. 2 – 4 A
Total current [I out]	max. 8 A
Current per channel [I out]	5.5 – 8 A
OP = duty cycle 1)	10 % max. 2 min / 18 min
Isolation transformer	
Thermal fuse element	
Actuators	
Rated voltage [U in]	24 V DC
Current consumption [I in] depending on version	3.9 – 7 A
1) Duty cycle 10 % max. 2 minutes continuous use followed by 18 minutes not in use. Failure to do so may result in a malfunction.	

9.5 Environmental conditions

Storage or transport temperature [°C]	–10 °C		+50 °C
Operating temperature [°C]	+5 °C		+40 °C
Humidity [rF] (non-condensing)	20 %		90 %
Air pressure [hPa]	700 hPa		1060 hPa
Operation at an estimated height [m]	≤ 2000 m		

Glossary

The following groups of persons and terms are defined in these instructions.

Operator

The operator of a medical device is any natural or legal person who is responsible for the operation of the health facility in which the medical device is operated or used by their employees.

An operator (e.g. clinic, hospital, hospital management, medical practice, medical officer) may be the legal owner of the ATMOS Chair or have the actual material control of the chair. The operator is responsible for the safe operation of this medical device.

User

The user is whoever uses a medical device on the patient.

Users (e.g. medical specialised personnel, nurses, physicians, assistants, care staff) are persons who, due to their training, experience or instruction, are entitled to operate the chair independently or perform work on it or have been instructed in using this chair. Furthermore, they are able to identify potential dangers and evaluate the clinical condition of the patient.

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Patient

Any person on this chair is referred to as a patient.

Service personnel

Service personnel (e.g. service technicians, specially trained staff of a service point, customer service staff of ATMOS) are persons authorised to carry out the work that goes beyond that of the user for maintenance or repairs. They are entitled to carry out the necessary maintenance tasks or repair work independently due to their training, experience or further instruction. They are able to identify and avoid any hazards that may arise during maintenance tasks or repair work.

Healthcare facility

A healthcare facility is any facility, department or institution, including rehabilitation and care facilities, in which medical devices are operated or used by medical staff, persons of the care profession or other persons authorised for this purpose.

11 Notes

ATMOS
MedizinTechnik

ATMOS MedizinTechnik GmbH & Co. KG
Ludwig-Kegel-Str. 16
79853 Lenzkirch / Germany
Phone: +49 7653 689-0
atmos@atmosmed.de

GREINER GmbH
Wettestrasse 1
74385 Pleidelsheim, Germany
Phone: +49 7144 8112-0
info@greiner-gmbh.de