Operating Instruction

LokoStation

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A. Welcome to WOODWAY

Congratulations on your newly-acquired WOODWAY slat-belt treadmill.

This operation manual provides you with useful information, so that:

- you will get to know your WOODWAY slat-belt treadmill properly and thus – by following all the safety instructions – make full use of its unique engineering features under all operating conditions;
- the system is guaranteed to remain perfectly operational through the careful performance of simple recommended maintenance procedures;
- you can get competent technical assistance quickly and easily in the event of a breakdown.

We wish you lots of success and enjoyment when using your new WOODWAY slat-belt treadmill.

B. Legal notice:

The information that appears in this operation manual is as complete, accurate and up-to-date as possible. Insofar as legal limits allow, we reject any liability for damages resulting from use of this operation manual. At most, we accept liability for intent and culpable negligence only.

The descriptions in this operation manual are based on the technical specifications of the slat-belt treadmill in question as of the date that the operation manual was written. We reserve the right to modify its contents without prior notice.

In an effort to sustain continuous improvement, especially relative to safety and quality, the manufacturer reserves the right to make technical modifications to the slat-belt treadmills without prior notice.

Therefore, this operation manual does not represent a binding description for this particular type of slat-belt treadmill.

Please observe the safety instructions immediately following the Table of Contents.

1. Table of Contents

2. Safety instructions

As with any electrical equipment, there are certain basic safety precautions that should be observed. These safety precautions are mainly for your own safety, but they also protect the treadmill from potential harm. Any intervention on the system other than those described in this manual should be performed only by the manufacturer or by their duly authorized service agent.

Please read this operation manual carefully and keep it in a safe place.

Installation

The treadmill must be installed on a solid, flat surface. The area behind the treadmill must have a distance of at least 2m wide and 1m long away from walls and furniture. When using the reverse direction option, the same distance applies.

Do not install the treadmill near a radiator, in front of an air conditioning exhaust vent or in a dusty or dirty area.

Do not install the treadmill in direct sunlight.

The treadmill must not come in contact with liquids. Do not use liquids of any kind near the treadmill, and never place containers with liquid on the treadmill.

Do not insert items of any kind into the spaces between the slats or into any other openings in the treadmill. This can cause injury and/or damage the treadmill. Do not lay items on the treadmill. In addition, keep hands, hair, loose clothing, towels, etc, away from all rotating and moving parts at all times.

Main power connection

The values of the mains supply connection must correspond to the values listed on the nameplate of the slat-belt treadmill.
Any modification of the input voltage should be performed only by WOODWAY or by their duly authorized service agent.

The treadmill must be connected to a properly grounded and adequately protected electrical socket using the power cable supplied with the system. It is advised that a Category C house security be used. The power supply should be free of voltage spikes and other faults.

The electrical socket must be situated near the treadmill and easily accessible.

The safety requirements have not been met if the treadmill is connected to an electrical socket without circuit breaker protection.

To isolate the system from the electrical supply completely, pull the electrical plug out of the socket.

When using an extension cable or a power strip (i.e. multiple socket), the maximum allowable power rating must not be exceeded.

The power cable must not be damaged. Do not place any items on the power cable, and lay it in such a way that no one can step on it or trip over it.

Replace any damaged cable immediately.

Pull the electrical plug out of the socket before cleaning the treadmill. For cleaning purposes, simply use a light, damp cloth, possibly with a small amount of commercially available dishwashing detergent.

Use / operation

A treadmill that is electrically connected and in operation must never be left unattended. Before leaving the system, the system must be switched off.

Children under 12 years of age must not be allowed near the treadmill without adult supervision.

Children and adolescents under 16 years of age must not use the treadmill without adult supervision.

Physically and/or mentally handicapped individuals, as well as people being examined, tested or treated, therapeutically or otherwise, should use the treadmill only under the supervision of trained specialists.

Appropriate footwear must always be worn, e.g. shoes with rubber soles or other non-slip soles. High-heeled shoes and leather-soled shoes are not appropriate. Ensure that no objects, e.g. small stones, are lodged in between the treads of the shoe soles.

The treadmill should be used for therapeutic and/or athletic purposes only. In particular, the treadmill should not be used as a conveyor belt or similar device.

Transportation

Any damage that occurs during movement or relocation of the treadmill, which results from failure to observe transportation procedures or from use of improper packaging materials, will not be covered under warranty.

Instruction and warning symbols

Please observe all warnings and instructions that either appear on the product itself or are supplied with it. At particularly important points, warnings in the operation manual are highlighted with the following symbol.

Caution – Possible danger of injury or damage.

This sign indicates a potential source of danger or points out a possible source of damage. In order to avoid injury or damage, please follow all instructions.

Service / maintenance

If the system is damaged, switch off the power and pull the power cable plug from the electrical socket. Arrange for immediate repair.

Service work that goes beyond the routine maintenance described in this operation manual must be performed only by the manufacturer or their duly authorized service agents, never by the operator. We are not liable for damages resulting from unauthorized service or from improper maintenance performed by unauthorized persons.

Perform maintenance on the treadmill only as described in the operation manual under “Chapter 7 – Maintenance”. Opening the housing can lead to electrical shock and other damage or injury. It is absolutely essential to pull the power cable plug out of the electrical socket before opening the housing. Modifications to the treadmill other than those described in the operation manual can cause damage and thereby necessitate repairs not covered under warranty.

Before turning to the manufacturer or one of their authorized service agents for help, please refer to the instructions in “Chapter 8 – Troubleshooting”. Even during the warranty period, service interventions can be invoiced when the fault or the deficiency was caused by the customer himself or when he should have been able to resolve the fault or the deficiency by following the instructions in “Chapter 8 – Troubleshooting”.

Consumables / accessories

In order to ensure smooth operation of the treadmill, we recommend using only the original equipment consumables (lubricants) supplied by or available from us, and only the accessories that we offer (e.g. Polar transmitter chest strap). We are not liable for any damage resulting from use of non-original equipment consumables or non-original equipment accessories where use of original equipment consumables and/or accessories would have prevented that damage.

Original equipment accessories and original equipment consumables are available from the manufacturer or from one of their duly authorized service agents.

3. Installation

Your WOODWAY slat-belt treadmill will either be delivered to you fully assembled or else it will be assembled at your location by our delivery agent. Please check the slat-belt treadmill for transportation damage immediately upon receipt of delivery and report any damage immediately to the delivery agent and/or to your sales representative.

3.1 Location

The slat-belt treadmill must be installed on a flat floor sufficiently capable of bearing a load.

Due to the moving parts on the underside of the slat-belt treadmill, it should not be placed on higher-than-average pile floor covering. If necessary, a floor mat can be laid underneath. This will reduce the accumulation of lint inside the slat-belt treadmill and it will also protect the floor covering from undue wear.

Due to the weight of the LokoStation with treadmill, (ca. 1,764lbs.) the ceiling, or the floor, should have the necessary support capability or the treadmill should be put in a place where there are positioning points for adequate support. The advice of a structural engineer is recommended.

3.2 Main power connection

Please observe the safety instructions at the beginning of the operation manual

Connect the power cable to the female connector at the lower right hand side of the slat-belt treadmill and insert the other end into a properly grounded and adequately protected electrical socket.

At the highest speed, the maximum power consumption is 6 A at 230 V AC.

3.3 Ambient conditions for standard operation

Temperature:	+10° C to +40° C
Relative humidity:	15% to 85% non condensing
Air pressure:	700 hPa to 1060 hPa

Operation allowed in enclosed and/or roofed-over spaces only.

4. Transportation

Caution – Possible danger of injury or damage.

The treadmill is heavy and can cause injury when raised using improper lifting techniques. Panels, rails and control panel should never be used for lifting or pulling the system.

If the system must be repositioned, use the lifting bars that were delivered with it. Insert them into the openings designed for this purpose located at the four corners of the system (refer to the drawing in *"Chapter 5 – Introduction to the LokoStation PPS*").

If a flat trolley is available, position it underneath the treadmill and then move the treadmill to the desired new location.

If the treadmill must be disassembled, the panels and rails can be removed for ease of transportation (refer to "*Chapter 8 - Troubleshooting*").

During transportation and for storage up to 15 weeks, the following storage conditions apply:

Temperature:	+10° C to +70° C
Relative humidity:	15% to 85% none condensing
Air pressure:	700hPa to 1060hPa

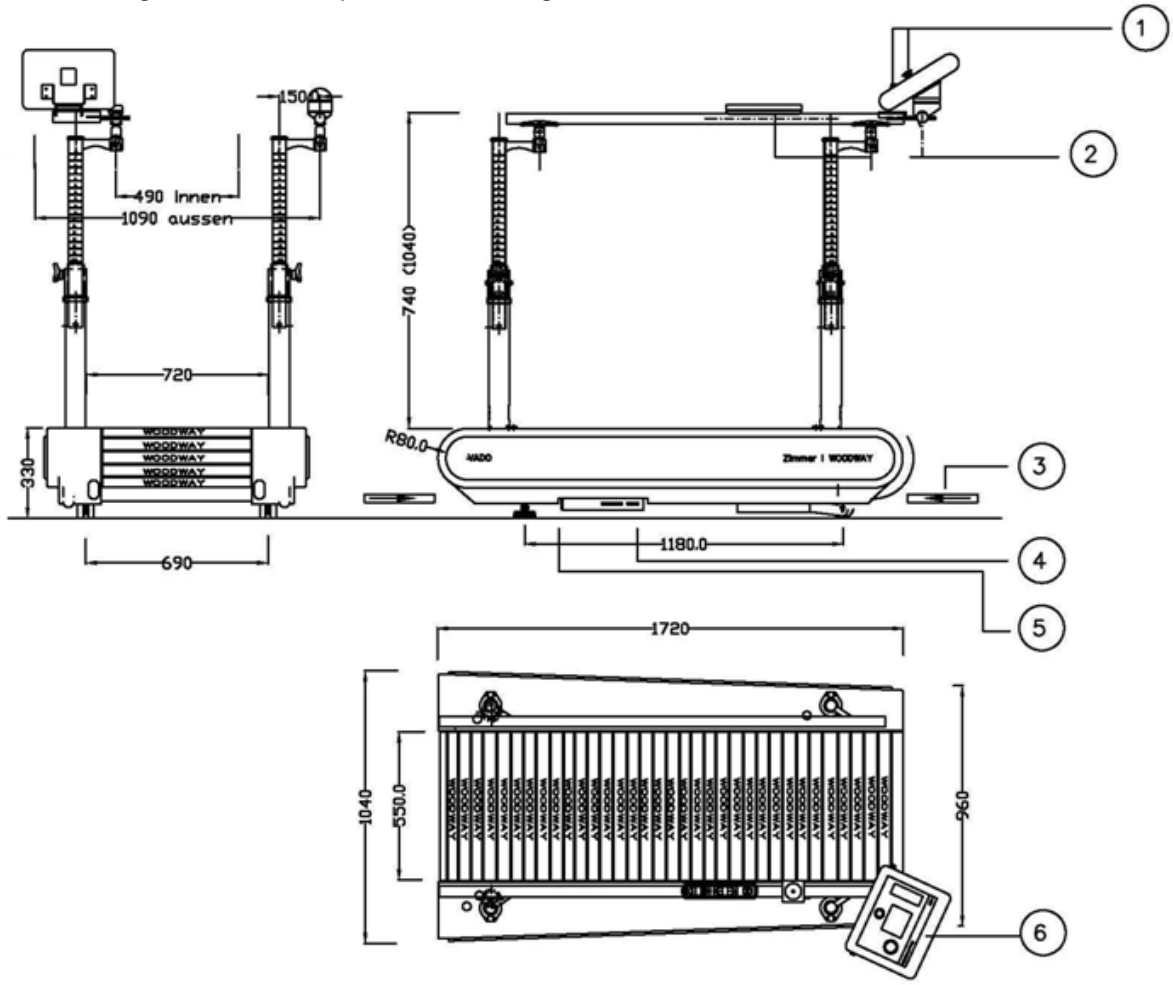
Storage allowed in enclosed and/or roofed-over spaces only.

Prior to starting up the slat-belt treadmill, it should be acclimatized for at least three hours at the point of delivery or in a room with ambient conditions like those of the room where it will be installed (refer to "Chapter 3.1 - Installation").

5. Introduction LokoStation PPS

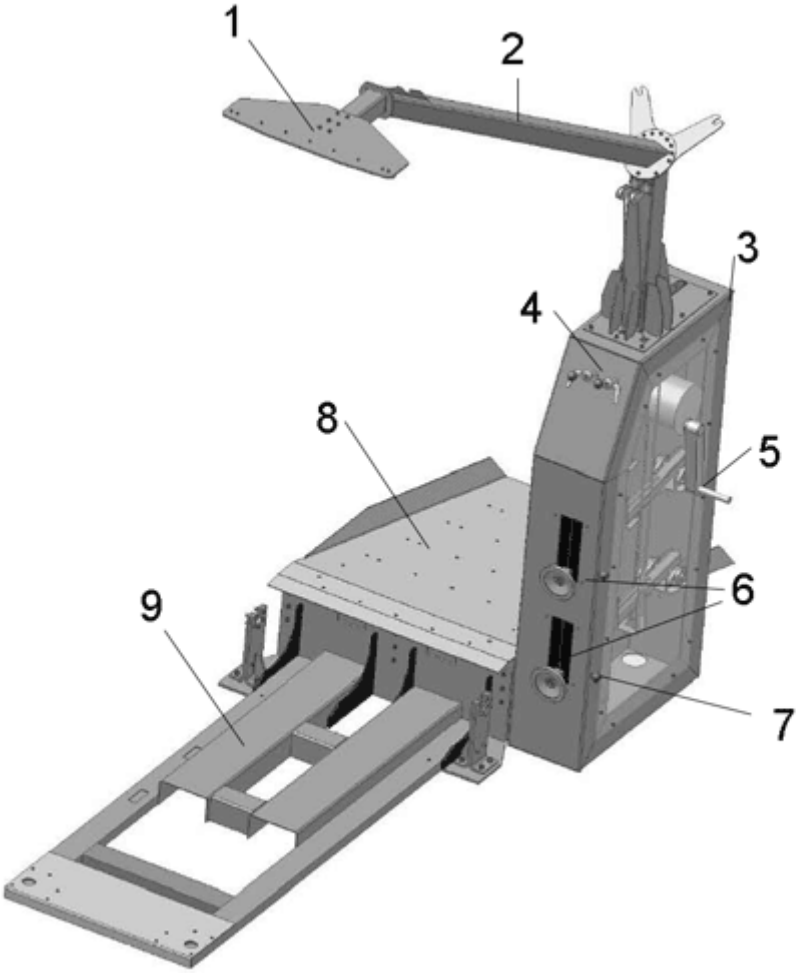
5.1 Description

Model range PPS description and designations



1 Emergency Stop pull wire magnet
2 Handrail-mounted keypad
3 Lifting bar (insertion into the hole for which it was designed)
4 RS 232 / USB interface
5 ON/OFF main power switch, Power supply socket connector, Fuse
6 WUS or Data Monitor
7 Emergency Stop Button

Model range LokoStation description and designations



1 Wing One Arm Construction
2 One Arm Construction
3 Body Static/Dynamic Body Weight Support
4 Rope Length Adjustment (Variations possible)
5 Central Winch (Static Mode)
6 Crank Dynamic Body Weight Support
7 Security Spikes for Dynamic Body Weight Support Mode
8 Wheel Chair Ramp
9 Treadmill Support Frame

5.2 Technical Data

Equipment Therapy Systems

WOODWAY LokoStation PPS	**PPS 55**	**PPS 55med**	**PPS 55plus**	**PPS 70plus**
Patented LokoStation PPS	x	x	x	x
Dimensions Running Surface	157 x 55 cm	157 x 55 cm	157 x 55 cm	157 x 70 cm
Speed, infinitely variable	0 - 5 km/h	0 - 20 km/h	0 - 25 km/h	0 - 25 km/h
Reverse Speed (at -10% at max. 80 kg)	-	-	-	10 km/h
Inclination infinitely variable	-	0 - 20%	0 - 20%	0 - 20%
Operating Display Option	Data Monitor	Data Monitor	WUS	WUS
Serial Interface RS232 with Export-function	x	x	x	x
Polar Pulse Measurement	x	x	x	x
Magnetic Control Panel	x	x	x	x
Magnetic Emergency Stop	x	x	x	x
Emergency Stop Button	x	x	x	x
Adjustable Parallel Handrails	x	x	x	x
Cross Bar	x	x	x	x
Stabilization of the Hips	x	x	x	x
Dynamic & Static Body Weight Support	x	x	x	x
Symmetric & Asymmetric Body Weight Support	x	x	x	x
Variable Deviation Points	x	x	x	x
Wheel Chair Ramp incl. Handrail left	x	x	x	x
2 adjustable Seats for Therapists	x	x	x	x
2 Patient Harnesses, Standard Sizes XS - XXL	x	x	x	x

Technical Data

WOODWAY LokoStation PPS	
Overall Dimensions L x W x H (incl. Ramp)	360 x 149 x 278
max. Patient Weight	160 kg
Total Weight	760 kg (790 kg PPS 70plus)
Colour	white
MDD 93/42/EWG	fulfilled
CE-Certification	fulfilled

Electrical Data

power supply / rated frequency	230 V AC, 10 A/50/60 Hz, recommended 10A C-Type (time-lag)
drive	4-quarter-regulated dc motor 1,38 power with tachometer
hoist motor	DC motor 0,15 kW with worm gear
power cord	3 m, 3 x 1 mm², earth contact type plug und socket type T113
main fuse	10 A time lag type, 5 x 20 mm
max. power input	1000 VA
protection class	I, Type B

5.3 Symbol Explanation

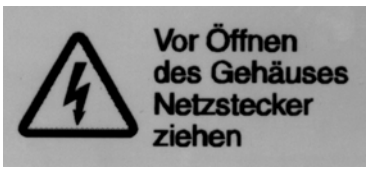
The following are the symbols found on the treadmill and their meanings.

Here is all of the current information about the treadmill, for example the Serial Number, Model and electrical requirements.

Protection against electrical shock equipment for external and internal use on patients, however not for direct use on the heart

Protective conductor connection (grounded) for DIN 40011

Attention: Before working on the equipment be sure to pull the electrical plug.



Attention: In this box are electricity conducting parts. Before opening, pull the electrical plug.

Danger: Hands could be pinched on the handrails or feet could be pinched on the ramp

6. Operation

6.1 Emergency Stop systems

Caution – Possible danger of injury or damage.

In case of danger (e.g. when a patient falls down), the treadmill must be stopped immediately with the Emergency Stop system.

Caution – Possible danger of injury or damage.

Each time the Emergency Stop switch is activated, the main power is isolated from the system, thereby causing an Emergency Stop.

6.1.1 Emergency Stop pull wire magnetic switch

The Emergency Stop pull wire magnetic switch system consists of a proximity switch that is mounted either to the WUS data display or else to the handrail and is actuated by means of a magnet. The magnet is connected to a wire that is attached to the runner's clothing by means of a clip.
When the magnet is pulled away from the proximity switch contact area, the 230 V power supply is interrupted and an Emergency Stop is initiated.

The magnet must be positioned on the red field with the yellow ring!

When the magnet is not correctly positioned, the treadmill cannot operate!

Caution – Possible danger of injury or damage.

The Emergency Stop pull wire switch magnet must be attached to the runner by means of the wire with the clip at all times during operation.

6.1.2 Handrail-mounted Emergency Stop switch (mushroom)

The Emergency Stop switch (mushroom type), which is mounted on the side of the right handrail, can be pressed in case of emergency. When the Emergency Stop switch is pressed, the 230 V power supply is interrupted and an Emergency Stop is initiated.

To release the Emergency Stop switch, lift the red mushroom button up (pull hard)!

Dismounting in case of emergency

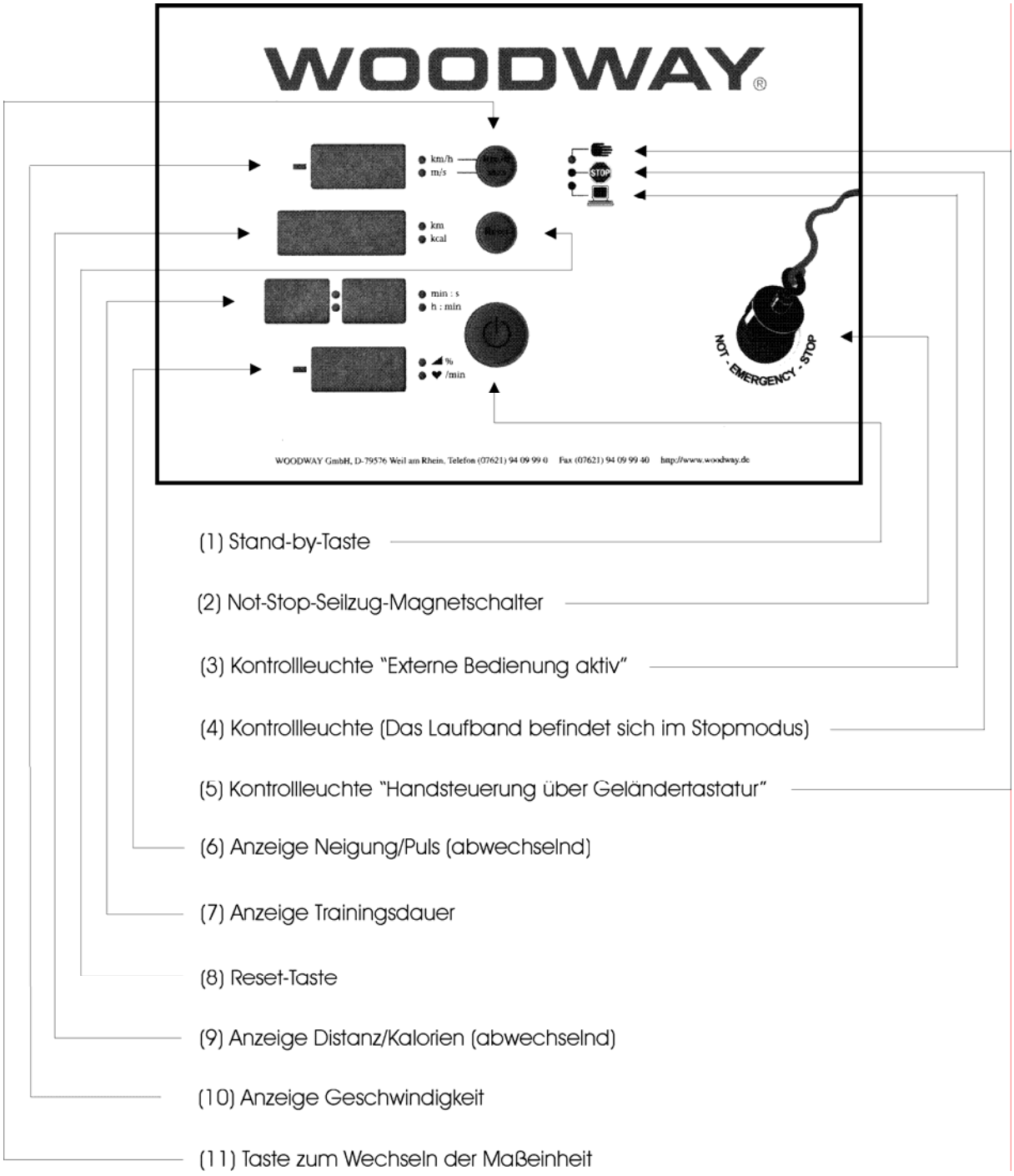
Caution – Possible danger of injury or damage.

To dismount in case of emergency, straddle the treadmill by jumping onto the side panels and then shut the treadmill off.

In case of emergency, do not step off of the treadmill in the normal way: First straddle the treadmill by jumping onto the side panels, such that the running area can run freely between your legs. Then stop the treadmill using either the normal stop or else one of the Emergency Stop systems.

6.2 Data Monitor

The WOODWAY data display module is used to show the treadmill's current control parameters and modes. In addition, the Standby Button and the Emergency Stop magnet pull wire are also incorporated into the data display module. The treadmill is operated (speed and inclination settings) from the keypad on the handrail.



1. Standby button
2. Emergency Stop pull wire magnetic switch
3. "Remote control mode active" control lamp

4. Control lamp (the treadmill is currently in stop mode)
5. “Manual operation via handrail-mounted keypad” control lamp
6. Inclination / Pulse rate display element (alternating)
7. Elapsed time display element
8. Reset button
9. Distance / Energy display element (alternating)
10. Speed display element
11. Button for changing displayed units of measure

6.2.1 Switching the treadmill on

The magnet must be properly positioned on the required field (2)!

After you have powered up the treadmill with the main ON/OFF switch located under the right side (as viewed from the running direction), activate the treadmill by pressing the Standby Button (1). To stop the treadmill, please use the “Stop button” on the handrail-mounted keypad.

6.2.2 Using the handrail-mounted keypad

a) Speed adjustment

Start the treadmill by pressing the green “+ button”. The treadmill then runs with no resistance whatsoever and at very low speed. To increase speed, press the "+ button" several times in succession or hold it down until the desired speed has been reached.

To slow down, press the blue “- button”. Speed will diminish gradually. You can either press this button several times in succession or hold it down continuously until the desired speed has been reached.

To stop more quickly, use the red “Stop button”. Pressing it once briefly causes the treadmill to stop relatively suddenly. How quickly it stops depends on the speed with which it is running at the time the button is pressed. The faster you are running, the longer it takes to stop - in any case, the shut down speed is always comfortable and under no circumstances is it too fast.

b) Inclination adjustment

To activate the inclination (for running uphill or downhill, the latter being an optional feature), press the yellow button ↑for going uphill and the yellow↓ button for going downhill.

c) Treadmill control mode display

Green LED	(3) lit:	Manual control via handrail-mounted keypad active The slat-belt treadmill can be operated via the handrail-mounted keypad.
Red LED	(4) lit:	The treadmill is in Stop mode
Red LED	(5) lit:	Remote control activated The slat-belt treadmill is controlled by an external control device (PC or peripheral device, e.g. ECG) via the RS-232 interface. Manual control via the handrail-mounted keypad is disabled.

d) Reset button (8)

Resets all values in the display segments back to zero. Press this button when the data display module still shows previous values, e.g. from the previous user.

Then operate the treadmill via the handrail-mounted keypad or an external control system.

e) Speed display (10)

The upper display (10) shows the current treadmill speed. Your system can be set to display either kilometers per hour or meters per second via button (11) located to the right of this display. The two LEDs located between the display and the button indicate which of the two unit systems is active at any given time. The display includes a leading sign. This lights up when the “reverse switch” function is activated (reversal of the direction of travel of the slat-belt running surface to enable downhill operation). This function is not supplied as standard equipment and can only be activated by means of an external control system via the RS-232 interface.

f) Distance and energy display (9)

This display element (9) shows, updated at ten-second intervals, the total distance traveled in kilometers and the total energy expended by the runner in kilocalories since the last time the treadmill was started. The upper LED next to the display indicates that the displayed value corresponds to the distance. The lower one indicates display of energy exerted.
The values of distance and energy remain in the system after the treadmill has been stopped. To delete them, press the reset button (8).

g) Elapsed time display (7)

The display element (7) shows the elapsed training/therapy time. In the beginning, the display shows the time elapsed since the start of the session, with the minutes on the left side and the seconds on the right. The two values are separated by two dots that blink once per second. The upper LED to the right of the display indicates this condition.
When the length of a training session exceeds one hour, the display changes to hours and minutes. At that point, the upper LED turns off and the one beneath it lights up instead.

The values remain in the system after the treadmill has been stopped. To delete them, press the reset button (8).

h) Inclination and pulse rate display (6)

These two values are likewise shown on a single display field (6).

If the Polar transmission chest strap is used, the pulse rate in beats per minute (bpm) is displayed.

Caution – Possible danger of injury or damage.

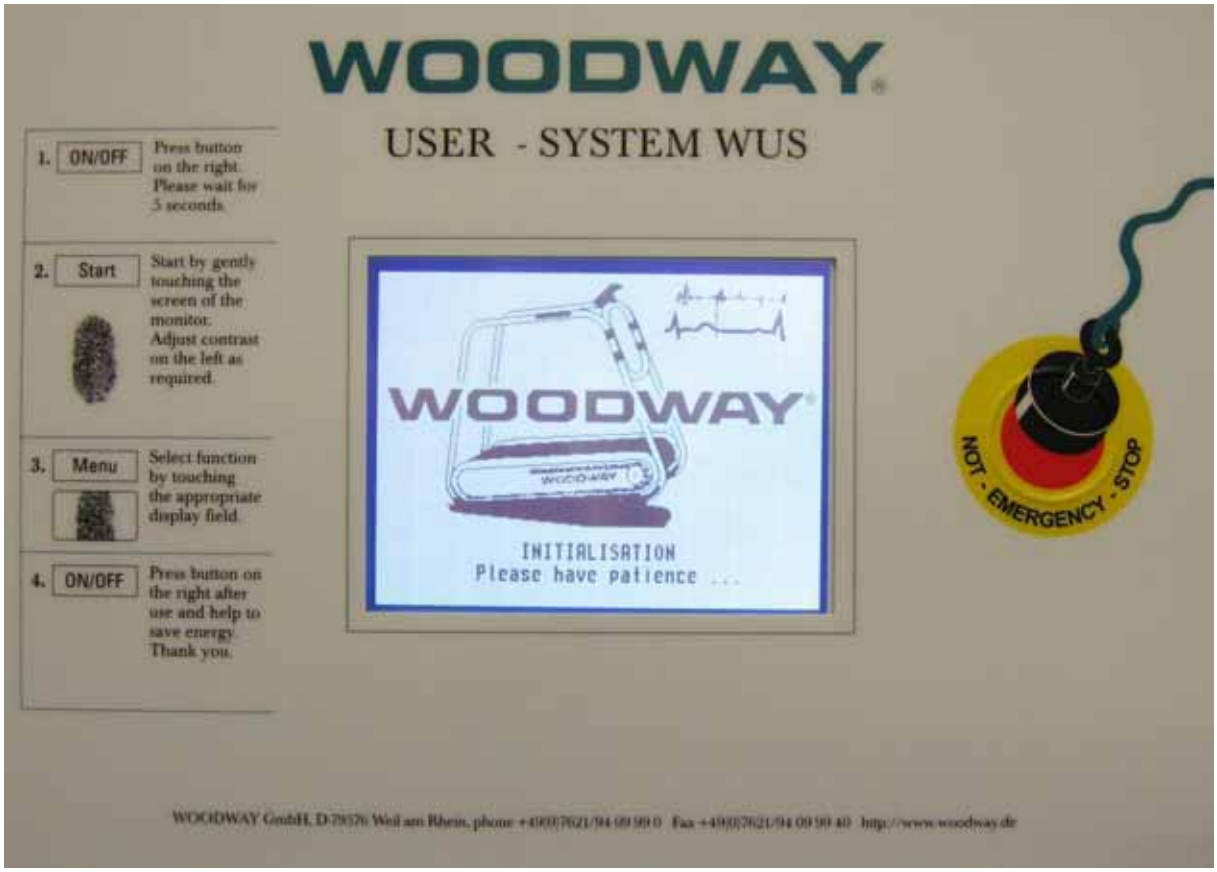
Although the Polar pulse rate measurement provides very precise data, the pulse measurement system is only used as a general indicator. The treadmill pulse measurement is not intended for diagnostic or medical purposes. For diagnostic or medical purposes, use only ECG instruments specifically designed and approved for that purpose.

Following modification of the degree of inclination in % (via the handrail-mounted keypad or an external control system), the new value appears on the display for five seconds. The upper LED next to the display is lit. If the inclination remains unchanged, the runner’s current pulse rate will be displayed after this period of time and the lower LED will be lit.

As with the speed value, the inclination display also has a leading sign. Negative inclination is only possible for treadmills that are equipped accordingly. The leading sign lights up when the “reverse switch” function is activated (reversal of the direction of travel of the slat-belt running surface to enable downhill operation). This function is not supplied as standard equipment and can only be activated by means of an external control system via the RS-232 interface.

For treadmills with no pulse rate monitor system or when the transmission chest strap is not worn, the degree of inclination is displayed continuously.

The WOODWAY User System (WUS) is used to operate the slat-belt treadmill and to display the treadmill's current control parameters and modes. The Standby button (on the right side of the housing) and the Emergency Stop magnet pull wire system are also incorporated into the WUS housing (control panel). In addition, the treadmill can also be operated (i.e. via speed and inclination settings) from the keypad on the handrail.



1. Touch screen
2. Standby button
3. Emergency Stop pull wire magnet
4. Contrast regulation knob for touch screen

A touch screen is a small computer monitor that also serves as a data input keypad. You can read the information and simultaneously control treadmill operation by touching the "buttons" represented by the small framed fields, thereby sending inputs to the computer with light fingertip pressure.

Emergency Stop pull wire magnetic switch (3)

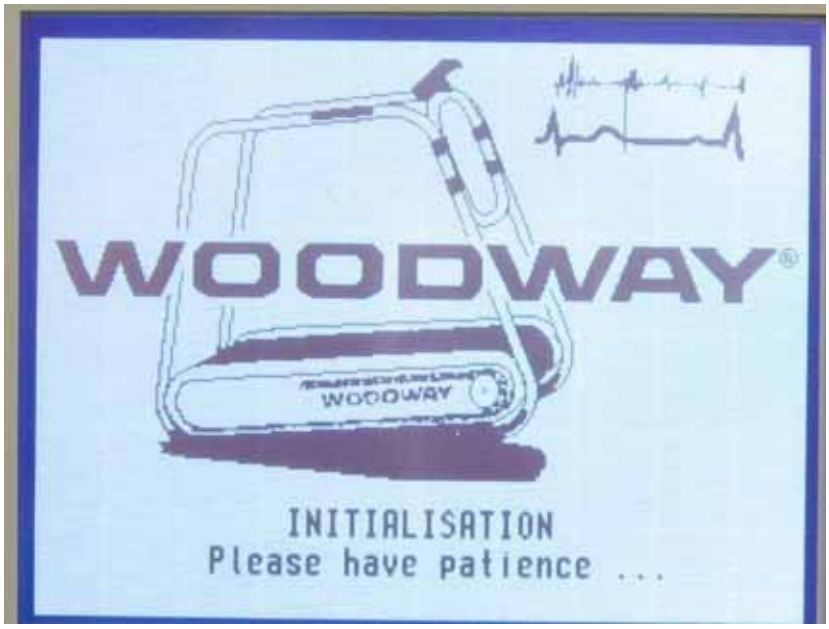
Caution – Possible danger of injury or damage.
Refer to "Chapter 4 - Operation - Emergency Stop systems"

The magnet must be properly positioned on the required field (3) !

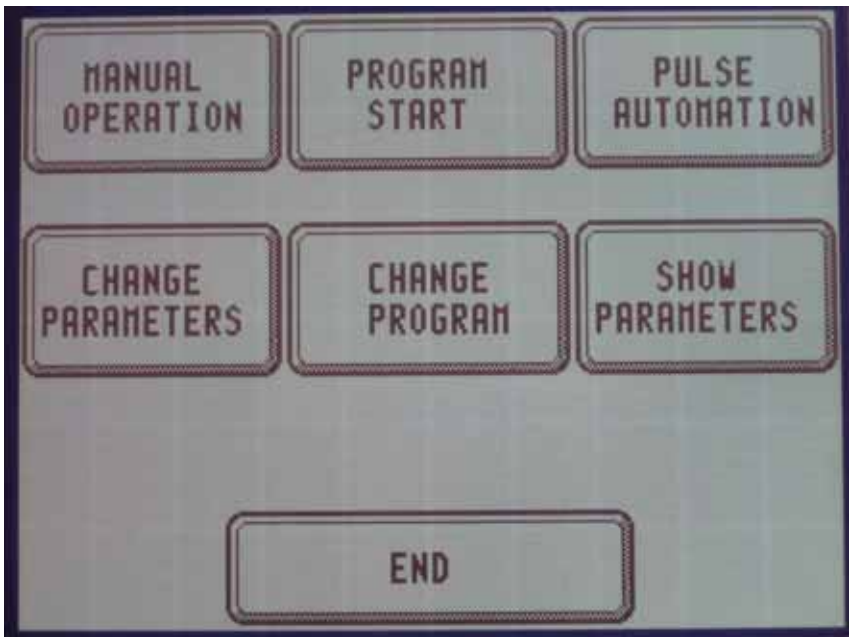
Switching the treadmill ON

After you have powered up the treadmill with the main ON/OFF switch located under the right side (as viewed from the running direction), activate the treadmill by pressing the Standby button (2). To stop the treadmill, please use the “Stop” button on the handrail-mounted keypad or press the corresponding field on the touch screen.

After switching ON, the following image appears on the touch screen for a few seconds:



Then the following display (**Main Menu**) appears automatically:



Menu button: MANUAL OPERATION

Press the button marked “MANUAL OPERATION”. The following display appears on the touch screen:

a) <u>Display information</u>

- Current **speed**, selectable format in km/h, mph or m/s.
  To select display units, refer to *“Menu button: MODIFY PARAMETERS”*.
- Current **inclination** in %
- **Distance** traveled, selectable format in km, miles or meters.
  To select display units, refer to *“Menu button: MODIFY PARAMETERS”.*
- **Elapsed time** in hh.mm.ss
- **Heart rate** in bpm (beats per minute)

If the Polar transmission chest strap is used, the pulse rate in beats per minute (bpm) is displayed.

Caution – Possible danger of injury or damage.
Although the Polar pulse rate measurement provides very precise data, the pulse measurement system is only used as a general indicator. The treadmill pulse measurement is not intended for diagnostic or medical purposes. For diagnostic or medical purposes, use only ECG instruments specifically designed and approved for that purpose.

- **Power** in watts or **energy value** in kcal
  To select display units, refer to “Menu button: MODIFY PARAMETERS".

b) <u>Speed adjustment</u>

Start the treadmill by pressing the “+ button” (with a light tap of the fingertip on the touch screen). The treadmill starts moving with no resistance whatsoever and at very low speed. To increase speed, press the "+ button" several times in succession or hold it down until the desired speed has been reached.

To slow down, press the “- button”. Speed will diminish gradually. You can either press this button several times in succession or hold it down continuously until the desired speed has been reached.

To stop more quickly, press the “Stop” button on the touch screen. How quickly it stops depends on the speed with which it is running at the time the button is pressed. The faster you are running, the longer it takes to stop - in any case, the shut down is always comfortable and never too abrupt.

Caution – Possible danger of injury or damage.
Do not use the Emergency Stop systems to stop under normal circumstances. Actuating the Emergency Stop systems implies that there is an emergency situation, which is why the treadmill stops much more abruptly than with the normal "Stop” button.

The direction of travel can be changed while the belt is not in motion (option: Reverse switch). Press the “+/- button”, which appears in place of the “- button”. In reverse mode, the maximum allowable speed in 10 km/h and the maximum inclination is 10%. Each time you restart the system or press the Stop button or exit the manual operation mode, the direction of travel automatically resets to forward.

a) Inclination adjustment

To activate the inclination (for running uphill or downhill, the latter being an optional feature), press the “ ↑button” for going uphill and the “↓ button” for going downhill.

<u>Using the handrail-mounted keypad</u>

b) Speed adjustment

Start the treadmill by pressing the green “+ button”. The treadmill starts moving with no resistance whatsoever and at very low speed. To increase speed, press the "+ button" several times in succession or hold it down until the desired speed has been reached.

To slow down, press the blue “- button”. Speed will diminish gradually. You can either press this button several times in succession or hold it down continuously until the desired speed has been reached.

To stop more quickly, use the red “Stop” button. Pressing it once briefly causes the treadmill to stop relatively suddenly. How quickly it stops depends on the speed with which it is running at the time the button is pressed. The faster you are running, the longer it takes to stop - in any case, the shut down is always comfortable and never too abrupt.

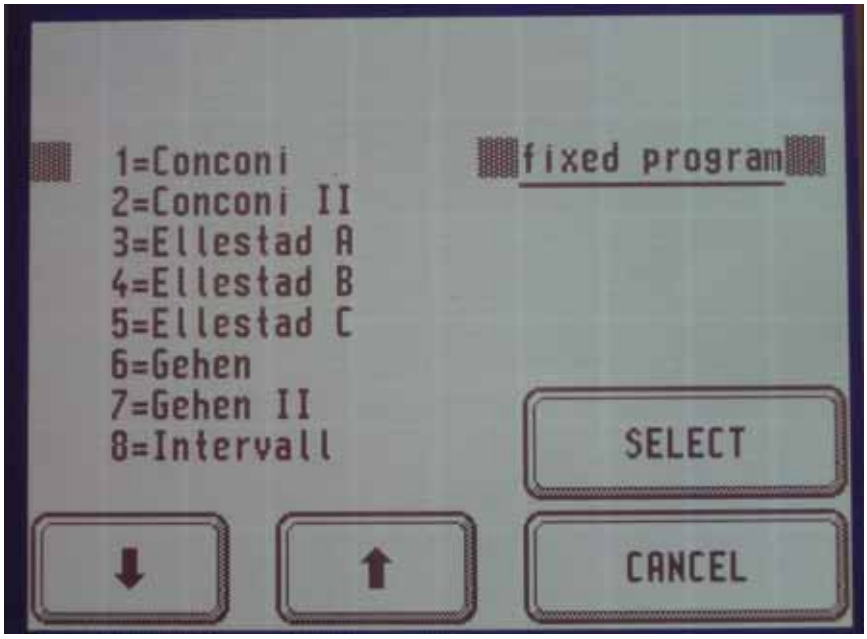
Caution – Possible danger of injury or damage.
Do not use the Emergency Stop systems to stop under normal circumstances. Actuating the Emergency Stop systems implies that there is an emergency situation, which is why the treadmill stops much more abruptly than with the normal "Stop” button.

c) Inclination adjustment

To activate the inclination (for running uphill or downhill, the latter being an optional feature), press the yellow “↑ button” for going uphill and the yellow “ ↓button” for going downhill.

Menu button: START PROGRAM

This starts the treadmill program. It makes no difference, in this case, whether the program in question is one of the pre-installed WOODWAY package programs or one you have created yourself.
(For programming, refer to "*Menu button: EDIT PROGRAM*")



ARROW BUTTON	moves the cursor up and down for marking the desired program. Program names are displayed together with indicators showing whether they are package or custom programs.
SELECT	loads the program of your choice (i.e. the one you have marked with the cursor). A new display screen appears showing the program structure.
CANCEL	returns to the Main Menu.

You see the program structure and you can start the program by pressing the START button.
After starting the program, the following information appears on the screen:

A vertical line moves across the screen from left to right, showing you your current position in the program. In addition, the following information is provided:

- Current treadmill **speed**, selectable format in km/h, mph or m/s.
  To select display units, refer to *"Menu button: MODIFY PARAMETERS"*.
- Current **inclination** in %
- **Distance** traveled, selectable format in km, miles or meters
  To select display units, refer to *"Menu button: MODIFY PARAMETERS"*.
- **Elapsed time** in hh.mm.ss
- **Heart rate** in bpm (beats per minute)

If the Polar transmission chest strap is used, the pulse rate in beats per minute (bpm) is displayed.

Caution – Possible danger of injury or damage.
Although the Polar pulse rate measurement provides very precise data, the pulse measurement system is only used as a general indicator. The treadmill pulse measurement is not intended for diagnostic or medical purposes. For diagnostic or medical purposes, use only ECG instruments specifically designed and approved for that purpose.

- **Power** in watts or **energy value** in kcal
  To select display units, refer to *"Menu button: MODIFY PARAMETERS*".

While the program is running, you can adjust the operating parameters at any time. Press the buttons on the handrail-mounted keypad to change the settings for a given program step, e.g. to reduce speed. After completion of the manually-modified program step, the program resumes its normal program.

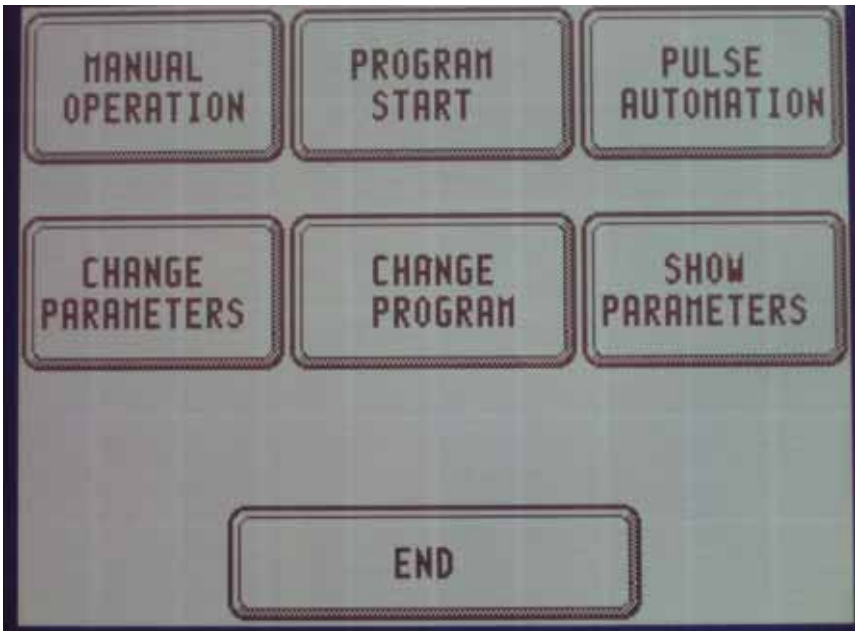
Whenever the "Stop" button on the handrail is pressed, or when the screen is touched, or when the programmed pulse rate limit is exceeded, the treadmill stops and the program is interrupted. The following information is displayed:

RESUME PROGRAM	The program will continue operation from the point where it stopped when it was interrupted.
CANCEL PROGRAM	Return to the Main Menu.
REDUCE / INCREASE PULSE LIMIT	Enter a new limit on the touch screen.
IGNORE PULSE LIMIT	Program will continue.

Menu button: EDIT PROGRAM

This program item enables you to define and store your own programs, as well as to edit or delete existing programs. The system can store about 2000 steps, i.e. for example 200 programs with 10 program steps each, or 20 programs with 100 programs each. The system displays the remaining free storage capacity at any given time.

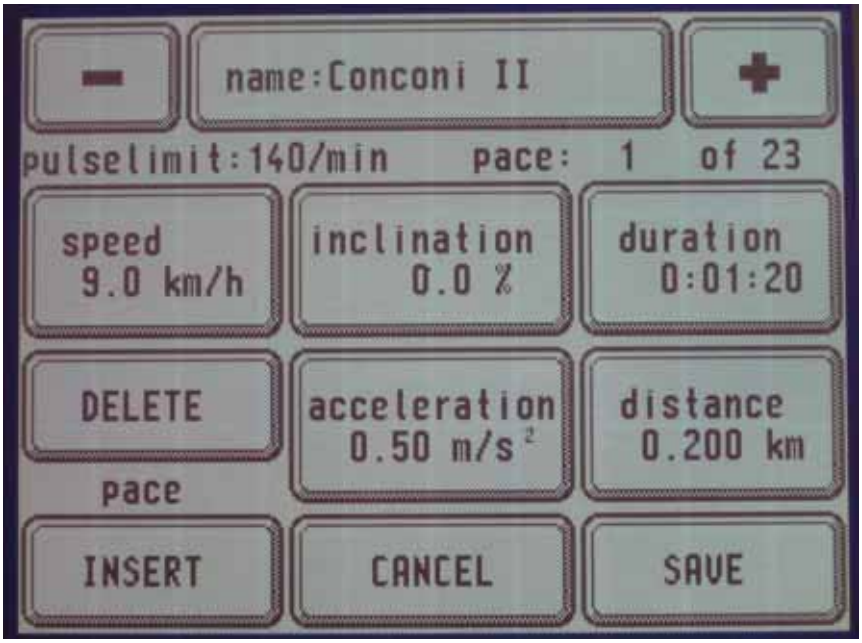
Select from the Main Menu…



...the button: EDIT PROGRAM

The next screen then allows you to select the following operations:

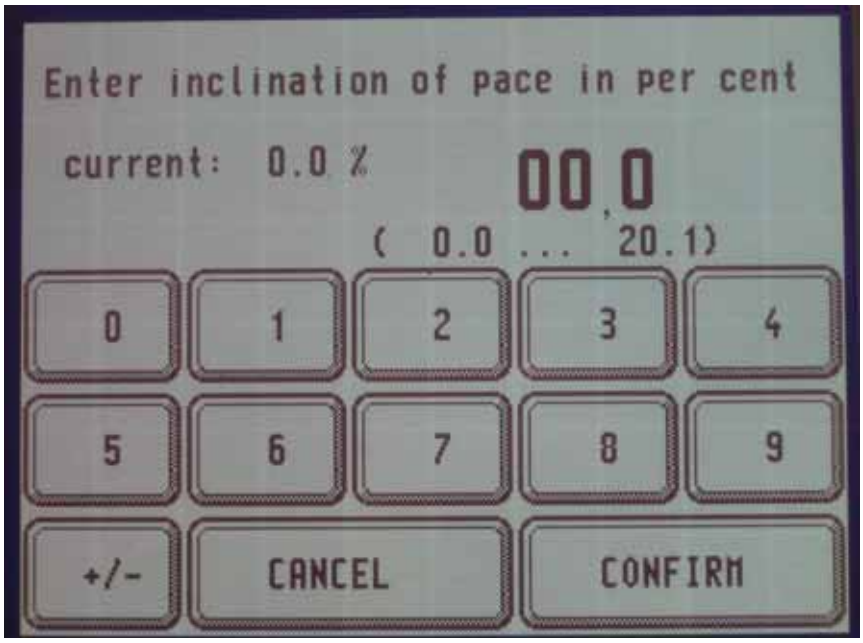
SELECT PROGRAM	This switches you to the “Treadmill programs” menu, where you can select a treadmill program as described in this operation manual under the section entitled *"Menu button: START PROGRAM"*.
DELETE PROGRAM	Deletes the program that you have selected in the manner described above. A data protection query appears automatically, asking whether you really wish to delete the program.
EDIT PROGRAM	Allows you to edit the program that you have selected in the manner described above.



- and + - -BUTTON — Steps through the various program steps. When, for instance, you would like to change Step 5 in the example shown above, press the "+ - button" four more times until the display shows:

Step 5 of 21.

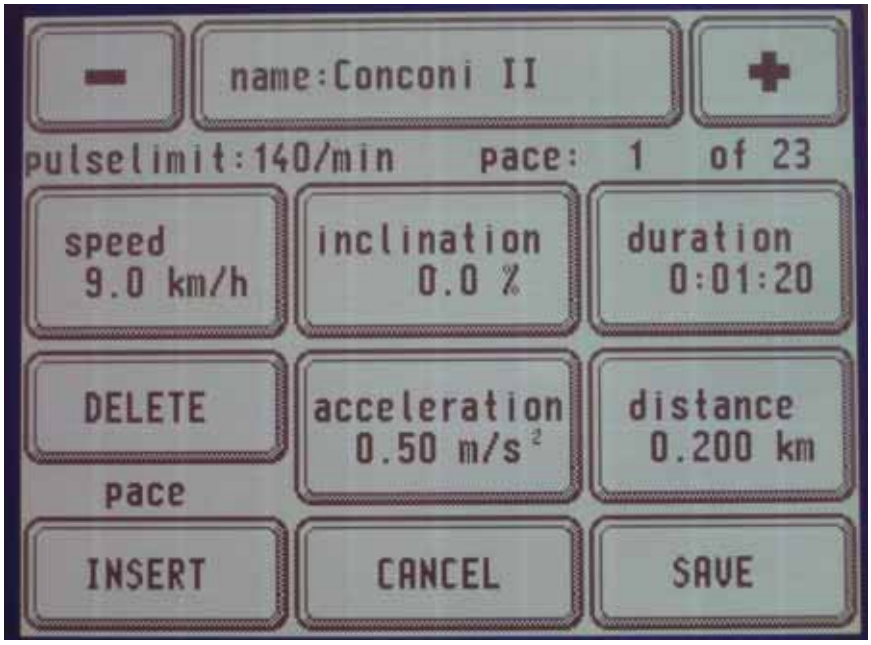
SPEED, etc. — Select the parameter that you would like to change. Modify the given parameter by entering the new value:



CONFIRM — Accept the value entered.

CANCEL — Return to the Main Menu.

After confirmation, the following display reappears:



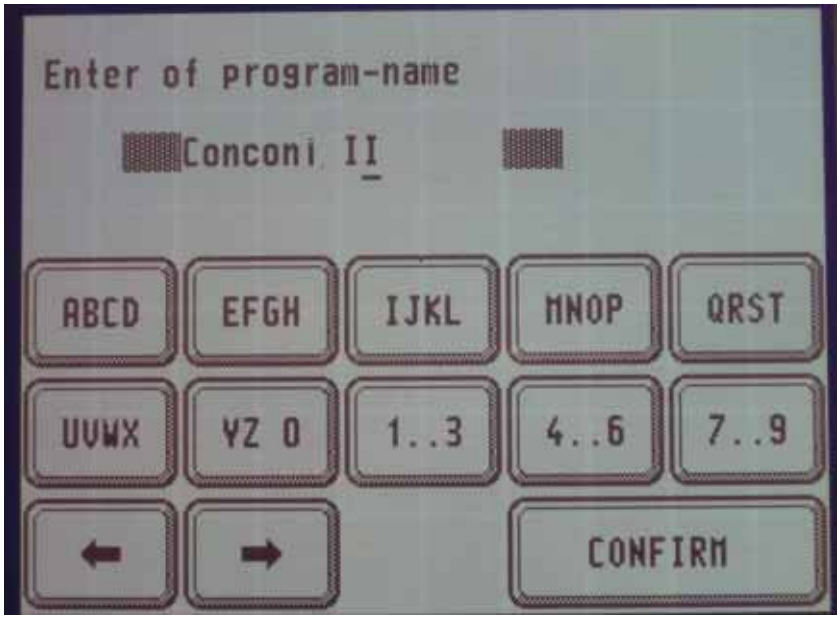
SAVE	stores the program steps that you have modified.
DELETE	deletes the currently displayed program step.
INSERT	inserts a new program step. You must enter the parameters for this program step separately as described above.
CANCEL	returns you to the Main Menu.

Creating a **new program** is just as easy as editing an existing program.

In the Main Menu, select the program button… EDIT PROGRAM

And then the button… CREATE PROGRAM

Now proceed in the same manner as for modifying an existing program, by changing the various parameters. You can assign the name of your choice to the program by pressing the NAME button. Enter a name for the program using the following mask:



Press the SAVE button only at the very end, after you have completed all entries.

In the following mask, you will be asked to confirm that you really want to save the program.

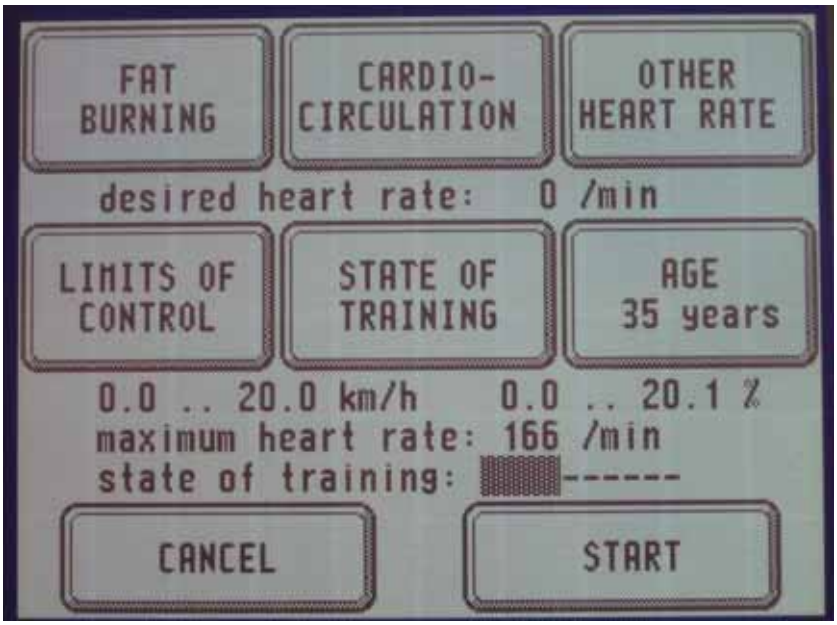
SAVE	stores the program in the list of treadmill programs. The new program can then be selected from the list of treadmill programs and started as described above.
MODIFY NAME	enables you to change the name of the program again.
PULSE RATE LIMIT	enables you to enter a pulse rate limit for the program. Refer also to the *"Menu button: AUTOMATIC PULSE RATE"*, described below.
CANCEL	returns you to the Main Menu.

Menu button:	***AUTOMATIC PULSE RATE***

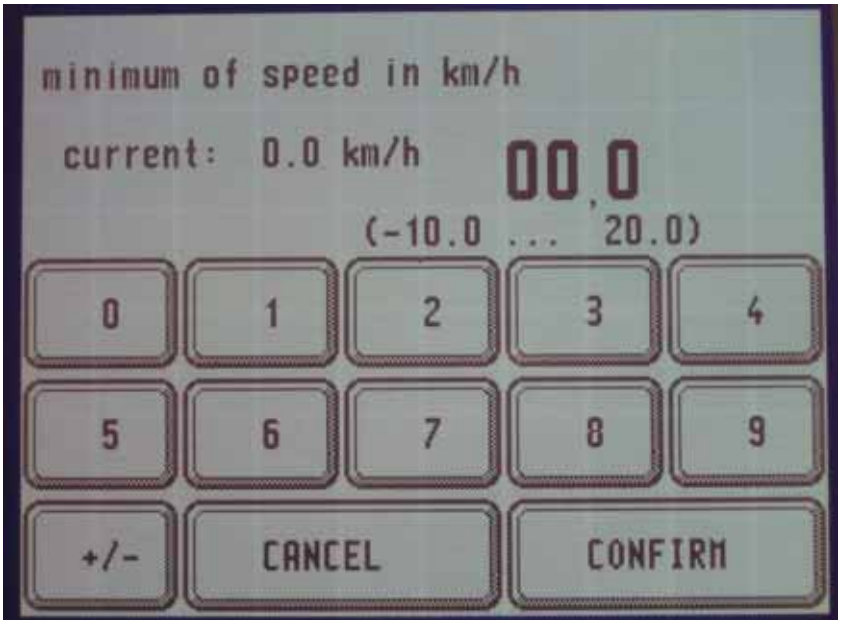
The slat-belt treadmill features an Automatic Pulse Rate option, i.e. the treadmill can be controlled according to the runner's pulse rate.

Caution – Possible danger of injury or damage.
Although the Polar pulse rate measurement provides very precise data, the pulse measurement system is only used as a general indicator. The treadmill pulse measurement is not intended for diagnostic or medical purposes. For diagnostic or medical purposes, use only ECG instruments specifically designed and approved for that purpose.

When you select this program, the following information appears on the screen:



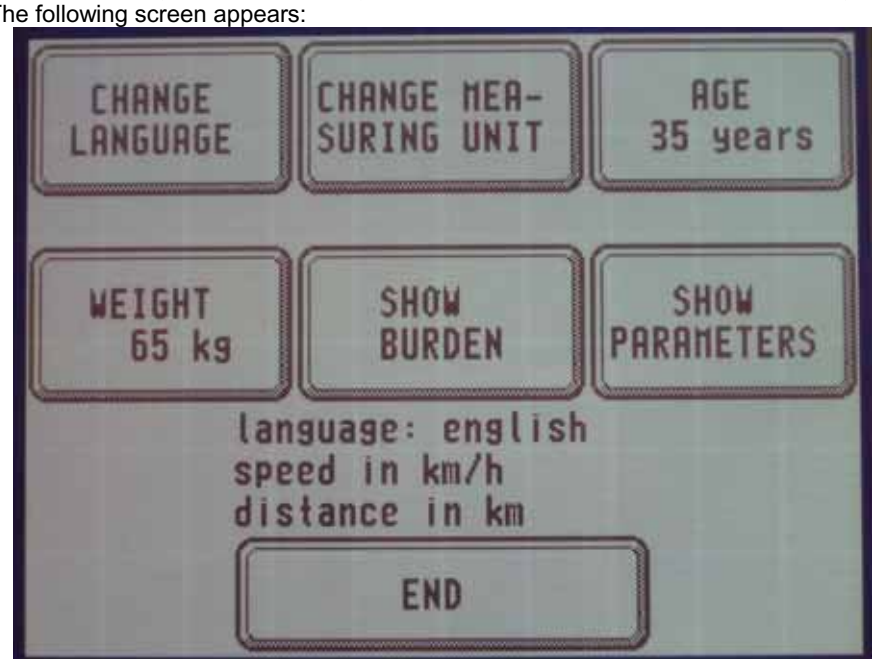
First enter your age with the "AGE" button and your physical condition with the "CONDITION" button. Type the entry in using the following mask and “CONFIRM”.



BURNING OFF FAT	Proposes a pulse rate limit for a training session designed to burn off fat based on the age and physical condition entered.
CARDIOVASC. TRAINING	Proposes a pulse rate limit for a cardiovascular training session based on the age and physical condition entered.
OTHER PULSE SETPOINT	Use the number keypad on the touch screen to enter this value (see above).
LIMIT SETTINGS	This allows you to enter limits for speed and inclination. The treadmill generally adjusts itself to a given combination of speed and inclination. The limit settings can be used to disable the incline function, for example, or to limit the speed.
END	Loads the parameters and enables you to start the treadmill using the selected Automatic Pulse Rate option.
CANCEL	Return to the Main Menu.

Menu button:	***MODIFY PARAMETERS***

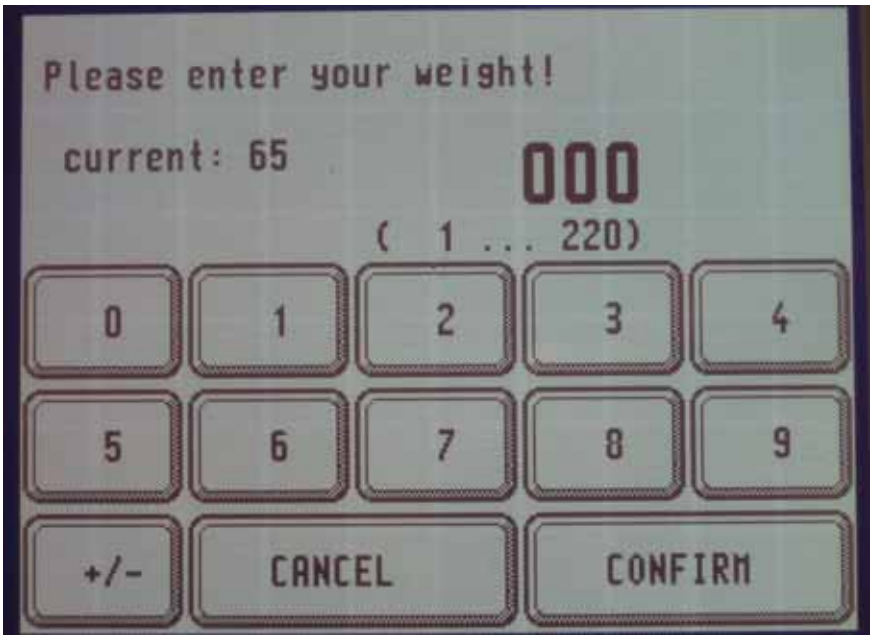
Select this menu item when you wish to modify the treadmill control parameters, especially the display units (dimensions). The following screen appears:



Press the corresponding button to adjust the desired value. The programmed value is displayed in this mask, e.g. speed in km/h. Press the “END” button to confirm acceptance of the new value and return to the main menu.

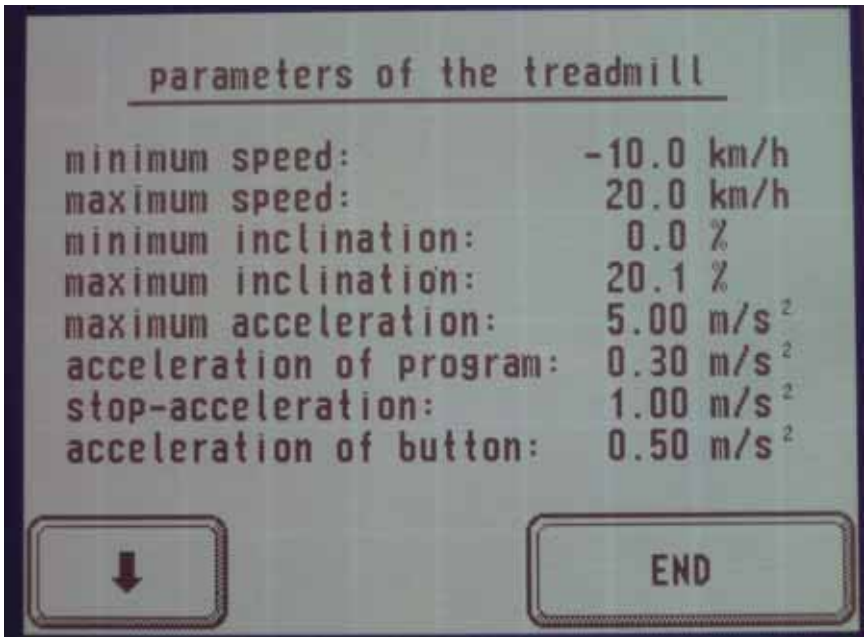
When certain buttons are selected (e.g. weight), the following keypad appears:

Enter the weight and press the “CONFIRM” button.



Menu button: DISPLAY PARAMETERS

This button calls up the technical performance parameters of the treadmill. The contents of this display screen are only for your information, these parameters cannot be modified:



Press the “Arrow” button to access further technical information, if available. Press the “CANCEL” button to return to the main menu.

6.4 Bar Rail

Functional Description

The Woodway Bar Rail is height and width adjustable. Integrated in the bars of the Bar Rail are adjustable Gas-Pressure Blocking Springs, which allow, combined with an easy-to-use clamping fixture for locking the Bar, a uniquely simple handling.

Figure 1

Figure 2

Operating:

Loosen the Locking Bolts of on one or both sides. The Rail can then be width adjusted by moving the Arm horizontally into the desired position.

For adjusting the height use the respective Push Button and position the Side Rail to the desired height.

This can be done in both directions (up / down).

The Rail moves up almost automatically (light pull is needed), downwards the Rail has to be pushed against the resistance of the Gas Spring (Fig. 2, 3). The Push Button has to be held down throughout the whole adjustment process. Releasing the Push Button arrests the adjusted height automatically.

After adjusting to the desired position lock the Rail with the Clamping Bolts (Fig. 4)

Figure 3

Figure 4

6.5 Body Weight Support (LokoStation)

Functional Description

The BWSS is responsible for static or dynamic body weight support. The center of gravity (COG) of patients shows a sinusoidal curve during walking cycles. For static weight support one has to shift a metal bar over the weight track for locking. That means the elevation ropes will have a fixed length during therapy. Because of the up and down movements of the center of gravity during walking/gait cycles, the patient takes over more body weight in the stance phase as opposed to the swing phase.
During dynamic body weight support, one determines a specific weight support which follows the COG throughout the whole gait. In every single phase of patient movement, it is guaranteed that the chosen weight supports the patient.
As a precaution check the patient's ability to stand alone before using the Dynamic Weight Support Therapy method.

Operation

The wheelchair patient is pushed onto the treadmill over the ramp or walks by himself on the walking surface. The elevation ropes have to be released with the winch up to the patient's shoulder level. The patient will be placed with the wheelchair right below the fasteners which will be fixed to the harness (see picture below).

6.5.1 Preparation Setting Shoulder

Figure 1

The first two pulleys of the elevation ropes (to attach the harness) should be fixed individually related to the shoulder width of each patient. Make sure that the elevation ropes are not tied up during width adjustment.

Figure 2 Adjustment Tool For Preparation Settings

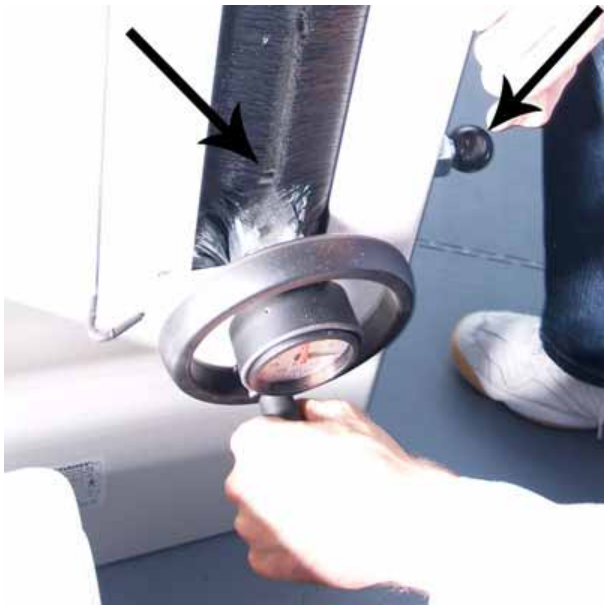
Please use the following tool for adjusting the shoulder width.

Figure 3 Setting the Deviation Points

Take the adjustable knob shown in the picture, pull it down for release and shift it to the left or right side. Make sure you lock the adjustable knob to an available hole.

6.5.2 Body Weight Support

Figure 4 Adjustment of the Security Spikes



For Static Weight Support Therapy, the security spikes should be pushed in and visible over the weight change plates. As a result, dynamic weight support will be prevented.

Figure 5 Central Winch

The elevation ropes will be pulled up by turning the central winch in a clockwise direction. If one turns the winch in a counter clockwise direction, the ropes will be lowered.

6.5.3 Dynamic Body Weight Support

To change from Static to Dynamic Weight Support, the patient must be, with the help of the central winch, raised to an upright position so that he/she can carry his/her own weight without assistance. In order to release the security spikes, be sure that the ropes are NOT under tension. By adjusting the weight plates for the right and left side, one is able to set a different weight support for each side of the patient's body.
After the patient is able to stand by him/herself, the ropes will be loosened by turning the crank in a counter-clockwise direction.

At this point the Weight Support System is in the static position, i.e. the security spikes are pushed in.

Figure 6 Setting the Dynamic Body Weight Support

With the crank, one determines the selected weight for therapy. If one turns the crank in a clockwise direction as far as possible, one can realize a maximum dynamic weight support of 38kg for each side of the body. If one turns the crank in a counter clockwise direction until it stops, one will realize a minimum of 4kg for each side of the body. With the upper crank one can set the weight support for the right half of the patient's body. With the lower corresponding crank, one can set the weight support for the left half of the patient's body.

Figure 7 Releasing the Security Spikes

Now the security spikes can be released by turning them and pulling outward. The outward pulling of the security spikes allows the weight change to resonate and activate the dynamic weight support. Through the optionally adjustable upper and lower weight change, one can utilize a dynamic therapy with a static weight support in combination.

Figure 8 Centering of the Winch

The central winch is now turned completely in a clockwise direction, until both of the weight plates inside the drive link are positioned centrally and can be moved up and down.
If needed the dynamic weight supports can be changed during therapy with the help of adjusting both of the cranks to the desired position.

If the therapy is ended in the dynamic weight support mode, the crank for the central winch must be turned in a counter clockwise direction as in the static weight support mode. As a result, the dynamic weight change plates inside the drive link sink to the lowest position. As a result, one can reset the security spikes and the weight support system is back in the static weight position.

6.5.4 Rope Length Adjustment

The rope length adjustment allows the user to balance the different rope lengths to a maximum of 3cm. At the beginning of therapy, it is important that the patient's shoulders, in respect to their pelvic axis be positioned horizontal to the treadmill.

Service

The Security Spikes of the LokoStation are pushed in (Illustration 4)
Through turning the crank in a clockwise direction (Illustration 5) the patient will be hoisted up until one is certain his/her heels make contact with the running surface of the treadmill.

By pulling the adjustable ropes in a downward direction, the left side of the patient's body will be raised over the uploaded level of the patient's right side of his/her body.

By releasing the adjustable ropes the uploaded level of the left side of the patient's body will be lowered below the patient's right side of his/her body.

Finally, the adjustable ropes need to be clamped to prevent reverse motion.

Before attaching the patient the 2 carabiners should be brought to a middle position (default position, see figures A,B)

A

B

Pulling down the rope adjustment will lift up the left body half of the patient (see figure C,D).

C

D

By loosen the rope adjustment the left body half will be lowered (see figure E,F).

E

F

To guarantee a safe fixation of the rope the a self locking rope

By pulling the rope it gets automatically fixed.

7. Maintenance

7.1 Introduction

Periodic cleaning and inspection can help you extend the service life of your slat-belt treadmill along with preserving its overall appearance. Moreover, this can prevent breakdowns, thereby reducing repair costs.

The following is a guide for regular maintenance and inspection. For treadmills that operate in unusually dirty environments or treadmills that are subject to particularly intensive usage, the recommended cleaning and maintenance intervals should be reduced accordingly. We recommend the purchase of a cost-effective service contract from one of our authorized service agents.

For cleaning purposes, never use sharp-bristled brushes or solvents – these can damage paint and plastic surfaces. In addition, the entire treadmill should never be doused with liquid – this can damage sensitive electronic components.

Caution – Possible danger of injury or damage.

Before cleaning, the treadmill must be switched off and the main power cable must be unplugged.

7.2 Treadmills in the Medical Market

Weekly:

- Wipe the handrails, control panel and exterior panels with a damp cloth.
- Check the power cable for cracks, cuts or exposed wires.
- Check the general condition of the treadmill.
- Clean underneath the treadmill belt with a vacuum cleaner.

  ➔ Note: You can access this area easily by raising the inclination of the belt assembly before switching the treadmill off and unplugging the power cable.

Every six months:

- Clean the inside of the treadmill belt assembly with a vacuum cleaner (remove side panels).
- Verify tightness of all screws.
  Retighten any loose fasteners
- Wipe the slat-belt running surface with a damp cloth.
- Visual inspection of the drive belt.
  ➔ If the belt is frayed or if teeth are missing, it must be replaced by one of our authorized service agents or by the factory.
- General visual inspection. (In case of anomalies, follow recommendations listed in "Chapter 8 – Troubleshooting").
- Lubrication
  - Bearings
    ➔ All of the treadmill's bearings are permanently lubricated (sealed) and never require further lubrication.
  - Slat-belt running surface

➔ The teeth of the toothed belt underneath the slat-belt running surface have been pre-lubricated to reduce noise during operation. The toothed belt can be cleaned and lubricant can be applied to its edges once every six months or on an as needed basis.

- Drive belt
  ➔ As with the running surface toothed belt, the edges of the drive belt can also be lightly greased if it "squeaks" audibly.

- Inclination system
  ➔ This is also lubricated at the factory. If the system requires lubrication again, apply a small amount of lubricant to the lift mechanism shaft.

Caution – Possible danger of injury or damage

Please bear in mind that excess lubricant serves no purpose and only causes dirt and grease to accumulate. Apply only extremely small amounts of lubricant, and use only the original lubricant we have provided in the service kit.

The Prescribed Recurring Test Period

The prescribed recurring test period (according to BGV A4 (VBG 4) Accident prevention directive) averages for treadmills 4 years (recommended is a test cycle of 1 year). This test may only be performed by an electrician or through an authorized person approved by the manufacturer.

Electrical Testing According to VDE 0751

Grounding Conductor Resistance Measurement	<0.3 Ohm
Isolations Resistance Measurement	>2 MOhm
Backup Electrical Measurement	<1 mA

These measurements should be performed with approved gauges according to VDE 0751. A MTK “Technical Measurement Control” according to § 11 is not prescribed by Woodway. If fluctuations of the display occur, the measuring unit should be cleaned.

If a Technical Measurement Control is requested, a form from WOODWAY is available or it can be performed by a WOODWAY approved Service Technician. The means and breadth of the Technical Measurement Control will be defined by WOODWAY.

7.3 LokoStation (Treadmill with Suspension in the Medical Market)

Daily Before Use

- Examine the ropes and knots or connections.
- Check the harness

Weekly:

- All ropes for abrasion
- All pulleys.
- All pulleys for damage or abrasion.
- All security relevant screws

Every six (6) Months:

- Examine the T-Tracks

Every twelve (12) Months:

- Exchange/replace all ropes.
- Exchange/replace all pulleys.
- Examine the entire system for potential problems.

The maintenance intervals, in respect to the prescribed parts that must be exchanged, can vary according to use. (Maximum 24 months).

We recommend the purchase of a service contract from one of our authorized service agents!

8. Troubleshooting

Apart from the simple maintenance recommendations described in *"Chapter 7 – Maintenance"*, slat-belt treadmill operators should **never** perform maintenance or repairs themselves. If the need arises, please contact your WOODWAY dealer, one of our authorized service agents or the factory itself.

In case of breakdown, please make note of the following information prior to consulting with your WOODWAY representative:

- Model and serial number of the treadmill.
- What happened just before the breakdown?
- Did the breakdown occur suddenly or gradually?
- In case of unusual noises - where were these noises coming from?
- Was the treadmill being used at the time of the breakdown?
- Describe any potentially relevant symptoms.

8.1 Fault description

If one of the following faults occurs, please perform the recommended check. If the treadmill does not operate correctly thereafter, please inform your WOODWAY representative as described above.

- Control panel is blank

  ➔ If the control panel display (data monitor or WUS) does not light up after turning the power on, first check the following points:

  - Is the treadmill switched on (main switch)?
  - Is the treadmill properly connected to an electrical socket (power cable correctly inserted into the treadmill and the electrical socket)?
  - Is the Emergency Stop pull wire magnet properly positioned on the control panel (magnet positioned precisely on the red center of the yellow-and-red Emergency Stop field)?
  - If present, is the Emergency Stop switch (mushroom button) still locked (release by pulling upwards forcefully or unlock by means of latch-key)?
  - Check the circuit breakers (fuses) for your electrical socket (house service connection).
  - Check to see whether the display lights up when you plug the treadmill's power cord into a different electrical socket.
  - Pull the power cord plug out of the socket and leave it unplugged for three minutes. Plug it in again and switch the treadmill back on.

- Control panel display lights up, treadmill does not function

  ➔ Verify that you have used the treadmill properly. Read the operation manual again.

- Unusual noises

  ➔ Probable causes:

  - Drive belt

    ➔ Remove side panels and apply a small amount of lubricant to the drive belt.

  - Running surface

    ➔ Remove side panels and apply a small amount of lubricant to the toothed belt.

Addendum:

- A declaration of conformity
- B EMC measurement