



INSTRUCTION FOR USE



WALKING TROLLEY - EL: 11992100

The walking trolley is a mobile device designed to assist a patient with a walking disability (neurogenic, muscular or orthopaedic in origin) to regain lost motor function, which may include rising from a sitting to a standing position and/or ambulation over ground. Walking trolley - electric is designed especially to help patients to stand up.



WARNING 📤

To avoid injury, always read this Instruction for Use and accompanied documents before using the product.



Read Instruction for Use.

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Foreword

Thank you for choosing Koval equipment.

Your walking trolley belongs to a family of high-quality products intended to be used in medical facilities, hospitals, nursing homes, rehabilitation units and other types of healthcare settings. Do not hesitate to contact us in case of queries about the operation or maintenance of your Koval equipment.

Please read this Instruction for Use thoroughly.

Thoroughly read and understand this Instruction for Use (IFU) before using your walking trolley. Information from this IFU is essential for proper operation and maintenance of the equipment. Follow these to keep your product safe and to ensure the functioning of your equipment to your satisfaction. Some of the information from this IFU is important for your safety; therefore, please read and understand to prevent any injuries. The product may only be used for its intended purpose.

WARNING

Unauthorized modifications of the Koval equipment may affect its safety. Koval will not be held responsible for any accidents, incidents or lack of performance as a result of any such unauthorized modifications.

Reporting Unexpected Operations or Events.

In case of unexpected operations or events contact Koval or your local Koval representative. The Koval contact information is printed on the last page of this IFU.

Serious Incident

In case of a serious incident in relation to this medical device involving the user or the patient; the user or the patient must report this serious incident to the medical device manufacturer or the distributor. The user must always report such serious incident to the local competent authority.

In the European Union, the user should also report the serious incident to the local competent authority in the member state where they are located.

Servicing and Support

Your walking trolley should be checked once a year by qualified personnel to ensure the operating safety of your product. See Care and Regular Yearly Checkups section. For further

information please do not hesitate to contact Koval or your local Koval representative to receive comprehensive support and servicing to maximize long-term safety, reliability and value of the product. For spare parts contact Koval or your local Koval representative. The Koval contact information is included on the last page of this IFU.

Definitions in this IFU:

WARNING



Safety warning. Failure to understand and follow this warning may result to personal injuries.

CAUTION

Failure to follow these instructions may cause damage to all or parts of the system.

NOTE

Describes important information about the correct use of this system or product.

When using this product always follow the appropriate WARNINGS.

Intended Use

This equipment is intended to assist a patient with a walking disability (neurogenic, muscular, or orthopaedic in origin) to regain lost motor function, which may include rising from a sitting to a standing position and/or ambulation over ground. **Walking trolley - EL is designed especially to help patients to stand up.**

The device is intended for use in environment of care, such as senior/assisted living, special care facilities, medical facilities, hospitals, nursing homes, rehabilitation units and other healthcare settings. The device is intended specifically for indoor use. This product should be used according to the intended purpose and these safety instructions. Everyone using this equipment should read and understand these instructions, which are included in this Instruction for Use (IFU). In case of doubts feel free to contact Koval or your Koval representative at any time.

This walking trolley is intended to be used by appropriately trained caregivers familiar with the environment of care, as well as its common practices and procedures, and must follow the guidelines in the Instruction for Use (IFU). Walking trolley should only be used for intended purpose specified in these Instruction for Use. Use for any other purpose is prohibited.

Product lifetime

The expected product lifetime is ten (10) years depending on the storage conditions and the frequency of use. The warranty period of the product is three (3) years.

Depending on the storage of the battery, the use frequency and the charging intervals, the expected lifetime of the battery is 2-5 years.

Some product parts, such as casters, armrest upholstery as well as handset, which are subjected to wear, may need to be replaced during the device lifetime according to information in the Instruction for Use (IFU).

Transport damage

Upon delivery check the product and the packaging for damages. Observe the delivery date: visible damages should be reported within 2 days after delivery and hidden damages within 7 days after delivery.

Safety Instructions

WARNING

To prevent explosion or fire never use this product in an oxygen rich environment, near heat sources or flammable anesthetic gases.

WARNING 🗘

To prevent the device from tipping do not raise or lower other equipment, such as a bed, shower trolley, lift, or a bedside table, close to it and pay attention to the stationary object when lowering or lifting.

WARNING

To avoid tipping and falling do not use the equipment on floor with recessed drains, holes or slopes exceeding a ratio of 1:50 (1.15°).

WARNING

To prevent electric shock never use this device in close proximity to other electrical equipment.

WARNING

To prevent injuries the patient must never be left unattended if this is necessary according to the patient state.

WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm to any part of the Shower trolley, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Assembly of Walking Trolley

Follow these steps:

- 1 Unpack the walking trolley.
- 2 Remove all protective foil and foam from casters and padded armrest.
- 3 Position the handles in an upright position and tighten the PVC bolt on each handle.
- 4 The walking trolley is now ready for use no further installation is required.

Preparations

Before First Use (10 Steps)

1 Visually inspect the walking trolley for transport damages.

WARNING 📤

There is a 2-day deadline for reporting visible damages and a 7-day deadline for reporting hidden damages.

- 2 The packaging should be recycled according to local regulations.
- 3 Confirm that all parts of the product have been included in the package. Refer to Parts Designation section. In case of missing or damaged parts do NOT use the product!
- 4 Read the IFU.
- 5 Disinfection of the product should be carried out according to Cleaning and Disinfection Instructions.

- Perform functionality testing of walking trolley. Refer to Care and Regular Yearly Checkups section.
- 7 Charge the battery for 24 hours.
- 8 Store the walking trolley in a dry, well-ventilated place out of direct sunlight.
- 9 IFU should be kept in a designated area and should be easily accessible at all times.
- Have an emergency response plan readily available in case of a patient emergency.

Before Every Use (6 Steps)

1 WARNING <u>↑</u>

To avoid injury, check for proper operation of basic functions before use.

- 2 Check that all parts are in place.
 - Refer to the Parts Designation section.
- 3 Carefully inspect the product for damages.
- 4 In case of missing or damaged parts do NOT use the product!
- 5 WARNING <u>A</u>

To prevent cross-contamination always follow the disinfection instructions from this IFU.

6 Make sure that the battery is charged.

Walking Trolley Driving Directions

The driving direction during transport, as well as the left and right side are illustrated below (sides are marked pursuant to patient position).



Parts Designation



- 1 Walking trolley base
- 2 Casters with a brake Ø100 mm
- 3 Height adjustable armrest support frame
- 4 "Z" armrest bracket
- 5 PVC bolt for adjusting armrest
- 6 PVC bolt for adjusting handle
- 7 Left armrest

- 8 Right armrest
- 9 Right handle with rubber grip
- 10 Left handle with rubber grip
- 11 Electric actuator
- 12 Control box
- 13 Emergency stop button
- 14 Handset

Product Description / Functions

A walking trolley is an all-wheeled device designed to assist a patient with a walking disability (neurogenic, muscular or orthopaedic in origin) to regain lost motor function, which may include rising from a sitting to a standing position and/or ambulation over ground. The walking trolley comprises of a mobile rigid framework fixed on non-powered wheels, which includes a width-adjustable armrests, adjustable handgrips and an electronic control box for powered functions, such as variable height support. The device is non-foldable and includes a braking mechanism.

The device is intended to be operated by the nurses or caregivers in environments of care, such as senior/assisted living, special care facilities, medical facilities, hospitals, nursing homes, rehabilitation units and other health care settings. The equipment is intended for indoor use.

The armrest with 50 mm of seamless padding provides maximum comfort and is easy to clean.

The walking trolley includes four swivel casters with diameter of 100 mm for improved manoeuvrability. All casters are furnished with a brake. The walking trolley provides a stable support to the patient when walking.

The walking trolley height is adjustable with electric actuator from range 880 to 1280 mm. Electric actuator can help a patient to stand up. Armrest and handles are adjustable by width from 170 to 290 mm. Safe working load is 170 kg.

The metal frame is electrostatically powder coated.

WARNING

To avoid damage to the product, use the products exclusively to transfer patients. Transferring other objects is strictly prohibited.

WARNING

To avoid damage to the equipment, the walking trolley should exclusively be used indoors.

WARNING

To avoid injury, ensure weekly monitoring of all walking trolley functions.

Adjusting the height of walking trolley



The height of the walking trolley can be adjusted with a handset.

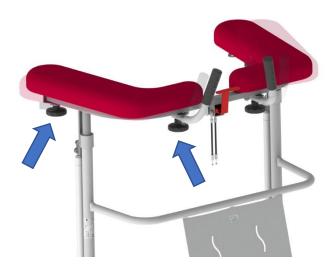
Unhook the handset from its holder.

Press the up arrow for lifting or down arrow for lowering.

Adjusting the armrest and handle of the walking trolley

Unscrew the PVC bolt under the armrest. Set the desired width of the armrest and tighten the PVC bolt.

Unscrew the PVC bolt under the handle. Set the desired position of the handle and tighten the PVC bolt.



Brakes

All casters have a brake:



Casters Ø100 mm with brake. Brake each caster individually.

WARNING



When accommodating the patient all the brakes must always be applied to prevent patient falls.

WARNING



To avoid injury, always lock the brakes when walking trolley is stationary.

The Control Box and Battery Use

The complete system consists of a control box and a battery enclosed in a single elegant module. The walking trolley batteries must be charged at least 24 hours before first use or, if possible, longer to ensure proper functioning and prolong the lifetime of a battery.



Control box

Batteries do not require any type of maintenance, only recharging.

WARNING



Battery must be replaced by qualified personnel.

WARNING 🗘



To avoid injuries do NOT crush, puncture, open, dismantle or otherwise mechanically interfere with the battery.

WARNING 1



If contents of the battery come in contact with your eyes, immediately rinse with plenty of water and seek medical attention.

WARNING 🔔



Inhalation of the battery contents can cause respiratory irritation. Provide for fresh air and seek medical attention.

Charging

The green LED on the control box indicates that the power supply is on. When charging the battery the yellow LED will blink during charging and change to a constant yellow light when fully charged. The battery charger is designed to automatically adapt to the voltage and frequencies of 100–240V~/50–60Hz and is provided with an automatic battery charge limiter.

WARNING

To prevent damages to the battery, the battery must never be completely drained. After an audible alarm is triggered, the control box must not be used and the battery must immediately be charged.

WARNING

Use only original charging cable supplied by the manufacturer.

WARNING 🔔

Make sure that the mains voltage corresponds to the voltage on the rating plate of the battery charger.

WARNING 🔔

Always remove the charging cable before use.

WARNING 🔔

Check the charging cable every week.

WARNING

The battery can only be charged directly via the walking trolley when there is no one using it.

NOTE: Replace the charging cable every 3 years

Charging Intervals

- Charging the battery on a daily basis improves the charging capacity and extends its service life.
- To prolong the life of the battery charge the battery at regular intervals, i.e. every night.
- To prolong the life of the battery disconnect the battery during prolonged storage.

Storage of Batteries

- The battery is charged upon delivery, but we recommend you to recharge the battery upon receipt to slow down self-discharge.
- The battery will slowly self-discharge when not used.
- A battery, which is not used, must be stored at a temperature between -10°C and +50°C and relative humidity from 20% to 80% non-condensing.
- For maximum battery performance, store the battery at a temperature bellow 50°C.
- Batteries must be recharged at least every three months.

Battery Service Life

If you just charged the battery and the battery LED indicator starts to flash and beep after a few operations are carried out, it is time to order a new control box.

NOTE: Duty cycle: 10% or 2 min of continuous use followed by 18 min of non-use.

NOTE: To avoid loss of operation, charge the battery when the warning audible alarm sounds.

NOTE: To discard control box with the battery turn to the local authorities for advice.

Emergency Stop Button

If, for any reason, the electric walking trolley cannot be controlled via the handset buttons, stop the movement of the walking trolley by pressing the emergency stop button (see Figure 1). In this case, contact qualified personnel for help. If you press the red emergency stop button on the control box, all the battery powered functions will be switched off.

If the emergency stop button is pressed unintentionally, it can be reset by turning the button clockwise until it springs out.



Control box

If the handset fails to work, lower the walking trolley via an emergency button located on the front cover of the control box (see Figure 2).



Buzzer indication:

- Battery: when the battery reaches about 25% of capacity, the buzzer will sound continuously when the handset is activated.
- Overloading: the control box will beep twice if the actuator becomes overloaded (exceeds the current limit) the current will be cut-off and the actuator will stop. The actuator can be started again when the actuator is no longer overloaded.
- Overheating: the control box will beep twice if overheated the current will be cut-off and the actuator will stop. The actuator can be started again when the temperature returns to normal.

Using the Electric Walking Trolley

Use for rehabilitation purpose (assistance needed)
From a Chair, Wheelchair, Bed or a Toilet
(8 steps)

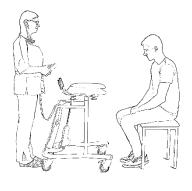


Fig. 1

- 1 Always inform the patient of what you are about to do.
- 2 Set the walking trolley height to the lowest position by pressing the down arrow on the handset and approach the patient.
- 3 Adjust the width of the armrests to increase patient comfort (see Fig. 1).



Fig. 2

- 4 Position the walking trolley to allow the patient to lean on the armrests.
- 5 Apply the brakes on all casters (see Fig. 2).
- 6 Help or encourage the patient to grab both handles and use them to stand up (see Fig. 2).



7 Assist/help the patient to stand up by pressing the up arrow on the handset (Fig. 3).

Fig. 3



Fig. 4



Fig. 5

8 Release the brakes and allow the patient to walk (see Fig. 4 and Fig. 5).

WARNING

To avoid patient falls, make sure that the patient is positioned in accordance with this IFU.

WARNING 🗘

When accommodating the patient all the brakes on the equipment must always be applied to prevent patient falls.

To a Chair, Wheelchair, Bed or a Toilet

(4 steps)

- 1 Help the patient to the chair and apply the brakes on all casters (Fig. 4).
- 2 Lower the armrest support frame by pressing the down arrow on the handset (Fig. 3).
- 3 Ask the patient to sit down while holding the handles (Fig. 2).
- 4 When the patient is seated, release the brakes on all casters and move the walking trolley to the side (Fig. 1).

WARNING



To avoid patient falls, make sure that the patient is positioned in accordance with this IFU.

WARNING 🗘



When accommodating the patient all the brakes on the equipment must always be applied to prevent patient falls.

For home use (no assistance needed)

From a Chair, Wheelchair, Bed or a Toilet (8 steps)



Fig. 1

- 1 Make sure that the armrest support frame is in the lowest position by pressing the down arrow on the handset.
- 2 Adjust the width of the armrests to ensure your comfort and adequate support.
- 3 Position the walking trolley to allow you to lean on the armrests (see Fig. 1).



- 4 Apply the brakes on the casters if needed.
- 5 Stand up by holding on to the handles (see Fig. 2).

Fig. 2



Fig. 3

6 Set the desired hight by pressing the up arrow on the handset. The actuator can help you to stand up (see Fig. 3).

7 Release the caster brakes.



Fig. 4

8 After that you can start walking (see Fig. 4).

To a Chair, Wheelchair, Bed or a Toilet

(6 steps)

- 1 Approach the chair (Fig. 4).
- 2 Apply the brakes on the casters if needed.
- 3 Lower the armrest support frame by pressing the gas spring release lever (Fig. 3).
- 4 Sit down while holding the handles (Fig. 2).
- 5 Release the caster brakes.
- 6 When seated move the walking trolley to the side (Fig. 1).

Cleaning and Disinfection Instructions

The walking trolley is recommended to be cleaned and/or disinfected regularly between each use, if necessary, or daily, as a minimum. If the walking trolley is soiled or in case of suspected contamination, follow the recommended cleaning and/or disinfection procedures below before using the equipment.

Clean the walking trolley with a damp cloth using warm water and a disinfectant cleaner. Control box with a built-in battery, handset and an actuator must be cleaned with a damp cloth.

To ensure proper cleaning and disinfection always follow the steps below:

Cleaning / Disinfection (Steps 1-8)

- 1 Wear protective gloves and goggles.
- 2 Mix the disinfectant according to the instructions on the product label or according to the mixing ratio in the IFU.
- 3 Apply the disinfectant on the walking trolley.
- 4 Allow for disinfection time according to the instructions on the product label.
- 5 Use a clean cloth to wipe all surfaces especially handles, armrests and handset.
- 6 Use a new cloth soaked in water to remove all traces of disinfectant. When removing disinfectant periodically rinse the cloth under running water.
- 7 If the traces of disinfectant cannot be removed, spray water with a temperature of approx. 25°C (77°F) on the affected parts and wipe with disposable towels. Repeat until all traces of disinfectant are removed.

8 Leave the parts to dry.

Repeated cleaning / disinfection should have no effect on the equipment during its expected service life of equipment.

Regularly clean with mild detergents to extend product lifetime.

WARNING



WARNING

To prevent cross-contamination always follow the disinfection instructions in this IFU.

WARNING

To avoid eye and skin damage always use goggles and gloves. In case of contact rinse with plenty of water. If eyes or skin becomes irritated, immediately contact a physician. Always read the IFU and the Material Safety Data Sheet (MSDS) of the disinfectant label.

WARNING

Do not use a steam washer, washing tunnel, or high pressure jet cleaners.

WARNING

Do not clean the surface with abrasive sponges and cloths.

WARNING

Electrical equipment must be disconnected from mains power before cleaning.

WARNING 🗘

The product should always be cleaned between patients.

Care and Regular Yearly Checkups

The walking trolley is subject to normal wear and tear; therefore, the following actions should be performed as specified to make sure that the product retains its original manufacturing specification.

Koval or your local Koval representative shall carry out a regular yearly checkup by prior agreement.

WARNING 🔔

To avoid malfunction resulting in injury make sure to carry out regular inspections and follow the recommended maintenance schedule. In some cases, due to heavy use of the product and exposure to aggressive environment, more frequent inspections should be carried out. Local regulations and standards may be more stringent than the recommended maintenance schedule.

NOTE: Do not carry maintenance and servicing while the product is used

Caregiver Obligations	AFTER	Every	Every
	EVERY USE	WEEK	YEAR
Disinfection	X		
Visually check all exposed parts		X	
Visually check mechanical attachments		X	
Perform functionality testing		X	
Check the handset and the cables		Х	
Check and clean casters		Х	
Visually check control box		X	
Check upholstery		Χ	
Regular yearly checkups by qualified personnel only			Х

WARNING

To avoid injuries of the patient and caregiver never modify the equipment or use incompatible parts.

Responsibilities of the Caregiver

Responsibilities of the caregiver shall be carried out by personnel with sufficient walking trolley knowledge following the instructions in this IFU.

Every day

Daily

Disinfection

• Disinfect the walking trolley immediately after every use. Use recommended concentrations of standard disinfectants and cleaning agents. For additional cleaning/disinfecting instructions see Cleaning and Disinfection Instructions section.

Weekly

Visually check all exposed parts

• Particularly check areas exposed to physical contact with the patient or the caregiver. Check for potential cracks or sharp edges that could lead to injuries by the patient or the caregiver or that could become unhygienic.

Test functionality by:

- Verifying that the armrest support frame is working/sliding smoothly.
- Verifying that the handles and armrests are easy to adjust.
- Verifying that the electric actuator is working smoothly raising and lowering
- Checking the brakes.

Check the handset and cable

Visually check the condition of the handset and its cable.

Checking and cleaning casters

• Check that all casters are securely fixed and can rotate and swivel freely. Always clean with water (the functioning can be affected by soap, hair, dust and chemicals from the floor cleaning solutions).

Visually check control box

Visually check the condition of the control box and its cable.

Checking the upholstery

• Verify that there are no cracks or tears. In the event of damage replace damaged parts to avoid cross contamination (see Parts Designation section).

Yearly Checkups by Qualified Personnel Only

Walking trolley must be checked once a year in accordance with the Maintenance and Repair Manual.

WARNING

To avoid injuries and/or diminished safety of the product the maintenance activities must be carried out at set intervals by qualified personnel with appropriate tools and parts, as wells as proper knowledge of the procedures. Qualified personnel must be certified for the maintenance of this device.

NOTE: All Caregiver Obligations are to be checked when performing the Qualified Personnel Service.

Walking Trolley Storage and Transport

The walking trolley must be stored in a dry, well-ventilated area at room temperature and out of direct sunlight (UV-radiation). The storage temperature must range from -10°C to +50°C, storage humidity must range from 20% to 80%. Atmospheric pressure: 500 to 1060hPa. Set the armrest support frame to its lowest position and slide the armrests inwards. Avoid excessive pressure on the upholstery during storage.

CAUTION:

Failure to lock the casters in the braking position can cause the walking trolley to move automatically.

Walking Trolley Operating Conditions

The operating temperature must range from +5°C to +40°C. Humidity must range from 20% to 80% and atmospheric pressure must range from 700 to 1060hPa.

Technical Specifications

11992100 - WALKING TROLLEY - EL



Height adjustable armrest support frame via electric actuator Handles with adjustable width

Armrests with adjustable width:

- external dimensions from 640 to 770 mm,
- internal dimensions from 370 to 490 mm

Seamless padding (50 mm)

Swivel casters with brake Ø 100 mm
Walking trolley Length: 750 mm
Walking trolley Width: 720 mm
Walking trolley top Height: 880-1280 mm

NOTE: We reserve the right to technical changes.

Measurements can deviate for +/- 2%.

SAFE WORKING LOAD / MODEL	WEIGHT
SWL	170 kg
WALKING TROLLEY - EL	22 kg

Electric system (Technical specification)

Control box

- Protection class: IPX4
- Approx. 40 cycles per charge
- Mounting without a bracket
- Soft start
- Emergency stop button
- Buzzer sounds if battery capacity is low (2–10 cycles left)
- Front cover with: green LED for handset activation, yellow LED for charging, button for electrical lowering in case of emergency
- Internal charger (100VAC-240 AC (50/60Hz)



Usage:

- Duty cycle: max. 10% or 2 min of continuous use, followed by 18 min. without operation
- Ambient temperature + 5°C to + 40°C
- Storage temperature: 10°C to + 50°C
- Relative humidity: 20% to 80% non-condensing
- Atmospheric pressure: 700 to 1060hPa
- Height above sea level: max. 3000 meters
- Approvals: IEC60601-1, ANSI/AAMI ES60601

Mains cable

Length 3 m, 2 wires, cross section $0.75 \text{ } mm^2$.

Handset

- Housing colour: Light grey
- Protection class: IPX6 (washable)
- Number of buttons: 2
- · Cable: Coiled
- Button type: Easy touch tactile switches
- Attach: Via hook

Usage:

- Ambient temperature: + 5 °C to + 40 °C
- Storage temperature: 10 °C to + 50 °C
- Approvals: IEC60601-1:2005 3rd edition, ANSI/AAMI

ES60601-1:2005 3rd edition, and CAN/CSA-22.2 No 60601-1:2008.

Handset is designed and tested according to IPX6

washable in conformity with EN60601-2-52 cl.

201.11.6.6.101 (Machine washable medical beds)



Actuator

• 24VDC permanent magnet motor

• Thrust of 1500N in "push" and 1500N in "pull"

• Speed: 22.5 mm/s

Protection class: IPX6



Usage:

• Duty cycle: max. 10% or 2 min of continuous use, followed by 18 min. without operation

Ambient temperature +5°C to +40°C

Approvals: IEC 60601-1, ANSI/AAMI ES60601-1 and CAN/CSA-22.2 No 60601-1

Electromagnetic compatibility – general: The actuator systems bear the CE marking as an certificate of compliance with the EMC Directive 2014/30/EU. The systems are designed to meet all requirements of applicable standards and have been tested to meet the requirements of the IEC 60601-1-2 Standard.

Emission

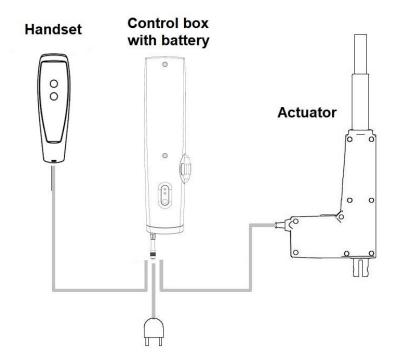
LINAK Actuator Systems are CISPR 11, Group 1, Class B products, and comply with IEC 61000-3-2, Class A and IEC 61000-3-3.

WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING 🗘

Mains plug is considered as disconnecting device from the mains. Make sure, that socket outlet is easily reachable and accessible to the operator.



Low Voltage Directive (LVD)

Actuator systems are in compliance with the Low Voltage Directive (LVD) (2014/35/EU). LVD ensures that electrical equipment within certain voltage limits provides a high level of protection for European citizens.

BF-type protection

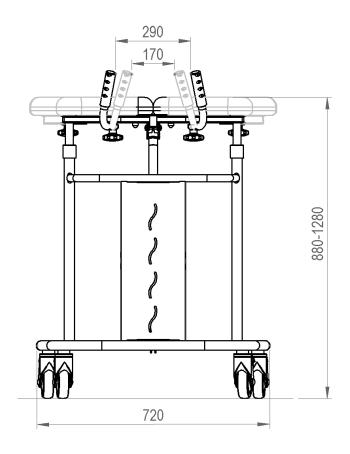
Entire Product Type BF Applied part: Protection against electric shock in accordance with EN/IEC 60601-1.

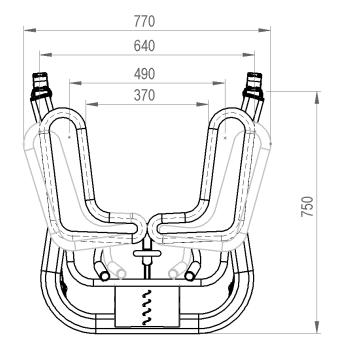


Control box	IP X4		
IP	Ingress Protection		
X	The protection against contact and ingress		
	of objects is not specified for this product		
4	Protect from splashing water regardless		
	of the direction they come from.		
	Water splashing against the enclosure from		
	any direction shall have no harmful effect,		
	utilizing either:		
	a) an oscillating fixture, or b) a spray nozzle		
	with no shield. Test a) is conducted for 10		
	minutes; test b) is conducted (without		
	shield) for 5 minutes minimum.		
Handset, Actuator	IP X6		
IP	Ingress Protection		
X	The protection against contact and ingress		
	of objects is not specified for this product		
6	Protect from powerful water jets.		
	Water projected from powerful jets		
	(12.2mm) against the enclosure from any		
	direction shall have no harmful effects.		

End of Life Disposal

- All batteries in the product must be recycled separately. Batteries are to be disposed in accordance with national or local regulations.
- Upholstery and any other polymers or plastic materials etc. should be sorted as combustible waste.
- Lift systems having electrical and electronic components or an electrical cord should be disassembled and recycled per Waste of Electrical and Electronic Equipment (WEEE) or in accordance with local or national regulation.
- Components that are primarily made up of different kinds of metal (containing more than 90% metal by weight), should be recycled as metals.





Troubleshooting

Troubleshooting for the Walking Trolley - EL

NOTE: If the product does not work as intended, immediately contact Koval or your local Koval representative for support.

PROBLEM	ACTION	
The electric walking trolley raises or lowers	1 Activate the emergency stop button.	
after the handset buttons are released.	2 Remove the patient from the walking trolley	
	and contact qualified personnel.	
The electric walking trolley does not raise or	1 Make sure the emergency stop button is not	
lowers when the handset buttons are	activated by turning the red button clockwise.	
activated.	2 Make sure that the battery is charged.	
	3 Check connections and wiring.	
	4 Do not exceed the maximum load.	
	5 Wait for the system to cool down to the	
	normal operating temperature. Observe the	
	operating times and intervals (duty cycle).	
	WARNING 📤	
	To prevent injuries the patient must never be left unattended.	
	6 Clean the sliding pipes on the armrest	
	support frame.	
The walking trolley is emitting abnormal	Remove the patient from the walking trolley	
noise during lifting/lowering or transport.	and contact qualified personnel.	
Battery is not charging.	1 Check the mains connection and supply	
	voltage.	
	2 Reset the battery by rotating the	
	emergency button.	
	3 If these solutions do not help, contact	
	qualified personnel.	
Difficulties when manoeuvring the walking	1 Verify that the brakes are released.	
trolley during transport.	2 Verify that all casters rotate and swivel	

	3 If the problem still persists, remove the
	patient from the walking trolley and contact
	qualified personnel.
The manually adjustable armrest is difficult	1 Check the armrest mechanism ("Z"
to adjust.	bracket) for damage.
	2 Clean the armrest mechanism.
	3 Contact qualified personnel.
The manually adjustable handle with a	1 Check the handle pin for damage.
rubber grip is difficult to adjust.	2 Clean the handle fixing point.
	3 Contact qualified personnel.
ALARM	ACTION
ALARM The audible battery alarm beeps constantly.	ACTION The battery must be charged – complete the
	The battery must be charged – complete the
	The battery must be charged – complete the transfer in progress and charge the battery.
	The battery must be charged – complete the transfer in progress and charge the battery. WARNING To prevent injuries the patient must
The audible battery alarm beeps constantly.	The battery must be charged – complete the transfer in progress and charge the battery. WARNING To prevent injuries the patient must never be left unattended.
The audible battery alarm beeps constantly. The audible battery alarm starts to beep	The battery must be charged – complete the transfer in progress and charge the battery. WARNING To prevent injuries the patient must never be left unattended. If using a freshly charged battery and the

NOTE: If the problem cannot be solved with the written troubleshooting actions, please contact qualified personnel.

NOTE: Before contacting our qualified personnel, be sure to prepare the serial number (SN) or the catalogue number (REF). You can find the SN on the product label located on the right side of the walking trolley base (see Label placement section). If the label text is damaged or the label is missing, be sure to have the delivery note or invoice number. This identification number helps reduce waiting times and improves service quality.

Labels

Label explanation

Manufacturer	Catalogue number,	
and	Serial number, Batch	
Identification	code, Model name,	
Data label Manufacturing date,		
	Manufacturer, Safe	
	working load.	
Labels on	Manufacturer, product	
electrical	data.	
components		
2211421101110		

Symbol explanation

SWL A	Safe working load
	Product weight
	Read the Instruction for Use (IFU) before use
<u>^</u>	Caution
	Manufacturer
	Manufacturing date
	Distributor
	Indoor use

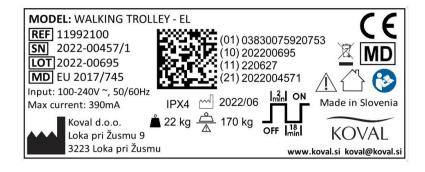
REF	Catalogue number
SN	Serial number
LOT	Batch code
MD	Medical Device
ϵ	European Conformity Mark
*	Type BF, Applied part: protection against electrical shock in accordance with EN/IEC 60601-1.
	Separate electrical and electronic components for recycling in accordance with the European Directive 2012/19/EU
Duty Cycle 10% Max. 2min/18min	Duty cycle: 10% or 2 min of continuous use, followed by 18 min not in operation
24VDC	Supply voltage
2.9Ah	Capacity
IPX4	Protection against splashing water
	Apply the brake

1	Temperature range
%	Humidity range
€••	Atmospheric pressure range

Label Placement



Product label:



Approvals and List of Standards

Product complies with the European Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices:

- Classified as Class I medical devices as set out in Annex VIII of Regulation (EU) 2017/745
- Complies with the provisions of Regulation (EU) 2017/745 "Medical Devices" and meets the essential requirements set out in Annex I of Regulation (EU) 2017/745
- The conformity for the purposes of the CE marking and conformity assessment according to the procedure from Annex IV of Regulation (EU) 2017/745
- The product also complies to the requirements of the following standards:
 - EN 12182:2012;
 - EN ISO 15223-1:2017-02 (eq. EN ISO 15223-1:2016);
 - SIST EN ISO 14971:2020 (eq. EN ISO 14971:2019);
 - EN 60601-1:2007;
 - EN 60601-1-2:2015;
 - EN 60601-1-6:2010.

Maintenance Record sheet

Date of Service	Completed Tasks	Technician	Signature	Next due

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Your care, our mission