

# User manual

Pedal platform electrical, for Carl surgeon chairs  
Mk2/Mk3, Mk4 and Carl 4 Foot/Heel



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## 1. Pedal platform

Thank you for choosing a Rini electrically controlled pedal platform

- Can be retrofitted to electrically controlled surgical chairs, Carl Mk2/Mk3 and Carl 4/Mk4
- Provides ergonomic comfort for the surgeon, who can individually adjust the platform to a comfortable height relative to the surgical chair using the up/down buttons
- After installation, the platform can easily be attached or detached from the surgical chair without the need for tools
- Easy to move the chair with the platform thanks to smooth-rolling wheels and a stable connection between chair and platform
- Easy to clean due to smooth surfaces and enclosed components

The platform has been developed to be connected to Rini surgical chairs Carl Mk2/Mk3 and Carl 4 Foot/Heel and Mk4. The aim has been to provide a platform for placing pedals used to control peripheral equipment such as microscopes or other devices used in microsurgery.

The platform is easily raised and lowered electrically using push buttons and features a built-in overload protection system that emits a warning sound if the load exceeds the maximum limit. Overall, the pedal platform, together with the Carl chair, provides the surgeon with a high-quality, customized working environment.

Rini continuously develops both existing and new products. We always place the user at the center and highly value feedback and ideas that drive our development forward. Please do not hesitate to share your thoughts about our products!

## 2. Important before use!



**For patient safety and to ensure the product's service life, it is important to read the following instructions before use. Please read this manual carefully and familiarize yourself with how the product should be used before putting it into use.**

### 2.1 Unpacking

Before unpacking the product, check that the packaging shows no signs of transport damage. If any damage is found, document it with a photo and report it immediately to the transport company as well as to Rini or your local Rini representative.

The platform packaging normally contains the following components:

- Complete platform with wheels and installed rechargeable battery

- Mounting bracket for the relevant Carl chair with coupling
- Battery charger and user manual



**Be careful when lifting the platform, as it is heavy and may cause personal injury. Do not use sharp objects when removing the packaging material, as this may cause damage.**

Ensure that all ordered parts are included in the delivery. In case of any discrepancies, contact Rini or your Rini distributor.

## 2.2 Instalation

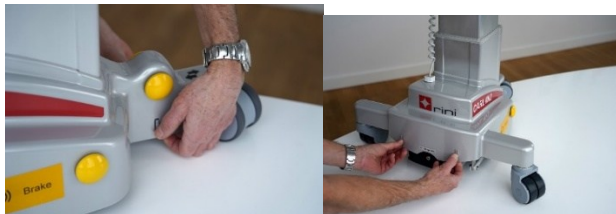
When the platform is delivered, it is not ready for use. The chair bracket and coupling must be installed according to the instructions below.

Place the platform and the chair on a stable surface and mount the bracket onto the chair using the supplied screws.

The transport lock for the platform is normally activated upon delivery and is released by pressing and holding the “Down” button (button placement may vary depending on the model) for approximately 7 second, release when a beep is heard.

### **Installing the platform bracket and coupling for Carl Mk2 / Mk3**

Raise the lifting column to approximately 100 mm above its lowest position. Release the snap fasteners at the front and back, and pull the plastic cover slightly upward..



Install the platform bracket using the supplied screws and tighten them securely. Pull the plastic cover down until it clicks into place.



Position the pedal platform in front of the Carl chair and attach the coupling frame between the chair and the platform

### **Installing the platform bracket and coupling for Carl Mk4 / Carl 4 Foot/Heel**

Apply the brake on the chair and tilt the backrest fully forward. Tilt the chair backward, ensuring that it rests on the armrest rails and not on the backrest. Remove one of the two upper screws located underneath the chair.



Install the platform bracket on one side, apply thread-locking compound, and tighten the screws almost fully so that the bracket can still rotate.



Now remove the second screw and pivot the bracket over the hole. Apply thread-locking compound and fully tighten both sides.



Tilt the chair back to its normal position, then place the pedal platform in front of the Carl chair and attach the coupling frame between the chair and the platform.



**For the safety of both personnel and equipment, you must read this user manual before use or have received the necessary training from Rini. Before using the product, ensure that:**

- The product is not damaged
- The height adjustment of both the platform and the surgical chair is ergonomically optimal
- The battery is charged

**Please contact your local Rini distributor if you have any concerns or notice any issues.**

## 2.3 Intended Use

The pedal platform, together with the Carl surgical chair, is designed for various types of microsurgery where the operator requires a platform with pedals at the correct height, as well as an ergonomic seated position with the possibility of flexible support for legs and arms.

The design of the platform in combination with the Carl chair provides the surgeon with a high degree of freedom of movement, while also allowing space for additional technical equipment at foot level.

Intended areas of use include:

- Neurosurgery
- Ophthalmic surgery
- Ear, nose, and throat (ENT) surgery
- Facial plastic surgery
- Handsurgery
- Robotic surgery
- Dental surgery



**The platform is intended for indoor use only and on hard flooring surfaces. The platform must not be equipped with any accessories or components other than those approved by Rini Ergoteknik AB. Repairs and other technical measures may only be carried out by personnel authorized by Rini Ergoteknik AB. The chair may only be used for the purposes specified in this manual. Any other use may pose a risk to the user.**



**The platform must not be raised or lowered when loaded with more than 40 kg / 88 lb. Please note that your seating position and the weight of your legs may affect the load. In a stationary static position, the platform may be loaded with a maximum of 150 kg / 331 lb.**

**The platform must be connected to the chair, and the chair's wheels must be locked with the brake during use. When transporting the platform together with the surgical chair, both the platform and the chair must be in their lowest position. The platform is not intended to be used as a step stool, for transporting persons, or as a lifting device for people.**



**Pinch hazard: Exercise caution when adjusting the platform height. Keep hands and feet away from the underside of the platform and ensure that no persons or objects are within the risk area. Always be aware of your surroundings..**

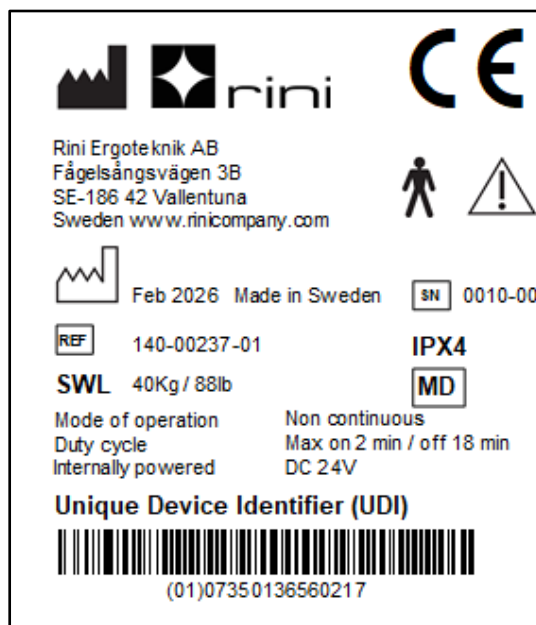
### 3. Product Classification and Key Data

The product is intended for use in hospitals, specialist clinics, or similar healthcare environments by professional personnel. The product's risk classification, in accordance with MDR 2017/745 Annex VIII, is "**Class I**". Previous generations and similar products are also classified as "**Class I**".



The product is traceable via a serial number, and Rini has post-market surveillance integrated into its quality management system, which is certified according to ISO 13485 for medical devices. Any incidents are reported to the relevant authorities in accordance with applicable regulations.

The product has been tested against applicable standards regarding General Safety and Performance Requirements, Demonstration of Conformity, and is subject to Risk Management in accordance with ISO 14971.

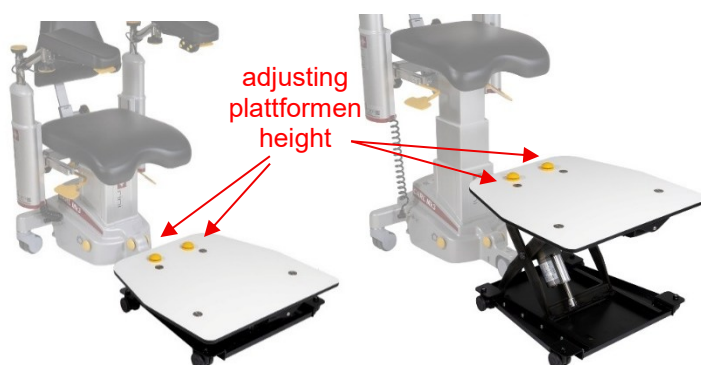
Technical specifications are provided in a separate section of this manual. Information about the manufacturer, as well as where and when the product was manufactured, can be found on the nameplate below. For any questions regarding this product, please state the UDI and SN for identification.



### Label description

	Warning, Risk present. Read the applicable information in the user manual.
	Type B applied part, Product with specific protection against electric shock.
SWL	Safe Working Load, The product must not be loaded beyond the specified weight.
IPX4	Protection against moisture: IPX4 rating indicates protection against splashing water.
Duty cycle	Duty cycle: Average ratio between operating time and rest time for the electrical actuators.

## 4. Platform basic adjustments



### 4.1 Undercarrige and wheels

The base design with four wheels combines stability with high accessibility to technical equipment, such as pedals placed on the platform.



**Always use the chair's brake during operation to prevent unintended movement of the platform and chair. When the platform and seat are in a raised position and the chair is subjected to a high load, the risk of tipping increases.**

### 4.2 Adjusting the Platform Height

The platform is raised and lowered electrically, with a design consisting of an actuator, control box, and battery pack. The height is controlled by two yellow buttons on the platform.



**The platform cannot be raised or lowered when loaded with more than 40 kg / 88 lb. The built-in overload protection is activated if the load exceeds the specified maximum.**

### 4.3 Limiting the Platform's Maximum Height

The platform's maximum height can be limited by changing the position of a microswitch on the control unit's circuit board.

## 5. Battery Operation and Charging

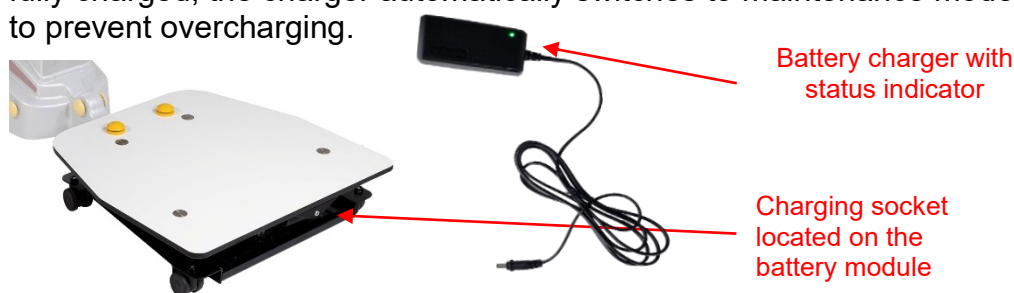
The platform is battery-powered and becomes operational as soon as the “Up/Down” buttons are pressed. Under normal working conditions, a fully charged battery can last up to 6 months. When the battery level drops below 20%, this is indicated during operation by a beeping sound.

The platform is supplied with a battery charger that supports 100–240 V mains voltage. The charging connector is located on the side of the platform, and the charging status is indicated on the charger (see below).



Regular charging of the battery is recommended, as full discharge reduces battery life. It is advisable to charge the battery monthly, but at least every six months, to avoid damage caused by self-discharge.

**To minimize the risk of damage to the charger and charging connectors, engage the chair’s brake during charging. This reduces the risk of the pedal platform being moved before the charging connector is disconnected.**

A new or fully discharged battery must be charged for 24 hours. Once fully charged, the charger automatically switches to maintenance mode to prevent overcharging.



Indicator on battery charger shows:

Status – when connected	Indicator
Battery is charging	
Battery not charging	

Batteries have a limited service life, and under normal operating conditions the battery module must be replaced after approximately four years. The year and month of manufacture are indicated on the battery’s nameplate.

If the operating time is significantly reduced despite 24 hours of charging, the battery module must be replaced.

When the battery level is low, it is possible to use the platform with the charger connected, but this is not recommended.

A new battery module can be ordered from Rini or a Rini distributor and is easy to replace.



Only the designated charger for the platform or the Carl chair must be used.

## 6. Cleaning and Maintenance

No part of the product normally comes into contact with the patient.

### Recommended Disinfectants

Part	Product	Additional information
Platform and push buttons	Noedischer Dekonta CCOTRADE RW	1-3% concentration 0,5% concentration

### Rekommended Cleaning Methods

Part	Product	Additional information
Platform and push buttons	Water and soap	Use a damp cloth
Battery charger	Water	Usa a damp cloth

### Repairs

The product may only be repaired by Rini or by a service center authorized by Rini. Products under warranty must be sent to Rini or an authorized service center.



**Unauthorized repairs or modifications may result in malfunction and will void the warranty.**

## 7. Safety

The product must only be used for its intended purpose. Improper use may result in injury to persons or damage to the product. Adequate knowledge of the product is required before use, and this manual must always be available in close proximity to the product. No accessories other than those specified in this manual may be used. Please observe the warning labels on the product.



**The warning label is used when there is a risk to the patient, staff, or the product.**

### 7.1 CE classification



**Pedalplatform 140-0237-xx complies with EU Medical Device Regulation 2017/745 for medical devices.**

**Tested accordance with EN/IEC 60601-1**

## 8. Technical specification

<b>Basic data</b>	
Unit weight	30kg /66lb
Lenght	575mm /22,6in
Witdh	Front 600mm /23,6in , back 460mm /18in
Medical classification	Class 1 Typ B
Standard	EN/IEC 60601
Protection class	IPX4
Battery rechargeable	24V 2Ah lead battery or 25.2V 2.6 Ah lithium battery
Charger	100 - 240V
<b>Operatng data</b>	
Lifting capacity	20kg /44lb, max weight static load 150Kg /331lb
Height adjustment	135 - 420mm /5,3-16,5in – foot operated push buttons
<b>Working condition</b>	
Temperature range	+5°C to +40°C
Relative humidity	20% to 90% at 30°C /86 °F
Air preassur	700 to 1060hPa
<b>Transport and storing</b>	
Temperature range	-10°C to +50°C /14 °F – 122 °F
Relativ humidity	20% to 90% at 30°C /86 °F
Air preassur	700 to 1060hPa

## 9. Disposal and Recycling

The product is primarily made of environmentally recyclable materials and consists of steel, stainless steel, aluminum, and plastics. Rini recommends that materials are sorted and recycled to the greatest extent possible when disposing of the product.



**Electronic components and cables should be handled as electronic waste in accordance with local regulations. The battery is of lithium type and must be disposed of in accordance with applicable environmental legislation.**

## 10. Warranty

In accordance with Rini's general terms and conditions, a warranty of one year from the date of purchase applies.

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