Instructions for use

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Hoffmann GmbH

Curalizer Arne and Bruno

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Information on the Instructions for use

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1. Preface and general information

Dear customer,

Thank you for choosing a product from Reha & Medi Hoffmann GmbH. These instructions for use provide you with all the important information and notes on the Curalizer. It is also intended to make it easier for you to get to know the Curalizer and to provide instructions for its proper use and safe operation.

Please read these instructions carefully and completely before starting up and using your Curalizer. Keep them handy for future reference.

All directions are indicated looking from the rear of the product in the direction of travel, as shown in Fig. 1.

Assembly / Mounting
No assembly or mounting is required. The Curalizer is delivered ready for use. Before first use, the batteries - if present - must be charged.

If, despite careful study, further information is required, please do not hesitate to contact us. You will find our contact details at the beginning of these instructions for use.

Online at www.rehamedi.de you will find all documents in digital form.

Fig. 1: Basis for Direction / page references

1.1 Copyright

These operating instructions, including all their parts and illustrations, are protected by copyright. The rights to translation, reprinting, extraction of pictorial representations as well as reproduction and storage in data processing systems are reserved, even if only excerpts are used. The use in lectures or publication in media, in particular in publications, also in extracts, requires the prior written consent of Reha & Medi Hoffmann GmbH.

1.2 Disclaimer

Understanding, observing and complying with these instructions for use is absolutely essential for patient safety and the safety of users as well as the trouble-free operation of the products of Reha & Medi Hoffmann GmbH. Reha & Medi Hoffmann GmbH does not assume any warranty or liability for direct or indirect damage resulting from unauthorised modifications to the product or failure to observe these instructions for use.

The products of Reha & Medi Hoffmann GmbH may only be used in conjunction with equipment options approved by the manufacturer as specified in the instructions for use.

Any combination of the product with other products, in particular with medical products, as well as any technical modification to the product is generally not permitted. Exceptions require the written approval of the manufacturer.

Despite careful checking, errors in this document cannot be completely ruled out. We reserve the right to make technical or content-related changes at any time without prior notice.

Documents in printed form are not subject to a change service.

1.3 Definition of groups of people

For reasons of better readability, the simultaneous use of the language forms male, female and diverse (m/f/d) is waived.

Manufacturer
defines all measures to ensure safe and proper handling and use and is responsible for instructing the operator in this respect.

Operator
is any natural or legal person responsible for the operation of the health care facility in which the Curalizer is used by its employees.

User
is medical and nursing staff who use the product for mobilisation after instruction by the operator. As well as maintenance personnel with basic training in mechanical and mechatronic systems who are responsible for troubleshooting. Users are able to recognise, assess and, if possible, avoid potential hazards during use.

Patient
is a - person undergoing medical treatment
- a person receiving care
- persons under care who are mentally and/or physically impaired

health care professional (staff)
Are, among others, doctors, nurses, caregivers, physiotherapists / occupational therapists. Trainee medical personnel must be supervised during use in addition to instruction.

Lay persons and third parties
Laypersons are persons who have been instructed in cleaning work by healthcare professionals. Third parties" also includes, for example, relatives of the patient.

These instructions for use have been prepared for users and operators!

2. Description and purpose

The Curalizer is a modern mobile patient chair for clinics and care facilities for mobilising weakened persons who are no longer active for physical or mental reasons. Its elegant handling allows staff to position patients as desired as well as transport them safely. The Curalizer has an advanced kinematic system for simultaneous adjustment of the inclination of the seat and the backrest, whereby the angle between the seat and the backrest adapts to the respective position. Independent height adjustment can be used in any seating position.

All position adjustments as well as the height adjustment of the Curalizer Bruno are carried out by means of two electric drives in battery operation and are controlled by a hand switch. The positions can be selected continuously from a comfortable resting position to a mobilising stand-up aid. The rechargeable lead-fleece battery is replaceable and comes with a separate charging station. All drives of the Curalizer Bruno can be switched off by means of an emergency stop switch located behind the backrest.

The height adjustment of the Curalizer Arne is controlled by a hydromechanical pump lever. The position adjustments are made with the help of the release bar on the backrest. Both models have a wide seat and a high backrest that can tilt far back. The leg rest is lowered or raised synchronously with the inclination of the backrest. The seat and backrest have comfortable, viscoelastic and disinfectable padding that relieves pressure and helps prevent bedsores. The position of the neck half-roll in the head area is adjustable.

There are padded armrests on both sides of the seat. Both armrests can be swivelled upwards to facilitate the lateral transfer of patients. There is an automatic lock in the lowest position to prevent unwanted swinging up. The calf pad below the seat can be swivelled upwards to raise the legs. The independent height adjustment encourages patients to sit in and out of the chair independently, facilitates lateral transfer and ensures a back-friendly working posture for medical staff. A slide-out footrest is installed under the Curalizer to support both feet.

The Curalizer has four large swivel castors for easy manoeuvrability. The central braking device can be used to fix a directional roller as well as to operate the parking brakes.

The Curalizer is approved for a load of up to 230 kg.

2.1 Indication and contraindication

Depending on the severity of the respective functional or structural impairments, the fitting of a Curalizer may be indicated in accordance with the recommendations according to § 126 SGB V: 28A:

Considerably pronounced impairment of standing and walking, for example in the case of:

- Complete/incomplete hemiplegia (hemiparesis) and, if applicable, with involvement of the trunk musculature as a result of a brain disease (for example, stroke, brain tumour).
- Complete/incomplete paralysis of the arms and legs (tetraplegia/paresis) and, if necessary, including the trunk musculature as a result of a disease of the brain (e.g. multiple sclerosis, brain injury), the spinal cord (e.g. poliomyelitis, paraplegia due to trauma or tumour) or the peripheral nervous system/muscular diseases (e.g. Guillain-Barré syndrome, muscular dystrophies).
- Complete/incomplete paralysis of the legs (paraplegia/paresis) and, if necessary, with involvement of the trunk muscles as a result of a disease of the spinal cord (for example, paraplegia in the case of traumatic/inflammatory/tumorous thoracic and lumbar cord lesion) or disease of the peripheral nervous system/muscular diseases (for example, polyneuropathy, muscular dystrophies).
- to assume a standing position, for example in preparation for gait training and/or to achieve positive effects of an upright body position (for example with regard to circulation regulation/bone metabolism/bowel peristalsis/urinary drainage and/or to prevent pressure sores, thrombosis or joint contractures, to promote head control and arm function and to improve spatial perception), if the clinical picture and the spatial conditions make it necessary for the assistant/carer to change the location of the aid within the home.

Selected contraindications to the use of the Curalizer as a standing aid:

- Non-stabilised fractures, acute phase of a spinal cord injury.
- Symptoms of failure of autonomic vascular regulation also in other neurological and/or internal diseases.
- Cardiac emergency - acute, severe impairment of cardiovascular function.
- Surgical wounds - patients with fresh wounds after surgical procedures such as a sternotomy after cardiac surgery, after plastic surgery to cover sacral or leg decubiti, should not be raised, or only after a doctor's orders.
- The patient's body weight must not exceed 250 kg.

The Curalizer must not be used if a patient has not passed the examination of a professional with medical competence.

3. Environmental conditions

The Curalizer is intended for indoor use. If it is necessary to drive over steps or thresholds, these must be sloped or a ramp must be created. The ramps or an inclined plane may have a maximum gradient of seven degrees. The operating temperature range is +5°C to +40°C.

ATTENTION!

The position adjustments may only be made on a horizontal surface. Use in potentially explosive atmospheres is not permitted.

4. Dimensions

All dimensions in millimetres

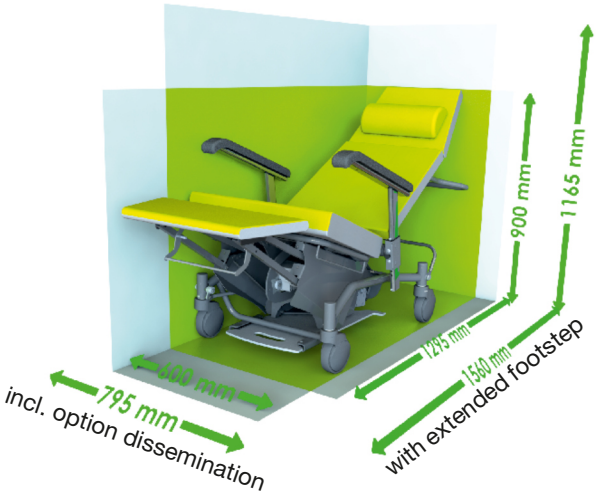


Fig. 2: Curalizer in rest position

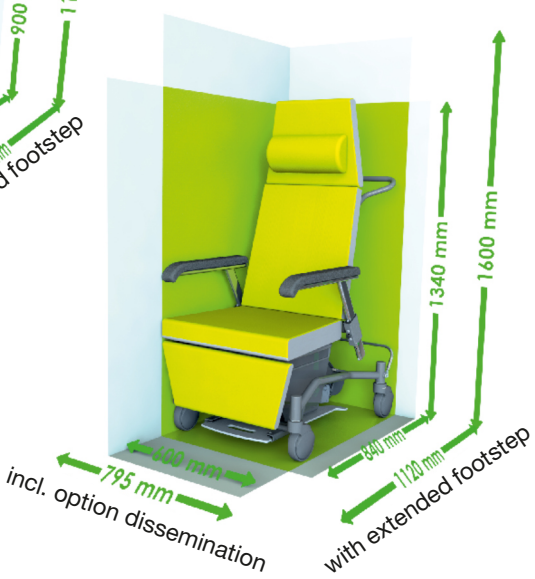


Fig. 3: Curalizer in sitting position

5. Safety and warning notices on the Curalizer

Safety and warning notices in the form of pictograms and stickers are attached to the Curalizer and to any equipment supplied with it. These must not be changed or removed. Defective or damaged notices must be replaced immediately. The manufacturer must be contacted for this purpose.

ATTENTION!

Indicates a hazard. Failure to observe and avoid the situation can situation may result in injury.

5.1 Explanation of symbols and notes

Zur Sicherheit der Patienten, zur persönlichen Sicherheit sowie zur Vermeidung von Sachschäden ist die Bedeutung folgender Symbol- und Hinweiserklärungen zu beachten. Diese sind in Gefährdungsstufen unterteilt. Beim Auftreten mehrerer Schweregrade wird immer der Warnhinweis zur jeweils höchsten Stufe verwendet.

Pictogram	Meaning
	Follow the instructions for use! Instructions for the safe use of the Curalizer are included and must be followed.
 = **230 kg**	Observe the maximum patient weight! Non-observance may result in injury to patients, medical staff and third parties or damage to property.

5.2 Basic safety information

The Curalizer is designed and manufactured in accordance with the state of the art and its recognised safety rules.
Nevertheless, risks of injury to personnel, patients and third parties or damage to the Curalizer or other property cannot be excluded if the Curalizer :

- is not used according to the intended use,
- is operated in a technically unsound condition or
- is operated by untrained or uninstructed personnel.

ATTENTION!

All safety instructions and warnings as well as the recommendations for action in these instructions for use must be read! These must be followed without fail! Failure to do so may result in personal injury and/or damage to or malfunction of the Curalizer!

Occupational safety in general

ATTENTION!

General and national accident prevention regulations must be observed. The operating personnel must be instructed accordingly.
Safety and warning signs on the Curalizer must not be changed or removed. Damaged notices must be replaced immediately and can be obtained from the manufacturer.

Qualification of the staff

ATTENTION!

Only demonstrably instructed users may use the Curalizer

- apply,
- clean,
- maintain and service as a precaution.

Commissioning

ATTENTION!

Before the Curalizer is put into operation, the medical staff must be instructed in its use by means of the instructions for use. In doing so, the potential dangers that may occur despite proper operation of the Curalizer must be pointed out in detail.
The Curalizer may only be operated in accordance with its intended use and only within its performance limits.
In the event of malfunctions or defects that may affect safety, the Curalizer must be taken out of operation immediately and immediate troubleshooting must be carried out. To do this, contact authorised technicians or the manufacturer.
Never use the Curalizer with defective technical safety devices.
Before putting the Curalizer and its accessories into operation, a visual inspection must be carried out. For this purpose, all cables must be checked for external damage, connecting elements for tightness and the presence of the protective measures.

5.3 Operational capability

Before and during the use of the Curalizer and its accessories, further instructions listed below must be observed:

- Care must be taken to ensure that the adjustment processes take place without collision, continuously and almost noiselessly.
- The function of the brake system must be checked according to item "13 Driving and braking".
- Compliance with hygiene requirements must be ensured. The pads must be checked for damage that could affect their disinfectability.
- Ensure that the connecting and fastening elements function correctly.
- The smooth functioning of all operating elements must be checked.
- The appliance may only be operated by persons who are familiar with these operating instructions. These instructions must be kept accessible to all operators. If they are lost, they must be obtained from the manufacturer.
- Before each transfer and when the patient sits down or stands up, the parking brake must be activated to prevent the Curalizer from rolling away unintentionally.
- The operator must ensure that the person on the Curalizer is suitably secured against falling out.
- The operator must ensure that no one can manipulate the Curalizer or be injured by moving parts during adjustment. The patient's arms should be in the patient's lap or on the armrests. The feet should be placed securely on the footrest or on the floor.
- Avoid direct and prolonged skin contact with the Curalizer for more than 1 hour by using a suitable pad.
- The Curalizer and the individual components are sometimes subjected to high stresses over their service life or if they are not handled properly. Any kind of cracks or scratches can be indications that the component in question will suddenly fail, which can lead to accidents with a risk of injury.
- Rattling noises or wobbling are an indication of defects!
- Technical modifications are not permitted. Only original parts from the manufacturer may be used for repairs. A combination with other medical devices may only be carried out after written approval by all manufacturers or distributors involved.
- Repairs, maintenance and adjustment work may only be carried out by persons who have sufficient specialist knowledge. The EU Medical Device Regulation (MDR 2017/745) must be observed.
- Regular product maintenance of the Curalizer is recommended in order to preserve its value.

5.4 Products with battery

Products with rechargeable batteries may only be operated with the rechargeable batteries supplied or other rechargeable batteries approved by the manufacturer. The rechargeable batteries may only be charged in the charging station provided, including the mains adapter.

Batteries

These are 24 V rechargeable batteries. Contact between the two contacts is almost impossible due to the design. Do not touch the contacts, otherwise there is a risk of fire or electric shock. As a precaution, avoid wearing metallic jewellery, as touching the electrical contacts can cause a short circuit in the battery and thus pose a risk of explosion.

Charging station

The external charging station for the batteries must be operated separately and must not be connected to the product for mains operation. The charging station may only be operated outside the patient environment. The charging station and the mains adapter with supply cable must be checked for external damage. The mains adapter is subject to the relevant regulations for mains-powered devices.

ATTENTION!

Risk of destruction of the electric motors and fire hazard when using unauthorised batteries and charging stations! Recharging batteries is only permitted with the charging station supplied by the manufacturer.

***only with Curalizer Bruno**

- The drive motors and the supply cables of the Curalizer Bruno must be free of external damage.
- The charger and the power supply unit are not medical devices and as such must be placed in separate rooms. To avoid electric shock, the Curalizer Bruno must not be operated using a power supply unit.
- To operate the Curalizer Bruno, only the batteries intended for this purpose may be used.
-

The Curalizer Bruno may only be operated with the batteries supplied or with batteries approved by the manufacturer.
The batteries may only be charged in the charging station ZLA-142221 incl. mains adapter provided. Otherwise there is a risk of fire or electric shock.

5.5 Product life

The expected technical product life is set by the manufacturer at 10 years, provided the intended use and safety instructions are observed. Daily use provides for 10 applications on 5 consecutive days followed by 2 rest days. It is recommended to limit one application to 15 minutes.

6. Height adjustment

The Curalizer is equipped with a height adjustment (see Fig. 4) independent of the position of the backrest. The seat and back unit, including the calf pad, is raised or lowered. This ensures the adjustment of an optimal seat height for the patient or working height for the medical staff.

With the Curalizer Bruno, the electromotive height adjustment is operated by means of a hand switch (see fig. 6 on page 7).

Abb. 4: Höhenverstellung

The Curalizer Arne has a hydromechanical height adjustment, which is controlled by pressing down one of the foot levers located on either side between the front and rear wheels (see Fig. 4). The lowering in turn is effected by lifting the foot lever.

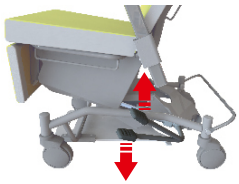


Fig. 5: Hydromechanical height adjustment

7. Tilt adjustment

The backrest and the seat are tilted via a new type of simultaneous mechanism. For physiologically correct sitting, the seat and backrest are slightly tilted backwards. When adjusted to the rest position, the seat and backrest are simultaneously tilted backwards, opening the angle between the seat and backrest. The simultaneous progression prevents the patient from slipping out of the Curalizer and at the same time leads to a relaxed posture.
To assist standing up, the backrest can be raised forward to a vertical position (see Fig. 5). This makes it easier for the patient to stand up according to kinaesthetic principles.

Fig. 6: Seat inclination

8. Hand switch*

*only with Curalizer Bruno

Power+ opt.

v1 - Raise backrest
2 - Lowering the backrest
3 - Raise height adjustment
4 - Lower height adjustment

The tilt of the backrest and seat, as well as the adjustment of the seat height, is carried out by means of two electric motors.
Operation is via a hand control with two rows of buttons. The upper row of buttons controls the inclination of the backrest, the lower row controls the height adjustment (see Fig. 7).

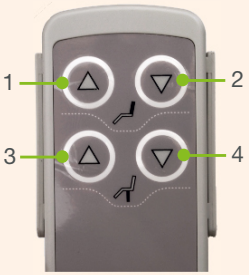


Fig. 7: Hand switch

9. Main switch*

*only with Curalizer Bruno

Power+ opt.

Behind the backrest is the main switch with which all drives of the Curalizer can be switched off by pressing the switch button. The Curalizer can be switched on again by turning the switch knob clockwise according to the symbols on the switch knob.

10. Transfer

A barrier-free transfer of patients who are mobilised over the edge of the bed is possible in a sitting position by swinging the armrests upwards. The Curalizer is positioned next to the bed, the armrest is swivelled upwards and the patient is then transferred to the Curalizer.

11. Removable headboard

The head section is removable to allow access to the back of the head and neck of a person being cared for. To remove the head section, it is pulled upwards (see fig. 8). To attach it, the two guide pins are inserted into the guides provided and the entire head section is pushed towards the back cushion.

Fig. 8: Removable headboard

12. Armrests

The armrests provide support for the patient without limiting the seat width. For seated transfer or side sitting, it is possible to swivel the armrests backwards individually (see Fig. 9). The armrests are secured against unwanted swivelling upwards with an automatic lock in the forward swivelled position. The lock is released by pressing the armrest at the joint towards the seat and swivelling it backwards in the pressed position. The armrests of the Curalizer are height-adjustable in five locking positions. The armrests can be pulled up to adjust the height. To reduce the height, pull the locking pin (see Fig. 10) and lower the armrest to the desired height. For safe use of the armrests, make sure that the locking pin is fully engaged.

Fig. 9:
Armrest swivelled upwards

Fig. 10:
Locking pin for height adjustment of the armrests

13. Calf support

Below the seat, at its front edge, there is a calf pad. If the patient supports his legs downwards on the footrest, the vertical calf pad protects against bumping into moving parts under the seat. To raise the legs, the calf pad is gripped centrally at the lower edge and pulled forward until the calf support locks automatically with a clicking sound. As it is pulled forward, the pad rotates to provide a comfortable leg rest for the patient. The size and angle to the seat are such that pressure points are avoided and the patient's heels are exposed. For insertion, the release bar located behind the pad (see Fig. 11) must be pulled towards the pad.
The calf support can now be pushed in easily. For the patient to get up from the chair, the calf pad must be fully pushed in and be under the seat. Then the feet of the person to be mobilised can be brought so far backwards that it is possible to stand up according to kinaesthetic aspects.

Fig. 11: Calf support

14. Footstep

The footrest under the Curalizer can be easily pushed out by the operator with his foot (see Fig. 12).
This footrest remains suspended as long as it is only loaded with the weight of the patient's legs (up to about 40 kg). As soon as the patient stands up, the footrest lowers safely to the floor, preventing it from rolling away and thus providing additional safety.
The adjustment to the lower leg length of the patient is done by changing the height of the seat. If the footrest is not needed, it can be stored under the Curalizer.

Fig. 12: Footstep

15. Driving and braking

The central brake lever (see fig. 13) operates both the directional roller and the brakes. For straight travel, the directional roller at the front right can be locked by lifting the central brake lever.
Pushing down the central brake lever locks the two rear rollers and the front right roller. The central, horizontal position of the central brake lever causes freewheeling and free pivoting of all wheels.

Fig. 13: Brake lever

ATTENTION!
To prevent unintentional rolling away, the parked Curalizer must always be braked.

16. Battery change

***only with Curalizer Bruno**

Power+

All functions of the Curalizer Bruno are powered by a rechargeable battery. An LED indicator light on the battery holder (see Fig. 14 shows the current charge status:

- green: sufficient charge - battery full
- yellow, a short beep sounds when a button is pressed. sounds: Charge is running low, recharge the battery.
- red, a repeating signal tone sounds: low charge. Charge the battery before using the Curalizer Bruno.

Fig. 14:
Battery control light

ATTENTION!

The weight of the battery is up to 5 kg, depending on the type of battery. When removing the battery, make sure that it does not fall down when detaching it.

The battery is freely accessible behind the backrest. To change the batteries, the backrest should be moved to a vertical position and the parking brake applied. To release the battery, pull it to the left with a slight jerk and then lift it off the backrest (see Fig. 15). To insert the charged battery, proceed in reverse order. To charge the battery, insert it into the charging station. To insert the battery into the charging station, proceed as described for the battery holder on the Curalizer Bruno (see Fig. 16). Please also observe the general safety instructions (chapter 5.4). Preferably, the charging station should be mounted vertically on a wall (see Fig. 17) so that the battery is inserted into the charging station from above for charging.

Fig. 15:
Removing the battery

Fig. 16:
Insert battery

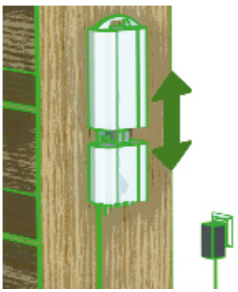


Fig. 17:
Charging station with wall bracket

INFORMATION

Depending on the battery type, the battery must be replaced regularly. If the battery performance drops noticeably, contact your customer advisor or the manufacturer.

17. Product care note

The Curalizer is maintenance-free. To maintain the value and serviceability, professional product care of the Curalizer is recommended within 24 months. Instructions for product care and a manual for checking the safety of the unit are available from the manufacturer. Due to the powder coating and chromium-plated components, the Curalizer has corrosion protection. Damage to the paint must be repaired immediately to maintain the value and safety.

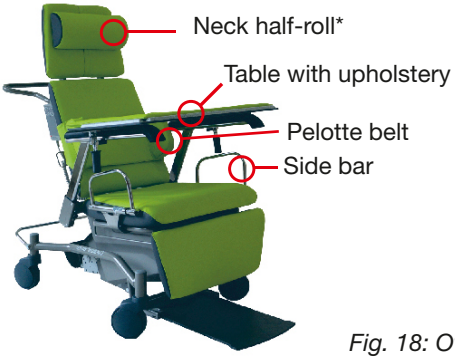
18. Reprocessing

Cleaning and disinfection

Before starting cleaning work, switch off the Curalizer by pressing the main switch and apply the central brake. It is recommended that the surfaces be wiped down with a damp cloth using household and commercially available, non-abrasive, neutral cleaning agents. Disinfectants that are gentle on the material can be used for disinfection. The application instructions and exposure times of the disinfectant used must be observed.
An overview of recommended disinfectants listed by the Robert Koch Institute is available at: https://rehamedi.de/service/#reinigen.
The pads are attached with Velcro and can therefore be removed without tools. The calf pad can be swivelled upwards for easy cleaning and disinfection. The Curalizer is not suitable for machine cleaning.

Disinfectant list for download

19. Recommendable equipment



** Included in delivery*

Fig. 18: Overview of recommended equipment

Neck pillow

The neck cushion is height-adjustable and has additional padding on the sides (see Fig. 19).

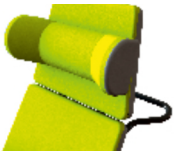


Fig. 19: Neck pillow

Clampable table

The table has rounded crumbling edges and an insensitive surface that can be disinfected by wiping. It is placed on the armrests at an appropriate distance from the body. Under the table there are locking levers on the right and left that audibly snap into place when light downward pressure is applied (see Fig. 20). To release the lock, the handles are moved upwards again.

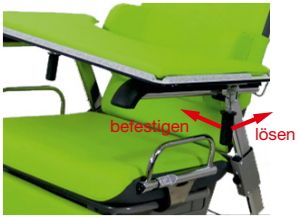


Fig. 20: Fastening the table

Pelotte belt

The pad belt (see Fig. 21) supports the lateral hold of the upper body. There are brackets on both sides of the back for attaching the pelotte belt.

Fig. 21: Pelotte belt

Side bar

Side bars can be attached to both sides of the seat (see Fig. 22). They offer the patient lateral support in the leg area and facilitate the use of additional positioning aids. For unhindered lateral transfer, the side bars can be lowered after actuating a pull catch. The side bars are mounted at the factory, cannot be retrofitted and cannot be combined with standard rails.

Fig. 22: Side bracket

Infusion stand

The infusion stand (see fig. 23) is attached in one of the rear wheel sockets. The cover cap is pulled out of the wheel socket and the holder of the infusion stand is inserted into the socket. The infusion stand is then attached using the star handle.

Fig. 23: Infusion stand

ATTENTION!

When using the Curalizer, the infusion stand must be swivelled outwards. Contact between the Curalizer and the infusion stand during adjustment, especially of the backrest, can damage parts of the stand or the Curalizer.

When transporting the Curalizer, the infusion stand must be swivelled in. Otherwise, parts of the stand may be damaged when passing through narrow places, e.g. door frames. Pushing, pulling and pushing on the infusion stand to transport or slow down the Curalizer will inevitably damage parts of the stand. Manoeuvring the Curalizer with the infusion stand is not permitted.

21. Warranty

The warranty period for the Curalizer including the additional equipment is 24 months from the date of delivery.

Excluded from warranty claims are:
- Wear parts (e.g. armrest pads, locking screws)
- Damage due to non-observance of these instructions for use
- Damage due to unauthorised modifications to the Curalizer and accessories.
- Damage caused by unauthorised combination with other products
- Damage due to product maintenance, disinfection, repair or overhaul as a result of failure to follow the instructions provided for this purpose.
- Patient restraint pads and straps
- Cushions

22. Disposal

The transport packaging can be recycled and sent to the local recycling centre. The Curalizer can be returned free of charge to the manufacturer for professional
free of charge.

23. Technical data

Standard width:
Seat width .....56 cm
Total width .....74 cm
smooth running wheels .....Ø 150 mm
tare weight.....ca. 64 kg
Maximum permissible patient weight.....230 kg

Widened version:
Seat width .....**70 cm**
Total width .....**80 cm**

Interchangeable battery system 24 V / max. 5.5 Ah - depending on battery type

Charging station type ZLA-142221, protection class according to DIN EN 61140: protection class III / protection by extra-low voltage (SELV), internal power supply, no mains connection

Application type according to IEC 60601-1: no application part

23.1 IP protection classes and temperature ranges

***only with Curalizer Bruno**

Component	IP protection class	Operating temperature range	Storage temperature range
Total product Curalizer Bruno	IPX4	+5°C to +40°C	+5°C to +40°C
Hand switch Limoss	IP44	No temperature restrictions Spiral cable: 1.3 m; maximum plug-in 2.5 m	
Linear actuator Limoss	IP66	+5°C to +40°C	+5°C to +40°C
Pb-Gel-Akku (FIAMM FG20451) Ewellix	IPX4	-20°C to +50°C	The cooler the better, faster capacity loss at higher temperatures, more frequent recharging is then necessary
Performance+ Akku (Howell Energy HW-4F5)	IPX4	Charging: 0°C to +45°C Discharge: -20°C to +60°C	-5°C to 35°C
Charging station ZLA-142221	IPX4	+10 to +40 °C	+10 to +40 °C
Mains adapter intai IN3600400	- / Schutzklasse II	-29 to +45.5 ℃	-29 to +45.5 ℃

Notizen

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developed. designed. produced.
made in Germany

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