

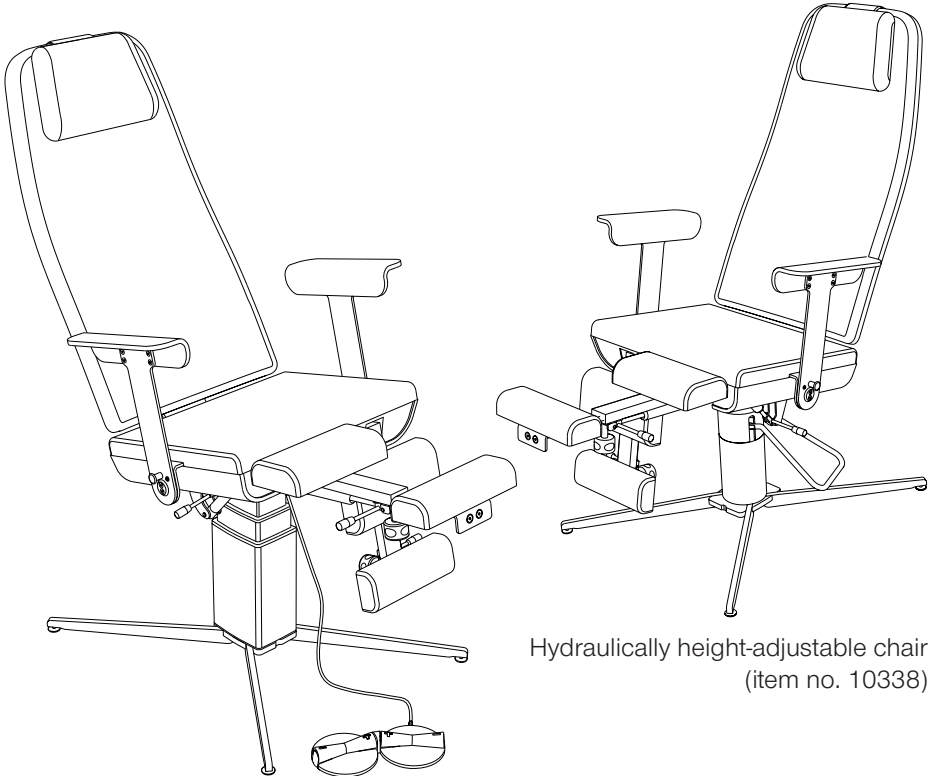


# RUCK®

FÜR FUSS UND PFLEGE

## podiatry chair **SINA**

INSTRUCTIONS FOR USE



Hydraulically height-adjustable chair  
(item no. 10338)

Electrically height-adjustable chair (item no. 10337)



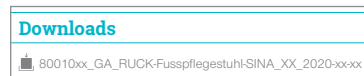


# podiatry chair **SINA**



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- Вы можете загрузить руководства по эксплуатации на других языках кликнув на ссылку или запросив по телефону.
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- 여러 언어로 된 본 사용설명서를 다음 링크에서 다운로드하시거나 전화로 요청하실 수 있습니다.
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- Ezen kezelési útmutató további nyelveken a következő linken keresztül tölthető le, vagy telefonon megkérhető
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1. www.hellmut-ruck.de
2. 10337 or 10338
3. Downloads



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web [www.hellmut-ruck.de](http://www.hellmut-ruck.de) | tel. +49 (0)7082. 944 20 | fax +49 (0)7082. 944 22 22

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Dear customer.

The SINA podiatry chair is the basic model of the RUCK treatment chairs. Solid, functional, comfortable – these were the development goals. The result is a quality product that has many well thought-out design features at a reasonable price.

The SINA podiatry chair is available in two versions. With the SINA hydraulically height-adjustable chair (item no. 10338) an oil pump with foot control provides a treatment height of up to 76 cm. The SINA electrically height-adjustable chair (item no. 10337) works with electromotive height-adjustment to a treatment height of 88 cm. Both have in common the stable star base, variable seat inclination, rotatability and extendible leg rests/footrests.

As a Class 1 medical device, the SINA electrically height-adjustable chair also meets the requirements of podiatry.

These instructions for use are regarded as an integral part of the product and should be kept in the immediate vicinity. Please read these instructions carefully before commissioning the device.

Our podiatry chairs and treatment chairs are manufactured in Germany. They are subject to our permanent quality control. If you are not satisfied in any way or if you have questions, please contact our service department.

We would like to thank you for the trust you have placed in us and hope you enjoy your daily work.

Kind regards, HELLMUT RUCK GmbH



**SINA electrically height-adjustable chair (item no. 10337)**

**Class I medical device**



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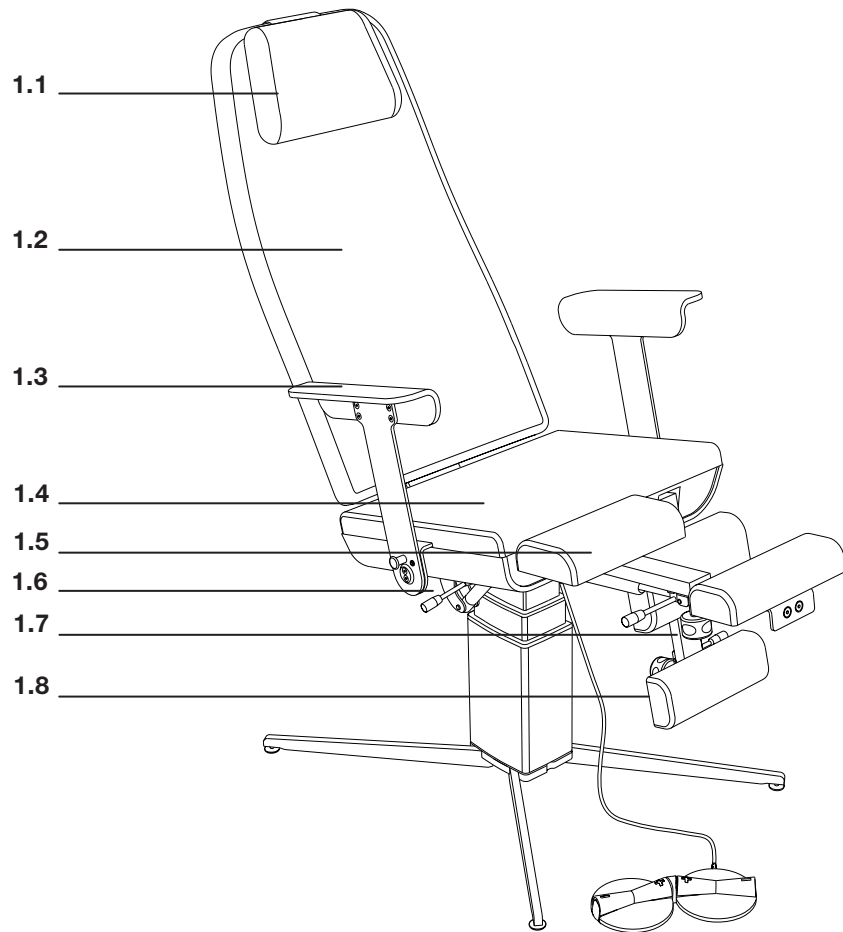


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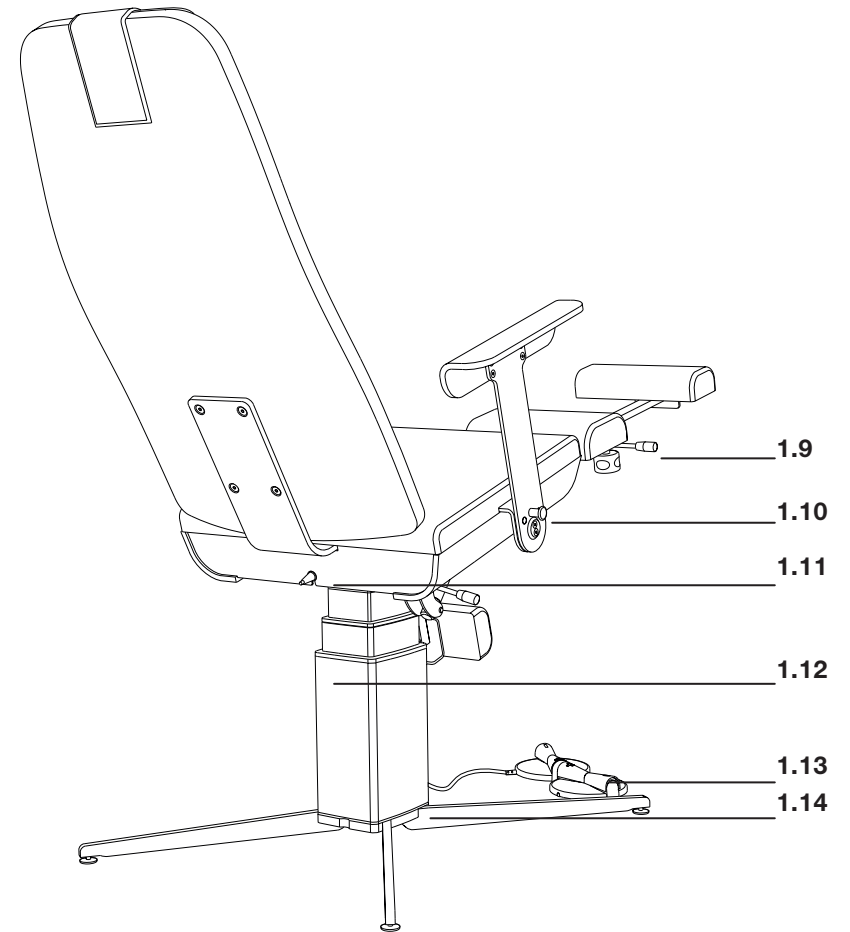
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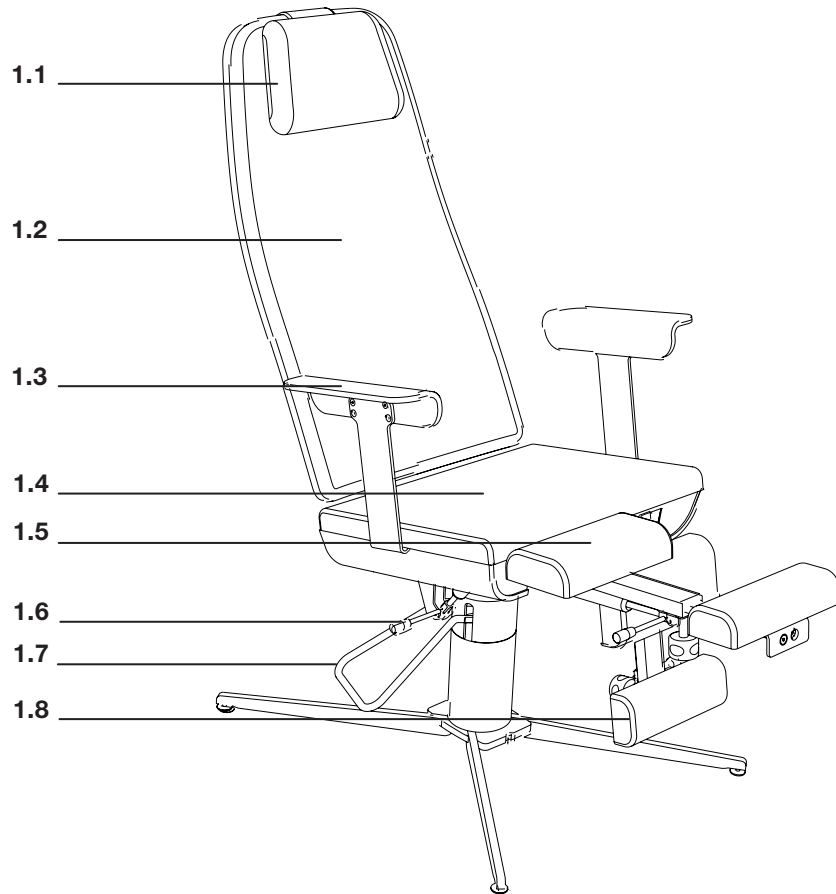
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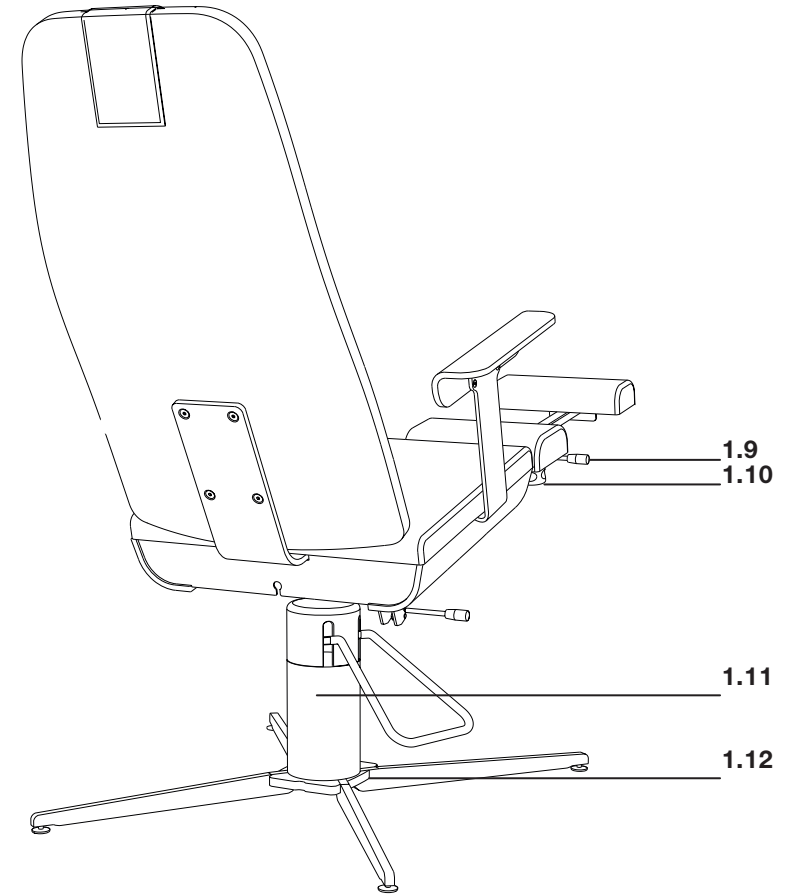
- |            |              |            |                              |
|------------|--------------|------------|------------------------------|
| <b>1.1</b> | HEAD REST    | <b>1.6</b> | ACTUATING LEVER FOR ROTATION |
| <b>1.2</b> | BACK CUSHION | <b>1.7</b> | HAND WHEEL FOR FOOTREST      |
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- |             |                              |             |                              |
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| <b>1.9</b>  | ACTUATING LEVER FOR LEG REST | <b>1.12</b> | ELECTRICAL HEIGHT ADJUSTMENT |
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- |            |              |            |   |
|------------|--------------|------------|---|
| <b>1.1</b> | HEAD REST    | <b>1.6</b> | ACTUATING LEVER FOR SEAT INCLINATION          |
| <b>1.2</b> | BACK CUSHION | <b>1.7</b> | PUMP LEVER FOR HEIGHT ADJUSTMENT AND ROTATION |
| <b>1.3</b> | ARM REST     | <b>1.8</b> | FOOTREST                                      |
| <b>1.4</b> | SEAT CUSHION |            |   |
| <b>1.5</b> | CALF SUPPORT |            |   |



- |             |                              |             |                             |
|-------------|------------------------------|-------------|-----------------------------|
| <b>1.9</b>  | ACTUATING LEVER FOR LEG REST | <b>1.11</b> | HYDRAULIC HEIGHT ADJUSTMENT |
| <b>1.10</b> | HAND WHEEL FOR FOOT SUPPORT  | <b>1.12</b> | BASE                        |



## ABBREVIATIONS AND SYMBOLS



This symbol identifies a potential point of danger for people or for the device itself. It must be taken note of.



This symbol identifies useful advice. Additional information about the product and how to use it is provided here.



**Device with protection class II  
(Protective insulation)**



**Manufacturing date**



**The disposal notice  
must be complied with!**



**CE conformity  
mark**



**Application part of  
type B**



**Observe the instructions  
for use!**



**The manufacturer cannot be made responsible for damage that is caused through use that deviates from the intended use or failure to comply with the safety notices and warnings.**



### General safety instructions

The SINA podiatry chair has been built in accordance with the state of technology and acknowledged safety rules and standards. Each treatment chair is tested for function and safety prior to delivery and the inspection certificate is affixed to the treatment chair. However, if operated incorrectly or misused, hazards can occur for:

- the health of the user and/or of the patient;
- the treatment chair and possibly the owner's other assets;
- the efficient function of the podiatry chair.
- All persons who have anything to do with set up, commissioning, operation, service and maintenance must:
  - be appropriately qualified;
  - have these instructions for use available to them, have understood these instructions for use and precisely comply with them.

Unauthorized persons and non-instructed persons are not allowed to operate the podiatry chair under any circumstances.



Comply with the Medical Devices Directive (MPBetV).

The owner must instruct the users, make the instructions for use accessible and ensure (verifiably) that these instructions for use have been read and understood.



#### **Danger from electrical energy**

Danger from electrical energy may be caused by: performing the wrong maintenance tasks on the power supply, using "NON-ORIGINAL PARTS" in the power supply area, failure to unplug the mains plug for maintenance tasks, running over, damaging the mains cable. Maintenance tasks may only be executed by authorized specialists.

If the podiatry chair is not in use, always unplug the mains plug. The podiatry chair must not be electrically adjusted, under any circumstances, as long as people are within the movement range of the podiatry chair.

Interference with other electrical devices can occur under certain circumstances.



#### **Protective devices**

Safeguards and cladding elements are installed for the protection of the patient and user. They must not be removed, changed or bypassed.

HAVE IDENTIFIED DEFECTS RECTIFIED IMMEDIATELY! Contact RUCK service department immediately:  
Tel + 49 7082 944 22 55



#### **Maintenance and safety instructions**

The prescribed maintenance tasks, as specified under point "MAINTENANCE" on page 26 must always be executed.

**IF THESE INSTRUCTIONS ARE NOT HEEDDED, THE GUARANTEE WILL LAPSE AND WE CANNOT ACCEPT LIABILITY!**



#### **Daily function checks**

Prior to each treatment the checks listed below must be executed:

- All electrically adjustable sections, such as back and height adjustment must be checked for functionality via the foot switch.
- General visual inspection

**IF THIS REQUIREMENT IS NOT SATISFIED, THE GUARANTEE WILL LAPSE AND WE CANNOT ACCEPT LIABILITY!**



#### **Initial check for faults**

If operation is no longer ensured without restriction, or if you should determine that the power cable or any other cable is damaged, unplug the mains plug and arrange for the faulty cable to be replaced by a qualified electrician. Contact RUCK Service immediately: Phone +49 (0)7082 944 22 55



#### **Danger of explosion!**

Operation of the podiatry chair in areas subject to explosion hazard, can cause an explosion.



**Intended purpose**

The podiatry chair is used for supporting customers in a sitting position for the duration of treatment under supervision (maximum 6-7 hours). It's height and seat inclination can be adjusted continuously either hydraulically (SINA hydraulically height-adjustable chair) or electrically (SINA electrically height-adjustable chair).

SINA electrically height-adjustable chair:

The SINA electrically height-adjustable podiatry chair is designed for use in offices for podiatry, foot care, orthopaedics and/or diabetic outpatient foot clinics.

SINA hydraulically height-adjustable chair:

The SINA hydraulically height-adjustable podiatry chair is designed for use in podiatry practices, foot care, nail design, cosmetics, wellness, orthopaedics and/or diabetic outpatient foot clinics.

ANY OTHER USE IS NON-INTENDED USE!

The podiatry chair must only be occupied by one person with a maximum weight of 150 kg. Under no circumstances may two or more persons use the podiatry chair at the same time.

Conversions, modifications, attachment of supplemental equipment that is not provided by the manufacturer are not permitted. Exceptions can only be approved by the manufacturer in writing.

Only use original spare parts for repairs.

**IF THESE INSTRUCTIONS ARE NOT HEEDDED, THE GUARANTEE WILL LAPSE AND WE CANNOT ACCEPT LIABILITY!**

Intended use also includes compliance with all instructions, safety instructions and regulations specified in these instructions for use.



**SCOPE OF DELIVERY**

Check that the delivery is complete.

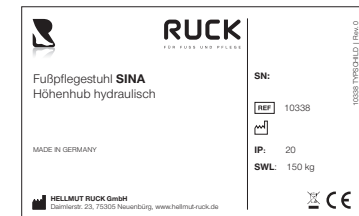
1. SINA podiatry chair
2. Head rest
3. FS320 foot switch, LINAK  
(only for SINA electrically height-adjustable chairs, item no. 10337)
4. 2 x tools for adjusting the stand
5. Instructions for use

**TRANSPORT | UNPACKING | STORAGE**

The podiatry chair should be delivered and temporarily stored in the transport box.

For further information on ambient conditions during operation, storage and transport, see page 37.

Prior to setting up, please check whether the mains voltage matches the rated voltage and frequency specified on the rating plate (on the base frame). The podiatry chair can be connected with the provided mains cable (cable length 2 m) on any Schuko plug socket.



**Packaging**

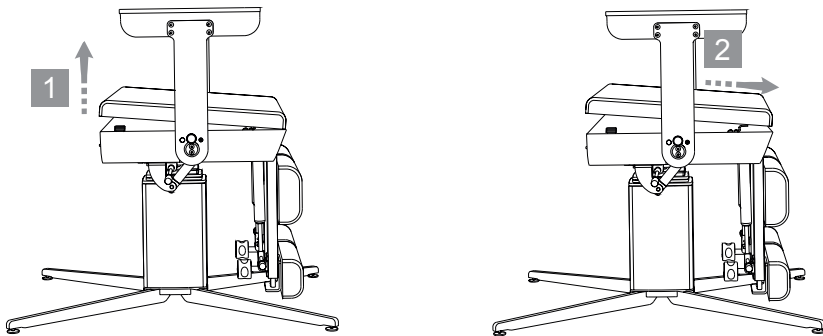
The packaging has been designed to protect the product while in transit. The packaging materials used have been selected with due regard for environmental issues and can be recycled.



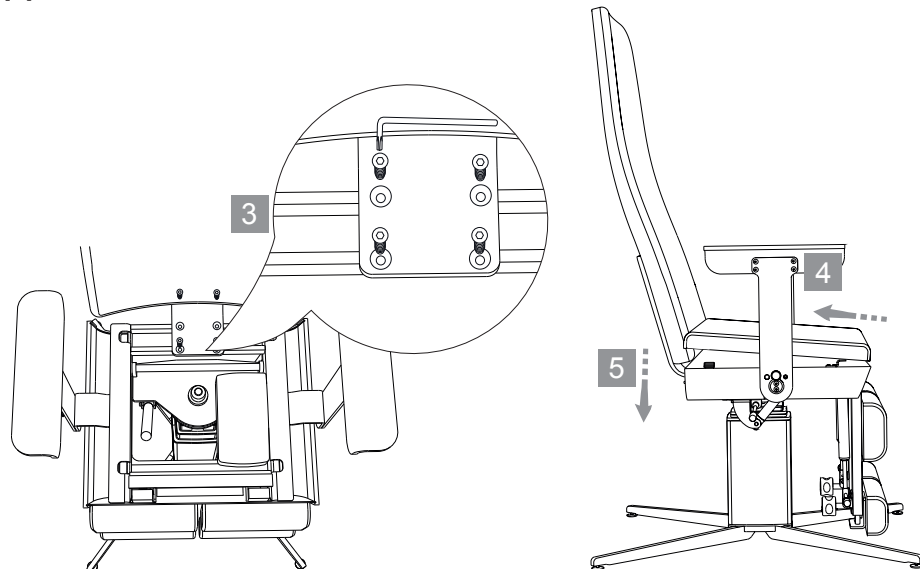


### MOUNTING THE BACKREST CUSHION

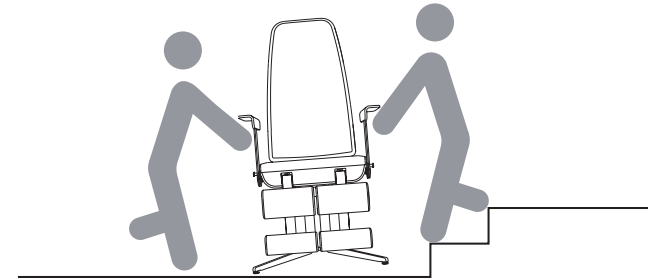
- [1] Lift up the rear part of the seat cushion.
- [2] Then push the seat cushion forward out of the anchoring.



- [3] Now mount the backrest with the four Torx screws provided, then tighten them firmly (approx. 25 Nm).
- [4] Slide the seat cushion fully into the anchoring.
- [5] Press the seat cushion onto the chair.



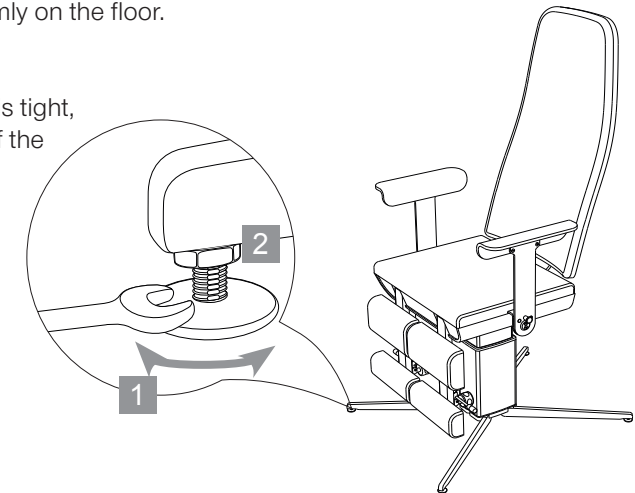
### CARRYING EXAMPLE



### COMPENSATING FOR FLOOR UNEVENNESS

In order to achieve optimum stability, uneven floors can be compensated for with the aid of height-adjustable supporting plates. To adjust the height of the supporting plates, please proceed as follows:

- [1] Use the enclosed tool to adjust the supporting plates so that they rest firmly on the floor.
- [2] Then rotate the lock nut until it is tight, to fix the position of the supporting plates.



To ensure a stability, do not rotate the thread of the supporting plates more than 1 cm out of the foot.



**Danger of crushing: mains cable**

Do not run over the mains cable (danger of crushing, electrical hazard), the foot switch cable or a hand switch cable which may be hanging down or place objects on it (danger of crushing, malfunction).



**Stumbling hazard**

Lay out the mains cable and foot switch in such a manner that they do not pose a stumbling hazard.



**Electrical hazard**

The mains cable and cable for the foot switch must not get into the moving parts; there is a danger of crushing and/or danger of electrical shock.



**Accessibility of the mains plug**

The accessibility of the mains plug must always be ensured for disconnecting from the mains network in an emergency.



**Set-up Diagram | Space Requirements**

It is essential to ensure that the chair is positioned far enough away from the wall that the backrest can be freely moved from the sitting position to the maximum inclination to the rear.



**Positioning of the podiatry chair**

Position the podiatry chair away from the wall so that the backrest cannot touch the wall when the seat section is tilted backwards. Remove the podiatry chair away from the wall so that when the seat part is tilted into the sitting position, the backrest does not stick to the windowsill or other obstacles (back part is bent).

If the backrest of the podiatry chair is prevented from lowering by an obstacle, the spindle of the motor continues to run.

Result: When the obstacle is removed, the backrest falls as far as the spindle stop. The motor can be destroyed, the patient can be frightened or damage can occur.



**Armrests, back section**

Do not sit on the armrests or on the head end of the back section. Only use the armrests for arm support. Any other type of use is prohibited. (Danger of falling, danger of injury) The safe work load is 20 kg.



**Load**

The podiatry chair may only support one person weighing a maximum of 150 kg (including cushion support). The podiatry chair must not be occupied by two or more persons at the same time under any circumstances (danger of falling, danger of breaking and danger of injury).



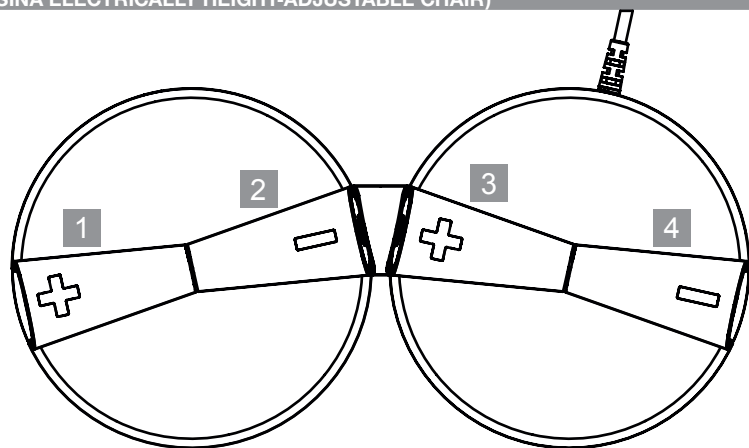
**Moving parts**

Do not reach into moving parts (mechanical elements). Significant injuries can occur. The cushion is a component of the podiatry chair.



**General note**

The daily function check includes checking all movement sequences as described under point "Operation" starting on page 20.



1 2

**HEIGHT ADJUSTMENT**

Press key [1] to move the height adjustment upward. For movement in the opposite direction, press button [2]. This moves the height adjustment downward.

3 4

**SEAT INCLINATION ADJUSTMENT**

Press button [3] and the seat and backrest will move backwards. For movement in the opposite direction, press button [4]. This brings the seat and backrest into the upright position.



Do not apply your full body weight to the foot switch, otherwise the buttons may be damaged!



The foot switch must not be rinsed under running water or submerged in water. This can lead to loss of function!

**CLEANING**

The podiatry chair's foot switch is protected against ingress of dust and moisture in accordance with IP X6. For cleaning and disinfecting, use the RUCK surface disinfection wipes, medical product, alcohol-free (item no. 2967002, item no. 2967102 or item no. 2967202).

Please observe the exposure times according to the labelling of the surface disinfection wipes.

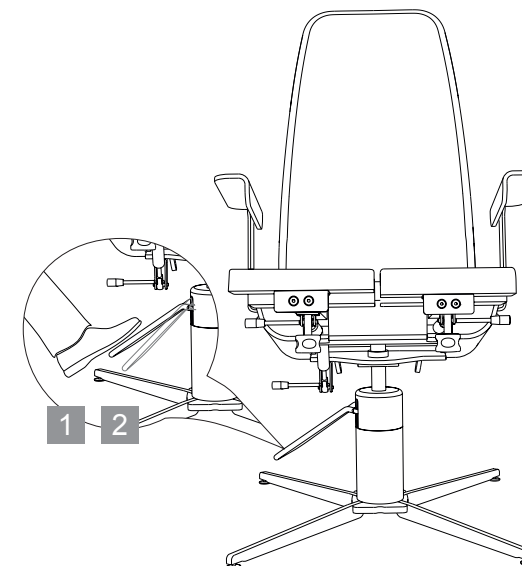


1 2

**HEIGHT ADJUSTMENT**

[1] To move the height adjustment upwards, pump the lever of the hydraulic pump down several times until the desired height is reached.

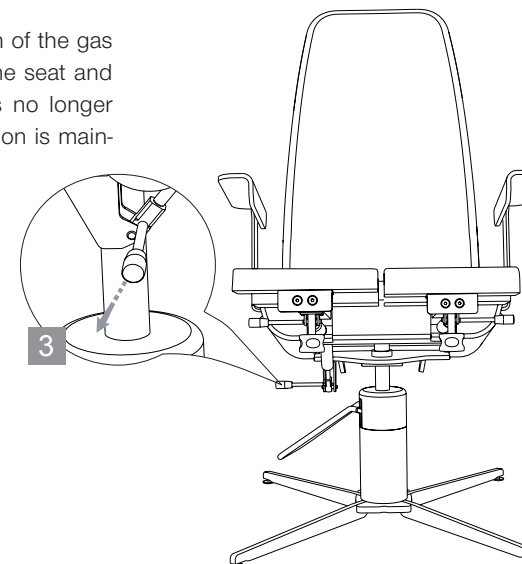
[2] To lower the height adjustment, push the lever of the hydraulic pump completely downwards and hold this position until the podiatry chair has been lowered to the desired height.



3

**SEAT INCLINATION ADJUSTMENT**

Press the release lever in the direction of the gas spring in order to be able to swivel the seat and backrest freely. If the release lever is no longer actuated, the current angle of inclination is maintained.

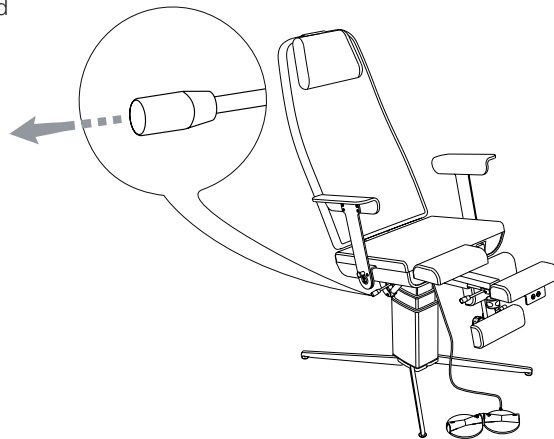




### ROTATING SEAT (SINA electrically height-adjustable chair)

The seat of the SINA (electrically height-adjustable chair) can be swivelled 90° from the seating position in both directions. To rotate the seat, pull the lever out slightly. This releases the locking mechanism and the seat can be swivelled to the desired position.

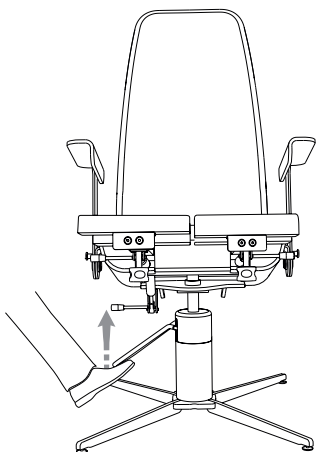
When the actuating lever is released the rotation is set automatically as soon as the seat is in the seating position.



For safety reasons, the chair may only be turned in the lowered sitting position.

### ROTATING SEAT (SINA hydraulically height-adjustable chair)

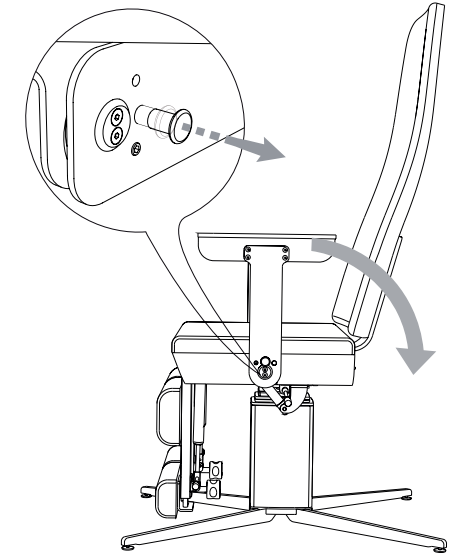
The seat of the SINA (hydraulically height-adjustable chair) can be freely rotated by 360° from the starting position. To fix the rotating seat, pull the lever of the hydraulic pump upwards. The seat can be fixed in any position. To release the fixing, press the pump lever of the hydraulic pump slightly downwards.



### SWIVELLING ARMREST

It is recommended that the patients get on and off from the side. In this way, walking over waste materials that accumulate during the treatment, can be prevented. The armrest is folded back for taking a seat from the side.

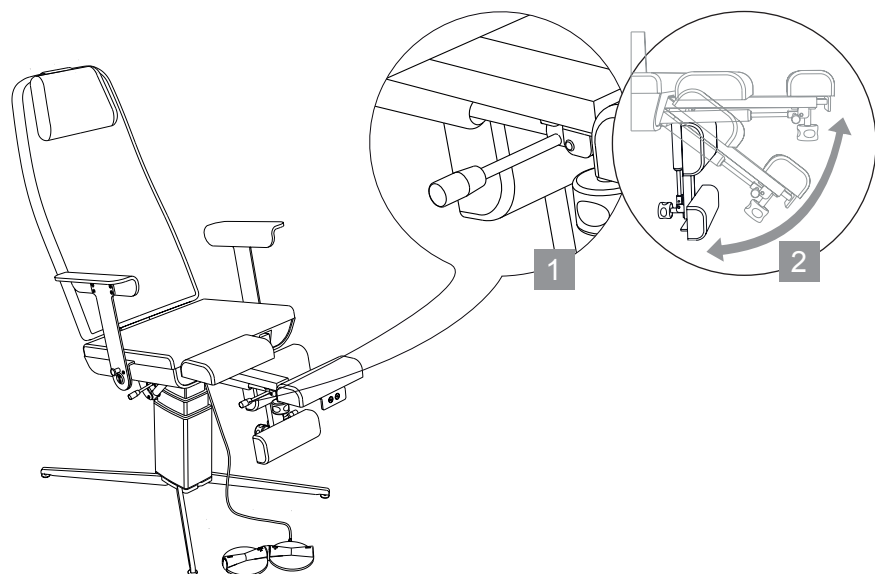
To do this, pull out the armrest's locking device. Then, the armrest can be swivelled backwards. To return the armrest to its original position, tilt it forward until it audibly engages in the locking mechanism.





### INCLINING LEG REST

So that you do not need to lift the entire weight of your patient's leg yourself, you are supported by powerful gas pressure springs. To adjust the leg rest, activate the actuating lever [1] and select the desired position [2]. As soon as the actuating lever is released, the position is reliably held by the gas springs.



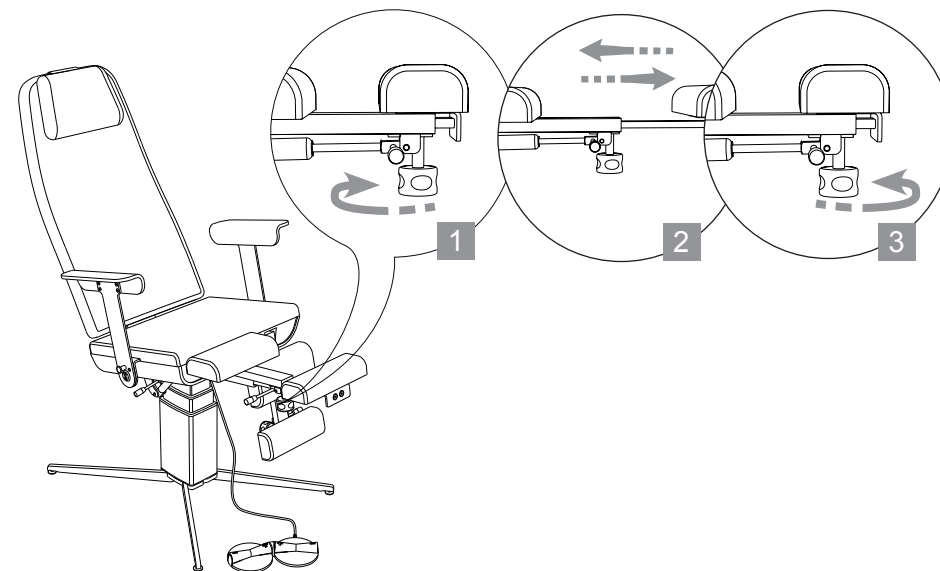
#### Risk of injury

If the height adjustment is moved downwards with the footrest extended and the leg rest lowered, the footrest can hit the floor. This may result in injury to the user or damage to the chair.



### EXTENDING AND RETRACTING THE FOOTREST

Turn the handwheel [1] to the released position. Then pull the footrest [2] to the desired position and turn the handwheel tight again [3].



#### Risk of injury

If the height adjustment is moved downwards with the footrest extended and the leg rest lowered, the footrest can hit the floor. This may result in injury to the user or damage to the chair.



### Maintenance

To ensure continued safe and correct operation of the SINA electrically height-adjustable podiatry chair (medical product), it must be maintained by RUCK service after 24 months at the latest. During maintenance, an electrical safety inspection is carried out in accordance with DIN EN 62353.

For this, contact RUCK service.

### RUCK SERVICE

HELLMUT RUCK GmbH  
Daimlerstrasse 23  
75305 Neuenbürg, Germany  
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Fax +49 (0)7082. 944 22 59  
E-mail: [service@hellmut-ruck.de](mailto:service@hellmut-ruck.de)  
Website: [www.hellmut-ruck.de](http://www.hellmut-ruck.de)



### Undertaking maintenance and repairs

Maintenance tasks and repairs may only be undertaken by specialists authorized by the manufacturer.

If all listed points are not observed/fulfilled, any guarantee claim or liability claim for material damage, as well as for personal injury is rendered null and void.

Only original spare parts may be used.



### Danger of damage due to improper care of artificial leather and surfaces

Disinfect the contact surfaces after each treatment with RUCK surface disinfection wipes, medical product, alcohol-free (item no. 2967002, item no. 2967102 or item no. 2967202).

Tip: Using disposable covers helps to avoid direct skin contact with the artificial leather (body fats and sweat are sometimes quite aggressive) and thus to protect it. Clean the artificial leather surfaces with a damp cloth and clean with RUCK artificial leather cleaner and care product (item no. 2947001). Please observe the exposure times of the disinfectants according to the product labelling.

Danger of damage due to improper care of artificial leather and wood surfaces. Do not use any concentrated disinfectants, solvents, cleaning agents or liquids that contain alcohol (>50 % alcohol content). Do not use spray disinfectants.

Take great care to ensure that the cleaning utensils used are clean. If mineral contaminants such as grains of sand or dust are embedded in the cleaning agents, this can destroy the surface. Do not use any scouring agents, such as abrasive cleaners, cleaning sponges or similar items that may contain abrasive particles. Residues of leaked fluids must be removed from the surface immediately with a soft cloth.

For protective cleaning of the surfaces, use a soft cotton cloth or the RUCK microfibre cloth that is also suitable for wood surfaces (AN: 29616). Caution: Other cleaning cloths with plastic fibres can have an abrasive effect and consequently they can damage the surface. Over time, traces of use can appear on the surfaces. These are more or less noticeable depending on light incidence. They do not constitute a lessening of utility, but rather, as is the case with all surfaces over the long term due to the wear involved in the daily routine of the medical practice, they cannot be avoided. Spots or stains caused by liquids that may corrode the surface (such as propolis, tea tree oil, cleaners that contain chlorine or similar substances) are categorically excluded from the warranty.



**Risk of disease transmission**

Insufficient disinfection can result in transmission of disease. Always comply with the requirements of the responsible national body for hygiene and disinfection.

Disinfect the product regularly (see page 27).



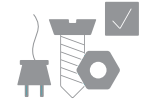
**SPARE PARTS**

Please contact RUCK SERVICE for spare parts.

Telephone +49 (0)7082 944 22 55

Fax +49 (0)7082 944 22 59

E-mail [service@hellmut-ruck.de](mailto:service@hellmut-ruck.de)



**DISPOSAL**



**Environmental hazard!**



Incorrect disposal endangers our environment.

Please use available return and collection systems for disposing of the SINA podiatry chair at the end of its life-cycle!

Dampers, gas pressure and gas tension springs are pressurised. They must not be opened or heated. They have an oil fill; this must be disposed of in line with waste legislation.



<b>Seating position height (a)</b>	<b>56 cm</b>
Highest seat position	88 cm
<b>Highest position of leg rest (b)</b>	<b>130 cm</b>
Seat cushion width (c)	56 cm
<b>Backrest cushion width (c)</b>	<b>56 cm</b>
Total width incl. armrests (d)	77 cm
<b>Total length with footrest extended (e)</b>	<b>140 cm</b>
<b>Total weight</b>	<b>68 kg</b>
Maximum weight capacity	150 kg
<b>Mains voltage</b>	<b>100 - 240 VAC, 50/60 Hz+ / +10%</b>
Nominal power	270 VA
<b>Protection class</b>	<b>IP 20</b>
Protection class	Class 2
<b>Duty cycle</b>	<b>10% (= 2 min. ON /18 min. OFF)</b>
Warranty	2-years



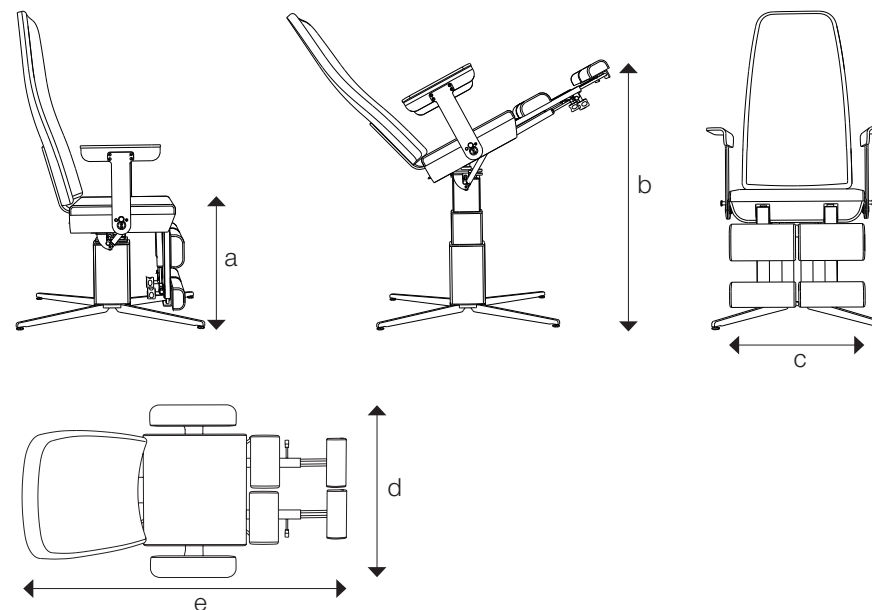
**Electromagnetic influence**

The possibility that, through the use of additional electronic devices, electromagnetic interference/influence can occur cannot be excluded.



<b>Seating position height (a)</b>	<b>56 cm</b>
Highest seat position	76 cm
<b>Highest position of leg rest (b)</b>	<b>118 cm</b>
Seat cushion width (c)	56 cm
<b>Backrest cushion width (c)</b>	<b>56 cm</b>
Total width incl. armrests (d)	77 cm
<b>Total length with footrest extended (e)</b>	<b>140 cm</b>
Total weight	69 kg
<b>Maximum weight capacity</b>	<b>150 kg</b>
Warranty	2 years

**DIMENSIONS OF SINA | Electrically height-adjustable chair and hydraulically height-adjustable chair**







## WARRANTY

The product comes with a 2-year warranty. Normal wear of surfaces, castors, etc., and other moving parts is excluded from the warranty. Traces of use and signs of wear and tear due to age and use, which are based on normal use corresponding to the performance values and the nature of the podiatry chair, are in accordance with the contract and are not defects in the legal sense.

The warranty runs from the date of purchase when the product was first bought. The date of purchase must be confirmed by the sales receipt. Within the scope of the warranty, HELLMUT RUCK GmbH will, at no charge, either repair or replace the defective products – at RUCK’s discretion. The prerequisite is carriage-paid shipment of the defective product together with the purchase receipt. The local agent is responsible for claims made outside of Germany. In case of doubt, please check with RUCK before returning the device.

The warranty becomes null and void if we find that the problem was caused by improper or incorrect installation or usage, by non-observance of the instructions for use, by external intervention or as a result of a non-authorized repair or modification.

The warranty is limited to repair or replacement of the product. Further liability (particularly loss of revenue or earnings) is excluded. If however, it turns out that it is a problem that is not covered by the terms of the warranty or that the period of the guarantee has elapsed, any costs for inspection and repair must be borne by the customer.

We reserve the right to make changes to and deviations from the technical design.



## AMBIENT CONDITIONS

Ambient temperature and humidity (non-condensing)	
During operation	+5 °C to +40 °C and 30% to 75% humidity (non-condensing)
During transit and storage	-10 °C (without control of the relative humidity) up to 50 °C (at a relative humidity of 15% to 93%, non-condensing)
Air pressure	700 hPa (≈ 3000 metres above sea level) - 1060 hPa

Guidelines and manufacturer’s declaration – electromagnetic emissions		
The SINA electrically height-adjustable podiatry chair is designed for use in environments as specified below. The client or user of the podiatry chair must ensure that it is used in such an environment.		
Emitted interference measurements	Conformance	Guidelines for the electromagnetic environment
Conducted emissions according to CISPR 11	Group 1, Class B	The SINA electrically height-adjustable podiatry chair uses HF energy solely for internal functions. Therefore, its HF emissions are very low and it is unlikely that any interference will be caused to nearby electronic devices.
Interference radiation according to CISPR 11	Group 1, Class B	The SINA electrically height-adjustable podiatry chair is suitable for use in all facilities including those in the home and those directly connected to a public power supply, which also supplies buildings used for residential purposes.
Harmonic component emissions according to IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions according to IEC 61000-3-3	Complies	



**SAFETY NOTICES**

The interference and interference immunity of the SINA electrically height-adjustable podiatry chair meets the requirements imposed on devices that are not intended for life-support in the typical clinical environment.



Due to EN 60601-1-2 regarding the electromagnetic compatibility of electrical medical devices, we must draw your attention to the following:

- Medical electrical devices are subject to special measures in terms of electromagnetic compatibility and must be operated in accordance with the requirements laid out in these instructions for use.
- Portable and mobile high-frequency communication devices (including accessories, such as antenna cable and external cables) can influence medical electrical equipment. Such equipment should be operated at a minimum distance of 30 cm from the RUCK SINA podiatry chair and its parts. Otherwise the possibility of device performance impairments cannot be excluded. Please also refer to: 8.2 Specifications referring to electromagnetic compatibility in accordance with EN 60601-1-2



Danger of strangulation due to mains cable. Keep children away from the device.



Please check the mains power connection regularly for signs of damage and if any are found, disconnect the device from the mains.



Protect the device against pest infestation through regular checks and cleaning.



The instructions regarding operation and transport of the device must be adhered to.



The use of accessories, transducers and leads other than those specified or provided by the manufacturer of this equipment may result in increased electromagnetic emissions or reduced electromagnetic immunity of the equipment and may result in improper operation.



Avoid using this equipment in close proximity to other equipment or with other stacked equipment as this may result in improper operation. If use in the previously described manner is nevertheless necessary, this device and the other devices should be observed to make sure that they are functioning properly.


Guidelines and manufacturer's declaration – electromagnetic interference immunity			
The SINA electrically height-adjustable podiatry chair is designed for use in electromagnetic environments as specified below. The client or user of the podiatry chair must ensure that it is used in such an environment.			
Interference immunity tests	IEC 60601 test level	Compliance level	Guidelines for the electro-magnetic environment
Static electricity discharge (ESD) according to IEC 61000-4-2	Contact discharge: ± 8 kV Air discharge: ±2 kV, ±4 kV, ±8 kV, ±15 kV	Contact discharge: ± 8 kV Air discharge: ±2 kV, ±4 kV, ±8 kV, ±15 kV	Floors should be made of either wood, concrete or with a ceramic tile covering. If the floor is covered with a synthetic material, relative air humidity must be at least 30%.
Proximity fields RF wireless communication devices (IEC 61000-4-3)	385 MHz; pulse modulation: 18 Hz; 27 V/m 450 MHz, FM + 5 Hz deviation: 1 kHz sine; 28 V/m 710, 745, 780 MHz; pulse modulation: 217 Hz; 9 V/m 810, 870, 930 MHz; pulse modulation: 18 Hz; 28 V/m 1720, 1845, 1970 MHz; pulse modulation: 217 Hz; 28 V/m 2450 MHz; pulse modulation: 217 Hz; 28 V/m; 5240, 5500, 5785 MHz; pulse modulation: 217 Hz; 9 V/m	385 MHz; pulse modulation: 18 Hz; 27 V/m 450 MHz, FM + 5 Hz deviation: 1 kHz sine; 28 V/m 710, 745, 780 MHz; pulse modulation: 217 Hz; 9 V/m 810, 870, 930 MHz; pulse modulation: 18 Hz; 28 V/m 1720, 1845, 1970 MHz; pulse modulation: 217 Hz; 28 V/m 2450 MHz; pulse modulation: 217 Hz; 28 V/m; 5240, 5500, 5785 MHz; pulse modulation: 217 Hz; 9 V/m	



Rapid transient electric interference/bursts according to IEC 61000-4-4	Power cables: 2 kV; 100 kHz repetition frequency Signal lines: 1 kV; 100 kHz repetition frequency	Power cables: 2 kV; 100 kHz repetition frequency Signal lines: 1 kV; 100 kHz repetition frequency	The quality of the supply current should correspond to typical commercial and hospital environment standards.
Surges according to IEC 61000-4-5	L-N: 1kV L-PE, N-PE: 2 kV	L-N: 1kV L-PE, N-PE: 2 kV	The quality of the supply current should correspond to typical commercial and hospital environment standards.
Voltage dips Short-term interruptions and fluctuations of the supply voltage according to IEC 61000-4-11	0 % UT for 0.5 period at phase angles: 0°,45°,90°,135°,180°,225°,270°,315°  0 % UT for 1 period at 0°  70 % UT for 25/30 periods at 0° 0 % UT for 250/300 periods at 0°	0 % UT for 0.5 period at phase angles: 0°,45°,90°,135°,180°,225°,270°,315°  0 % UT for 1 period at 0°  70 % UT for 25/30 periods at 0° 0 % UT for 250/300 periods at 0°	The quality of the supply current should correspond to typical commercial and hospital environment standards. If the user of the SINA electrically height-adjustable podiatry chair requires continued function, also in the event of an interruption in the energy supply, it is recommended that the podiatry chair be powered from an uninterruptible power supply or a battery.
Magnetic field at supply frequency according to IEC 61000-4-8	30 A/m, 50 Hz	30 A/m, 50 Hz	Magnetic fields at the mains frequency should comply with the typical values as they are used in business and hospital environments
Transmitted high frequency field according to IEC 61000-4-3	80-2700 MHz; 1kHz AM 80%; 3 V/m	80-2700 MHz; 1kHz AM 80%; 3 V/m	

**NOTE:**  $U_1$  is the supply voltage before implementation of the test level.



Guidelines and manufacturer's declaration – electromagnetic interference immunity			
The SINA electrically height-adjustable podiatry chair is designed for use in electromagnetic environments as specified below. The client or user of the podiatry chair must ensure that it is used in such an environment.			
Interference immunity tests	IEC 60601 test level	Compliance level	Electromagnetic environment – guidelines
Conducted HF interference variables according to IEC 610000-4-6	0.15-80 MHz; 1kHz AM 80 %; 3 Vrms , 6 Vrms in ISM radio band	0.15-80 MHz; 1kHz AM 80 %; 3 Vrms , 6 Vrms in ISM radio band	<p>Portable and mobile radio devices shall not be used within a closer proximity to the (device or system), including the cables, than the recommended safety distance, calculated using the equation applicable for the transmission frequency.</p> <p>Recommended safety distance:</p> $d = \left[ \frac{3.5}{V_1} \right] \sqrt{P}$ $d = \left[ \frac{3.5}{E_1} \right] \sqrt{P}$ $d = \left[ \frac{7}{E_1} \right] \sqrt{P}$ <p>With P" as the nominal power of the transmitter in watts (W) according to the information provided by the transmitter manufacturer, and with d" as the recommended safety distance in meters (m).</p> <p>Based on an on-site investigation, the field strength of stationary radio transmitters a" should be less than the compliance level b" at all frequencies.</p> <p>Interference is possible in the vicinity of equipment that is labelled with the following icon.</p> 
<p>NOTE 1: With 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic disturbances is influenced by the absorption and reflection of buildings, other devices and human beings.</p>			
<p>a The field intensity of stationary radio transmitters, such as wireless phone base stations and mobile rural radio equipment, amateur radio stations, AM and FM radio and TVs cannot be accurately predetermined. A study of the location should be taken into account in order to ascertain the electromagnetic environment with respect to the stationary transmitters. If the magnetic field strength, measured at the location where the SINA electrically height-adjustable podiatry chair shall be used, exceeds the above specified compliance level, we recommend close observation of the SINA electrically height-adjustable podiatry chair in order to prove functioning for the intended purpose. Should unusual performance features become apparent, additional measures may become necessary e.g. a shifted alignment or a complete change of position of the SINA electrically height-adjustable podiatry chair.</p>			
<p>b Above a frequency range of 150 kHz to 80 MHz the magnetic field strength should be less than 3 V/m.</p>			



Recommended safety distances between portable and mobile HF telecommunication devices and the SINA electrically height-adjustable podiatry chair			
The podiatry chair is designed for use in electromagnetic environments in which the HF interference is monitored. The customer or user of the podiatry chair can contribute to avoiding electromagnetic interference by maintaining the minimum clearance range between portable and mobile HF telecommunication equipment (transmitters) and the podiatry chair, depending on the output line of the communications appliance as specified below.			
Safety distance depending on the transmitting frequency in metres (m)			
Nominal power of the sender	150 KHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
	$d = \left[ \frac{3.5}{V_1} \right] \sqrt{P}$	$d = \left[ \frac{3.5}{E_1} \right] \sqrt{P}$	$d = \left[ \frac{7}{E_1} \right] \sqrt{P}$
0.01	0.12	0.40	0.40
0.1	0.37	1.26	1.26
1	1.17	4.00	4.00
10	3.69	12.65	12.65
100	11.67	40.0	40.0
In the case of transmitters whose maximum nominal power is not included in the above table, the recommended safety distance d in metres (m) can be determined by using the equation from the appropriate column where P represents the maximum nominal power of the transmitters expressed in watts (w) in accordance with the transmitter manufacturer's specifications.			
NOTE 1: With 80MHz and 800 MHz, the higher frequency range applies. NOTE 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic disturbances is influenced by the absorption and reflection of buildings, other devices and human beings.			





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