User Manual

Tilt table models

Dear customer,

Congratulations on purchasing a product of outstanding quality.
Use of the best materials from renowned suppliers guarantees years of trouble-free operation, provided the device is handled correctly and as intended in accordance with the conditions described in the user manual.
In the unlikely event you need to make a claim, please contact us.
We welcome suggestions from the users of our products.

Contents

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Subject to changes in materials and construction as a result of technical progress.

This product is not approved for the American market. Distribution and use of the product in these markets, including through third parties, is prohibited by the manufacturer.

1. Safety information

1.1 Applied symbols

Safety instructions and key sections in this user manual are marked with the exclamation mark symbol on the left. Please pay particular attention to these instructions and sections.

Symbols used on the device, depending on the respective equipment:

Observe instructions for use:

Risk of injury due to being pinched or crushed:

Caution, potential hazard:

Connection for potential equalisation according to DIN 42801:

1.2 Applied standards

This device has been designed and manufactured in accordance with national and international regulations. This ensures a very high level of equipment safety.
The models described here comply with the following regulations and directives:

- Regulation (EU) 2017/745
- DIN EN IEC 60601-1
- DIN EN ISO 14971
- Pre standard DIN VDE V 0750-2-52-2 (VDE V 0750-2-52-2):2021-10 partly based on
- DIN EN IEC 62353
- DIN EN ISO 10993-5/-10
- DGUV Regulation 3

This device is a Class 1 medical device according to Regulation (EU) 2017/745 (MDR).

1.3 Safety information

This section contains a summary of the most important safety information.

Correct operation of the device is essential for safe operation. Therefore, please familiarise yourself with the contents of these instructions for use before using the device. We recommend that you keep these instructions for use near the device for future reference.
The device may only be used by authorised, instructed and competent persons who are sufficiently familiar with its adjustment mechanism or have read and understood the operating manual fully. The manufacturer cannot be held responsible for damage caused by or involving unauthorised persons. No third-party devices may be installed without consultation with us or brought in the direction of movement of the table in such a way that a possible hazard potential arises.

The user must ensure that the device is not accessible to unauthorised persons or cannot be operated by unauthorised persons even when left unattended.
When leaving the device, it should be secured in such a way that unauthorised adjustment is impossible.

Important: Never leave the device unattended or accessible to third parties when it is ready for operation.

Keep a sufficient safety distance to the device during all adjustment procedures. Special attention must be paid to the arms, hands, legs and feet of the user and the patient - RISK OF CRUSHING!

Make sure that there are no objects located directly around or above / underneath the device!

1.4 Intended purpose

The tilt table is used for the ideal positioning of patients for the purpose of curative and disease treatment, examination, massage and health therapy.
Table operation and patient positioning on the table may only be performed by professionally trained persons who have been instructed in its use or who, through experience with other similar medical devices, have knowledge of its proper use, taking into account possible hazards.
The device must only be moved within the room for cleaning or patient access. The device must not be used for transporting the patient. This device has been developed exclusively for use indoors and in normal ambient conditions and can be used in the following areas: laboratories, medical practices, examination and treatment rooms, hospitals, clinics, physiotherapy practices, occupational therapy centres and doctors' surgeries. This table is not classed as surgical furniture and must, therefore, not be used for surgical purposes. Observe the prescribed duty cycle of the motors (see section 4.2). The expected service life is 10 years or 100,000 drive cycles (double stroke = 1x up and down).

1.5 Information on setup and use

When packed, the device may be exposed to the following environmental conditions for approx. 3 months:

Transport/Storage temperature: -20° to +50°C
Operating temperature: +10° to +40°C
Relative humidity: 30% to 75%
Air pressure: 800hPa to 1060hPa

When transporting the device in a vehicle, it must be secured properly against moving. To do so, lock the castors and ensure further safety measures.

When setting up the device, do not lift it at the head part, as this may damage the head part and/or the release mechanism.
Hold and lift the table on the left and right-hand side of the underframe. The table must stand securely on its castors on a level, flat and solid surface. Before use, activate the brakes on the castors and make sure they are working properly.

When transporting the table, take hold of the underframe, NOT the upper frame.

1.6 Commissioning

Caution:	**Necessary room height models* 90E, 900E:**	**2150 mm**
	Necessary room height models* 2090E, 2095E, 2900E:	**2400 mm**

* For the model designation, see section 1.8

The device is ready for use upon delivery.
Remove the power cable from the film packaging on the underframe of the table and connect it properly to a permanently installed mains socket. When routing the power cable, make sure the cable cannot be crushed, rolled over or otherwise damaged.

Lock the castors. As the operator, carry out a thorough and precise function check once the device has been set up. Prior to commissioning, clean the device and remove any contamination from transport. Make sure that no connecting cables from the hand or foot switch to the motor are trapped in the mechanism and thus damaged. Operation in potentially explosive atmospheres is not permitted.

Installation instructions: In order to exclude possible jamming / crushing between the device or one of its parts and an object, no objects must be located in the movement area of the device.

1.7 Safety notices

This table may only be used for its intended purpose. Any other use is strictly prohibited and possibly dangerous. The manufacturer cannot be held responsible for damage caused by improper use.
Patients may only be positioned in preparation for treatment/examination by professionally trained persons.
Please note: This table is not classed as surgical furniture.

The table may only be climbed on when the lying surface is completely horizontal.

Prior to and when adjusting the height of the table electrically, make sure that no persons or objects are located in the adjustment range of the table and that nobody has their hands on the underframe.

The following basically applies: Never reach into or under the frame of the table when adjusting the height electrically. Adjustment can result in injury if the user does not pay due care and attention. Therefore, take great care when performing this procedure.

When adjusting the upholstery parts, make sure that no persons or objects are in the adjustment range. Make sure that no persons reach under the upholstery part or lean on the underframe.

Important for the user: When adjusting the upholstery parts, do not reach under the spacers located beneath the upholstery parts.

Always use both hands when adjusting the lying surface elements: Use one hand to operate the adjustment mechanism and the other hand for the lying surface adjustment.

The lying surfaces and the underframe are not anti-static as standard.
Our products are not intended for use in wet rooms and must under no circumstances be cleaned using so-called bed washers. This would irreparably destroy the product.

The head part, armrests and attachment parts are only intended to support the patient and must not be used for sitting.

Always lock all the castors before using the table.

Do not put a damaged device into operation.

Disconnect the device from the mains (power supply) in the event of a fault or during maintenance work.
To disconnect, be sure to grasp the plug, not the power cable.

This device must not be modified without the express permission of the manufacturer.

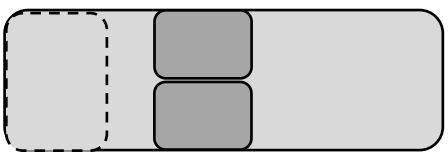
Persons who are not familiar with the use of the table or who do not have knowledge of its proper use through experience with other similar medical devices must not be left unattended with the table.

When the table is ready for use, it is forbidden to stay under the table or its parts.

Do not stand on the foot switch rail (optional).

1.8 Entrance area

The following pictures show, depending on the number and adjustment of the upholstery parts, the table's entrance area. This is characterized by a dark grey surface. The entrance area represents the area in which a patient / person can sit down or stand up when used as intended.



head part (option) *lying surface*

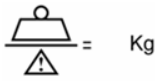
Mod. 900E, 2900E, 90E, 2090E, 2095E

1.9 Model designation and type labelling

The exact model designation depends on the choice of frame colour:

-00 white powder coated (RAL 9010);
-03 white aluminium powder coated (RAL 9006);
-04 grey aluminium powder coated (RAL 9007)

The type plate is attached to the underframe on one long side of the table. It provides information about key table data. The following symbols are listed there (by way of example), their meanings are:

 Read the operating manual	 Serial no.	 Applied part Type B
 Caution, potential hazard	 Max. load capacity	 CE mark
 Date of manufacture	 Product may only be used in dry rooms	 Do not dispose of with household waste
 Address of manufacturer	 Protective insulation, protection class II	

1.10 Meaning of the serial number

The serial no. is located on the type plate or shown separately next to the type plate of the table. This number is unique and firmly linked to this specific individual product. It enables us to identify this table model and trace back assemblies/safety-relevant components at any time.
Please always state this serial number when enquiring about spare parts.

2. Operating manual

2.1 Table design

When designing the table frames, special emphasis was placed on functional and operational safety. The number of possible pinching points has thus been minimised, while remaining ones have been covered or protected with spacers to prevent injury, thus ensuring safe and yet simple operation. Nevertheless, necessary caution must always be exercised when using the table.

The models 90E and 900E consist of the assemblies: underframe, upper frame and upholstery. The height-adjustable models 2090E, 2095E and 2900E consist of the assemblies: underframe, scissor section, middle frame, upper frame and upholstery. Depending on the respective version, these assemblies can feature further attachment parts. The surfaces of the welded design are plastic coated. The lifting motor for height adjustment is located between the scissor section and the underframe, which guarantees very high power transmission even in the lowest adjustment range. By retracting or extending the lifting tube of the motor, the scissors are pushed apart or together, thus enabling height adjustment of the lying surface. The electric motor for the tilt adjustment is installed between the middle frame and the upper frame (with models 90E and 900E between the underframe and the upper frame). The entire lying surface is adjusted by extending the lifting tube. The electrical adjustment system does not pose a hazard to the health and safety of the user or the patient when used as intended. The lifting motor is activated by a low control voltage.

2.2 Height adjustment

Height adjustment (all models with electromotive height adjustment)
To adjust the height, the enclosed foot switch (optionally also hand switch) is operated according to the marking. Beforehand, brief activation (double tap) must take place via the foot switch (or the hand switch). Please refer to section 7. The table is lifted or lowered.

Note on operation
The electric motor is to be operated in intermittent duty mode. This means that a maximum duty cycle of 25 s must not be exceeded. Before switching the motor back on, an interruption time of at least 400 s must be observed. If the maximum duty cycle is exceeded, an internal thermal switch (protective temperature limiter) in the motor interrupts the power supply to the actuator. After the electric motor has cooled down, the thermal switch automatically reconnects the power supply to the actuator.

2.3 Tilt/Inclination adjustment of the lying surface

To tilt the lying surface, operate the hand switch according to the marking. Brief activation (double tap) must take place beforehand. Please refer to section 7. The lying surface is inclined.
Once the desired tilt position has been reached, let go of the hand switch.

Caution: Ensure that no person is in the tilting range of the lying surface.

Caution: For the vertical position of the lying surface, observe the respective room height and swivel clearance!

Caution: For the safety of the patient, the operating switch for the tilt function must not be located within the patient's range.

Caution: Before tilting, the patient must be secured with safety belts.
Safety belts are not included in the scope of delivery and must be ordered as an optional extra.

2.4 Head part adjustment

Despite the very robust and strong design, a head part must not be used for sitting!

Upward head part adjustment (in positive direction) using a clamping rod (optional)
Adjustment takes place using a clamping rod. The head part can thus be adjusted steplessly upwards (positive direction). To release, turn the lateral clamping lever and hold the head part at the same time. Once the desired head part inclination has been adjusted, tighten the clamping lever to fix the head part in place.

Upward head part adjustment (in positive direction) using a gas spring (optional)
With model 2095E, upward head part adjustment (in positive direction) using a gas spring is standard.
With this option, the push-in device for the extension bar is omitted. The head part is adjusted using a gas spring. To operate, press the release lever, which is located at the end of the head part underneath the upholstery part, in the direction of the upholstered surface. The head part is lifted slowly to the positive end position. To lower, press down the head part and operate the release lever at the same time. Once the desired position has been reached, let go of the release lever.
Optionally, the head part (not model 2095E) can also be adjusted downwards (negative direction).

2.5 Additional equipment

Manual foot support adjustment
The foot support is inserted into a push-in device at the foot end of the table and fixed in place with two knurled screws. To release, turn both knurled screws and pull out the foot support. The foot support is fixed in place again by tightening the knurled screws. The foot support can be pulled out fully and removed.

Electromotive foot support adjustment (optional)
With the "electromotive adjustable foot support" option, inclination adjustment of the foot support is enabled by an additional electric motor. This electric motor is controlled by its own hand switch.

Individually lockable castors
The castors can be locked using the foot-operated brake on the castor housings. In this case, the castors can neither be moved nor rotated. To release, operate the brake on each castor again.
Please note: Standard castors are not electrically conductive = optional equipment. You can recognise conductive castors via the respective marking = yellow dot on the side of the running surface or a yellow ring.

This movability improves access to the patient during examination and treatment thanks to easy positioning within the room. Transporting patients is not considered as intended use.

Side rails for accessories
A chrome-plated rail for accessories is attached to each side of the lying surface.
To remove/add accessories, move the lying surface to a horizontal position. Then loosen the knurled screws on the side of the rails and pull the rails out to the side. Subsequently, the accessories can be placed on the rail and fixed in place as before. The accessories are also equipped with knurled screws to fix them in place at the desired position. Accessories can be ordered as optional extras from Dewert:

- Attachment clamps
- Safety belt
- Safety belt pad
- Work and rest desk with fastening clamps, also with inclination adjustment
- Angle gauges
- Handles (big and small)

Safety belt (optional)
The safety belt has two sections. Each section is attached to an attachment clamp. By moving the attachment clamps on the side rail, the belt can be adjusted as desired. By tightening or loosening the knurled screw, the attachment clamp can be fixed in place or moved. To close the belt, push both end pieces into each other until the buckle audibly clicks into place. Adjustment can be made according to the figure. To open, press the red button on the buckle and pull the belt halves apart.

Optional safety belts with hook-and-loop fastener are also available.

Safety belt

Belt pad (optional)
Place the belt pad under the belt, adjust the belt to fit and close it. Close the sewn-on pocket on the pad by folding it over so that the hook-and-loop fastener joins together.

Belt pad

Closed pocket

Work and rest desk (optional)
The work and rest desk consists of a frame with the ergonomically shaped retaining plate and two attachment clamps. These two parts must be pushed onto the side rails for accessories and fixed in place at the desired position. It is important that both parts are parallel to each other. The frame with the work and rest desk can now be pushed into the clamps and the fixing screws can be tightened. There are additional attachment clamps on the retaining guides to attach a safety belt.

Adjustable work and rest desk (optional)
The adjustable work and rest desk features the additional inclination adjustment option. To do so, release the clamping lever on the side and adjust the work and rest desk to the desired inclination. Then tighten the clamping lever again.

Handles, big and small (optional)
The big and small handles are used by the patient to hold on. They can be pushed onto the side rail and positioned individually. Ensure they are securely fixed in place by tightening the knurled screws.

Angle gauges (optional)
The angle gauges are screwed directly to the right and left of the upholstery frame on the head part side. They indicate the angle position of the lying surface. These are only approximate values and must not be used as a medical basis.

Mount for extension bars
In the middle of the short side at the head end there is a mount for an extension bar underneath the upholstered surface (the extension bar is optionally available). The inserted extension bar is fixed with a knurled screw. Please make sure that the component is not pulled out too far and that it is securely clamped.

Paper roll holder (optional)
The paper roll holder consists of a holding bar and angle mount brackets or retaining brackets. In addition to the stainless steel bar, the paper roll holding bar consists of a spring-loaded stainless steel sleeve featuring a round steel gripping disc at the end. To insert the holding bar, feed the guide cotter pin of the stainless steel bar into the rear hole of the angle mount bracket/retaining bracket. Then push the sleeve with the gripping disc against the spring force and feed the front guide cotter pin into the second hole. Then relieve the spring tension on the sleeve. To release the paper roll holder, proceed in the same way.

Armrest with clamps (optional)
The armrest with the fastening clamp is already pre-assembled. The clamp with the holding bar is pushed onto the side rail and fixed in place. Please make sure that the angled bracket of the holding bar points downwards. This is where the armrest is inserted and fixed in place with the toggle screw. The supplied belt is used to fix the arm on the armrest and can be individually adjusted using the hook-and-loop tape ends. By loosening the toggle screws, the armrest can be adjusted in height, rotated and swivelled.

2.6 Special features of model 2095E

For echocardiography treatment, the tilt table has a cut-out on the left-hand side in the upholstered surface. It can be closed with a cushion. The cushion can be pushed out from the bottom upwards (a slight amount of pressure is required). To close the cut-out, first place the cushion in the rear of the cut-out and then press it down into the upholstered surface (a slight amount of pressure is required). The lower side of the cut-out is not parallel to the upper side. There is a visible slant. The position of the cushion in the cut-out is thus clearly identifiable and there is no risk of it being accidentally pushed out. The cut-out has the following dimensions: Length 300 mm, depth 250 mm

Caution: Do not reach under the cushion or into the open cut-out during height adjustment. Always remove instruments/equipment from the cut-out area before adjusting the height.

Potential equalisation connector
A potential equalisation connector according to DIN 42801 is attached to the long side of the underframe on the left (side with the upholstery cut-out). This connection must be used if interference from electromagnetic radiation can be seen on the monitors during the examination, which could falsify the measured values. Despite compliance with the applicable EMC regulations, the use of highly sensitive examination equipment can cause this minimal radiation to become visible. Only use connectors that comply with DIN.
Through additional wiring of the individual assemblies, there is conductive contact between them.

The potential equalisation connector is marked with the symbol .

3. Additional accessories (for user-specific table configuration), in extracts

- Belt pad
- Attachment clamps
- Armrest with fastening clamp
- Angle gauges
- Safety belt
- Work and rest desk, rigid and adjustable
- Handles, big and small

4. Technical data

4.1 Individual models

Models	90E/900E	2090E/2900E	2095E
Max. length (mm)	1930	1930	1930
Width (mm)	700	700	700
Min. – max. height (mm)	/	590 - 910	620 - 940
Adjustment time, height (s)	/	31	31
Tilt range	-15° / + 85°	0° / + 85°	0° / +85°
Adjustment time, inclined position (s)	23	23	23
Weight (approx., depending on equipment) kg	100	140	150
Head part adjustment range (optionally using a clamping rod)	0° / +30°	0° / +30°	/
Head part adjustment range (optionally using a gas spring)	0° / +45°	0° / + 45°	0° / +45°
Head part adjustment range (optionally upwards/downwards)	-35° / +45°	-30° / +40°	/
Max. height (mm) (vertical lying surface)	2120**	2380**	2380**
Necessary room height (mm)	2150	2450	2450
Adjustable foot support electr. adjustable (optional)	-20° / +10°	-20° / +10°	-20° / +10°
Max. patient weight (kg)	180*	180*	180*

Technical data subject to change.

* With central load,
** Vertical upholstery, without accessories, e.g. extension bar

The motor is equipped with a thermal protective switch as standard. This causes the motor to cut out if the weight load is too extreme or the motor's duty cycle (DC: 25 s/400 s) is exceeded. The table should be ready for use again after a 15-minute rest period. There is, therefore, no risk of overloading the motor.

The mechanics of the tables have been designed with extensive safety margins in mind. The max. patient weight is provided with a 4-fold static safety factor, i.e. the design has been fully tested for a 4-fold load.

4.2 Technical data for electric motor

Manufacturer:	Hanning Elektro-Werke GmbH & Co, D-33813 Oerlinghausen
Type of motor:	SL 95
Type of actuator:	Brushless asynchronous industrial motor
Mode of operation:	Electromechanical linear motor with maintenance-free lifetime lubrication Intermittent duty – installed thermal switch Electronic activation with internal supply for the control element Duty cycle (DC): 25 s / 400 s i.e. move the table for max. 25 seconds under nominal load, then observe a break of at least 400 seconds.
Nominal voltage:	220 – 240 V, 1-50/60 Hz
Nominal output:	Models 90E, 900E: 850W Models 2090E, 2095E, 2900E: 1700W
Current consumption:	Models 90E, 900E: 3.7A Models 2090E, 2095E, 2900E: 5.0A
Protection class:	II (protective insulation), connecting cable without protective conductor
Protection rating:	IP X4 – resistant to water splashes,
Degree of protection:	B

The motor is maintenance free. The maximum sound power level is 52 dB (A).

When operated with sinusoidal alternating voltage, the motors used do not cause field or line-borne interference within the meaning of EN 50081, Part 1 and 2, nor can their function be impaired by electromagnetic influences within the meaning of EN 50082, Part 1 and 2.

5. Cleaning instructions

Upholstery covering
There are two different collections of upholstery covering to choose from:

- Skai Pandoria Plus (manufactured by Hornschuch/Continental in Germany)
- Skai Toronto EN (manufactured by Hornschuch/Continental in Germany)

For cleaning and disinfection, a selection of agents from various manufacturers has been tested for compatibility. Please refer to the separate enclosed sheet.

The table is equipped as standard with the **Dewert hygiene standards**, which enable optimal cleaning and disinfection:

- All undersides of the upholstery parts are coated with an upholstery covering and can thus be cleaned and disinfected
- Vent holes underneath the upholstery:
  For the homogeneous foam to recover quickly, a rapid exchange of air is necessary. To ensure this, there are individual vent points on the underside of the upholstery, which are hygienically sealed with special air compensation caps that assume a valve function.
- Easy hygiene due to an open design
- Optional: Upholstery covering Skai Toronto EN with staynu

Table frame cleaning
The plastic-coated table frame and the chrome-plated bars and levers can be cleaned with mild household cleaners, if necessary.

Do not use aggressive, abrasive or corrosive agents. Heavily soiled chrome-plated parts can be cleaned with a chrome polish (e.g. Sidol). After cleaning, dry the frame with a soft dry cloth.
Seal deep scratches and worn areas with suitable repair agents to prevent moisture penetration.

Important:
With gas springs (if present), wipe the piston rod with a soft cloth at regular intervals. This prevents dust from entering through the dust lip and preserves the service life of the unit.

Caution:
When cleaning, secure the table against unintentional lowering of the lying surface.
To do so, set all adjustable sections straight and disconnect the power plug from the mains socket.

The power plug must not come into contact with water or cleaning agents.

The electrical components must not display any external damage through which liquid could enter. Do not clean the table with water jets, a high-pressure cleaner or with a so-called bed washer. Only use moist cloths.

6. Maintenance and technical inspection

The device has been designed and manufactured in such a way that it will operate safely over a very long period of time if used as intended and in a correct manner. Depending on the conditions of use, place of use and care, the expected operating service life is up to 10 years or 100,000 drive cycles (double stroke = 1x up and down).

Regular maintenance procedures are required to ensure patient, user and product safety. They must be carried out every two years at the latest, with frequent use even after 1 year.
The maintenance procedures can be carried out by qualified personnel/instructed personnel.
The scope of maintenance includes, for example:

- Thorough visual inspection of all components, especially motor and switch with mains supply line
- Function check
- Check all swivel joints for completeness.
- Check proper fit of the screw connections, especially the screw connection of the optional roller system.
- Lubricate the swivel joints and operating levers slightly with low viscosity spray oil, if necessary.
- Lubricate the roller guides with a little bearing grease or similar using a brush, if necessary.

Insufficient lubrication is noticeable through noise development.
A checklist for maintenance/technical inspection can be found in the appendix.

In addition to maintenance in accordance with the legal requirements of DGUV Regulation 3 / IEC 62353, a technical inspection must be carried out every two years at the latest on tables with electromotive adjustment.
This technical inspection may only be carried out by authorised and trained specialists.
A checklist for maintenance/technical inspection can be found in the appendix.

Despite regular maintenance/technical inspection, the **user** is also responsible for patient safety and proper and reliable functioning. As the user, make sure that the table is in good working order prior to each use (visual inspection). In the event of any abnormalities, take the table out of service immediately and inform the operator.

Replace damaged or worn components immediately and do not use the table until it has been repaired.

The table complies with the safety regulations prescribed at the time it was placed on the market. Improper repairs and structural modifications (disassembly of original parts, installation of third-party parts, etc.) may result in hazards for patients and users. In the event of uncoordinated modifications to the table, the Declaration of Conformity loses its validity and the warranty shall become null and void.
We cannot be held liable for damages resulting from uncoordinated modifications.
Only original Dewert spare parts may be used.

All drive components must not be opened! Risk of electrocution!
Work on the electrical system may only be carried out by qualified and authorised personnel in compliance with all relevant provisions and safety regulations!

Foot and hand switches for adjusting the electric motor as well as gas springs are wearing parts whose function may be impaired over the years depending on the frequency of use. Both can be replaced without too much effort. Please request the corresponding installation diagram, if required.
Replacement parts can be obtained directly from Dewert.

7. Safety devices

Tables with electromotive adjustment must have an automatic device to deactivate the control elements when moving the table. Reactivation of the control elements must be designed in such a way that they cannot be triggered accidentally by patients, users or third parties.

The actuator of this table is equipped with an integrated safety device to protect against unauthorised/unintentional operation. This device goes into “sleep mode” 3 seconds after the last operation and can only be reactivated with a defined switching sequence, the so-called double tap.To “wake up” the actuator or the control unit, first press the desired direction of travel for approx. 1 second on the control element. After a short waiting time (1-2 seconds), press the desired direction of travel again and the actuator can be moved for a maximum of 30 seconds in this direction of travel.
If the switching cycle of the double-tap function is not observed, the actuator cannot be operated. After 30 seconds of operation in one direction of travel, the actuator switches off and goes into sleep mode. The actuator can still be operated for up to 3 seconds after the last operation to ensure fine adjustment. Within this time window, it is possible to move in each direction of travel again for a maximum of 30 seconds. The actuator always goes into “sleep mode” automatically 3 seconds after the last operation.

The lifting motor **(only for models 2090E, 2095E, 2900E)** is equipped with a **safety freewheeling clutch** as standard:
When lowering, the motor declutches automatically if an obstacle is encountered, and the flow of power is interrupted. In other words, the active tractive force of the motor no longer acts; instead, simply the weight of the upper part of the table is applied. In the event of unforeseen entrapment, the risk of injury is significantly limited.

8. Reporting obligation

All serious incidents occurring in connection with the product shall be reported to the manufacturer (**K.H. Dewert GmbH**) and to the **competent authority** of the Member State in which the user and/or the patient resides.

Member State	Competent authority	Web
Estonia	Health Board Terviseamet	https://www.terviseamet.ee/en
Finland	Fimea	https://www.fimea.fi/web/en
Iceland	Iceland Medicines Agency	https://www.ima.is/
Luxembourg	CNS	https://cns.public.lu/en
Malta	MCCAA	https://mccaa.org.mt/
Switzerland	Swissmedic	https://www.swissmedic.ch/swissmedic/de/home.html

Swiss authorised representative (CH-REP):

CH REP
CHRN-AR-20003216

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Bleichelistraße 22
9055 Bühler AR
+41 71 335 77 66
info@praximedico.ch

A serious incident is an incident that directly or indirectly had, could have had, or may have had any of the following consequences:

- death of a patient, user or other person,
- temporary or permanent serious deterioration of the state of health of a patient, user or other person,
- serious threat to public health.

9. Disposal

- **Packaging**

Safety notice: Pay attention to sharp edges and pointed objects during disposal!

The packaging materials produced are mainly:
- Cardboard/Paper
- Plastic
- Wood (when delivered on a pallet)

Please observe the local regulations for waste disposal and preferably recycle the materials.

As a manufacturer, we are licensed as a participant in the Dual System in accordance with the German Packaging Act (VerpackG) and therefore bear the disposal costs, meaning you can dispose of the packaging free of charge.

- **Product**

Safety notices:
- Pay attention to sharp edges and pointed objects!
- When transporting the table, only take hold of the underframe, **NOT** the upper frame.
- In order to prevent accidents later on, the no longer used product must be rendered unusable immediately, e.g. by disconnecting the power cable.

Please observe the local regulations for waste disposal and preferably recycle the materials.
Tables with electromotive height adjustment are subject to WEEE Directive 2012/19/EU. These old devices must be collected, recycled and disposed of in an environmentally sound manner. Use the return and collection systems available to you for this purpose.

10. Declaration of Conformity

EU Declaration of Conformity for medical devices

Manufacturer: **K.H. DEWERT GmbH**
Vollmestr. 7
D-33649 Bielefeld

SRN: **DE-MF-000005967**

Product: **Electromotive adjustable tilt table**

Model designation *:	90E, 900E, 2090E, 2095E, 2900E
Basic-UDI-DI:	**4063907KHDewertELiegenE4**
	Active medical device
Classification:	Class 1 medical device according to Annex VIII, Chapter III, rule 1 (No. 4.1) and rule 13 (No. 6.5) of Regulation (EU) 2017/745.

* The numerical codes -00, -03, -04 appended to the individual model designation only indicate the colour of the frame (-00 = white frame, -03= white aluminium frame, -04= grey aluminium frame).

Intended purpose:
The tilt table is used for the ideal positioning of patients for the purpose of curative and disease treatment, examination, massage and health therapy.
Table operation and patient positioning on the table may only be performed by professionally trained persons who have been instructed in its use or who, through experience with other similar medical devices, have knowledge of its proper use, taking into account possible hazards. The device must only be moved within the room for cleaning or patient access. The device must not be used for transporting the patient.
This device has been developed exclusively for use indoors and in normal ambient conditions and can be used in the following areas:
laboratories, medical practices, examination and treatment rooms, hospitals, clinics, physiotherapy practices, occupational therapy centres and doctors' surgeries.
This table is not classed as surgical furniture and must, therefore, not be used for surgical purposes.

complies with the relevant provisions of Regulation (EU) 2017/745, Article 19, Annex IV of 5 April 2017.

We hereby declare conformity with the aforesaid directive.
As the manufacturer, we bear sole responsibility for issuing this EU Declaration of Conformity

Mark:

CE

Bielefeld/Germany, 01 March 2023

K.H. DEWERT GmbH

Management

Checklist for maintenance/technical inspection
to IEC 62353 and DGUV Regulation 3

Device _____

Model designation _____

Manufacturer K.H. Dewert GmbH

Serial no. _____

Location _____

Responsible person _____

Date, inspector _____

Actuator designation _____

Inspections	OK	FAIL	Description of defects
Visual inspection			
Overall impression of the table OK?	☐	☐	
Labels, CE mark, type plate present?	☐	☐	
Manufacturer's operating manual available and accessible?	☐	☐	
Sufficient space available when carrying out all adjustment functions?	☐	☐	
Mechanical structure undamaged:	☐	☐	
Welds without obvious damage?	☐	☐	
Screw connections correct and complete?	☐	☐	
Upholstery undamaged?	☐	☐	
Upholstery attachment correct?	☐	☐	
All mechanical elements intact and complete?	☐	☐	
Electrical system and power cable undamaged?	☐	☐	
All switches and supply lines undamaged?	☐	☐	
Function check			
With electromotive adjustment:			
Move all motors with the foot switch or the hand switch to both limit positions until automatic switch-off to ensure that:			
* the table operates smoothly without any collisions or blockages	☐	☐	
* no cable/connection can be overstretched, crushed or otherwise damaged	☐	☐	
* the motors run without noticeable noise development	☐	☐	
	☐	☐	
* the end position switch-off of the actuators works properly	☐	☐	
Foot switch / hand switch / foot switch rails work(s) without interference	☐	☐	
Power cables and power plugs undamaged?	☐	☐	
Correct and safe routing of the power cable and connection?	☐	☐	
Checking the safety device: Double-tap function given?	☐	☐	
Freewheeling motor: Freewheeling is maintenance free			
With hydraulic height adjustment:			
Function given?	☐	☐	
Check by operating the pedals until the table reaches the uppermost position			
Continue to operate the pedals approx. 5-10 times (any air is pressed out of the system)			

	OK	FAIL	Description of defects
Height retained?			
Hydraulic pump leaking?			
Smooth lowering possible?			
Check by operating the pedals to lower the table			
Strong noise development?			
Wipe the piston rod with a cloth			
Lying surface adjustment functions:			
Metal ratchets - arrester - gas spring			
Metal ratchet inspection: Lifting the lying surface segment:			
Do the two metal ratchets engage properly and securely?			
Do they engage evenly?			
Is this ensured in every adjustment position?			
Arrester inspection: Lifting the lying surface segment:			
Is the segment held properly and securely at every height?			
Perform the test also with a load			
Is the function smooth without clamping?			
(= move the lying surface segment without fixing the clamping lever)			
Gas spring inspection: Lifting the lying surface segment:			
Does the gas spring respond when released?			
Is the segment held properly and securely at every height?			
Is the piston rod of the gas spring free of grease and not leaking?			
Clean the piston rod with a cloth			
Accessories:			
Accessories such as belts, belt pads, belt guides, paper roll holders, armrests, etc. undamaged, and is proper and secure fixing/function possible?			
All necessary toggle screws present?			
Possible movability:			
Castors undamaged, freewheeling given?			
Connection to frame undamaged?			
Re-tighten all screw connections (with central locking system, also the grub screws of switch levers)			
Safe braking effect?			
Check with locked brakes by pulling and pushing the table			
Central Movability			
Levers must be in contact with the frame, tighten the fastening screws			
Shift levers on the subframe must be centered in the groove			
Tighten the grub screws on the shift levers			
Structural inspection:			
Checking the scissor fittings: Use a wrench to check the six fixing screws of the scissors (remove the black caps for this purpose) and the hexagon socket head screws for a very tight fit			
Checking the side guard:			
Easy adjustment possible without clamping?			
Proper locking during setup/lowering?			
Laterally lowerable side guard:			
No adjustment possible without pulling the locking knob?			
Proper engagement in the end positions?			

Electrical testing

Leakage current measurement (protection class II, degree of protection B) (max. 0.1 mA permissible)	Measured value:		
Protective conductor measurement (protection class I, degree of protection B, telescopic column tables)			

Final assessment

Everything error free?			
Device put out of operation until it has been repaired?			

Comments

Place / Date / Signature of inspector

Next inspection: