

# User Instructions

Hästens Lenoria



**Hästens** ®  
[www.hastens.com](http://www.hastens.com)





Sleeping in the best bed  
changes everything.

Welcome to the community  
of the well rested.

Hästens Lenoria is a natural continental bed with custom features, developed from Hästens' most comfortable continental beds. With your Hästens Lenoria you will enjoy not only a great sleeping experience, but also a great leisure experience.

With the simple press of a button you can raise the head of your bed to read, meditate or just relax. Press another button and the foot of the bed rises until you are in the perfect resting position. A button touch later, you can fall asleep in your bed's extended position and enjoy the beauty of true deep sleep.

# Safety Instructions

Read the user guide carefully before using the bed for the first time. Hästens Sängar AB cannot be held responsible for any injuries caused by incorrect use.

## WARNING

- Incorrect use will invalidate the warranty.
- Do not use the bed if the bed, motor or the power cord is damaged.
- Contact your local Hästens reseller for repair.
- Assembly and installation may only be done by authorized personnel.

Place the bed on an even, level surface.

Before using the bed, ensure that it can be raised and lowered freely so that nothing can become stuck or caught.

Ensure that the bed is in the flat position before sitting on it.

Always remove the plug when cleaning.

Always remove the plug when moving the bed.

Never allow the bed, the power cord or the plug to come into contact with water or any other liquid.

Do not allow the power cord to become caught under the wheels or between the moving parts.

Never use sharp or pointed objects in the bed.

The use of headboards that are not fully covered is not recommended, due to risk of getting stuck when adjusting the bed.

The bed shall not be used:

- in any environment where combustible or explosive gases or vapors may be present
- in a moist environment
- outdoors
- in any application that will be cleaned with an automated washing system, or
- for raising and lowering loads in industrial or technical applications or for any use within the household

The bed shall not be operated:

- by small children

- by frail or infirm persons without supervision, or
- in the proximity of small children

You should only use spare parts which have been manufactured or approved by Hästens Sängar AB. Only these parts will guarantee a sufficient level of safety. Use of parts that are not approved by Hästens Sängar AB will void warranty.

The battery-operated reset function is not a safety system and does not avert danger.

Keep transportation rails in case of moving.

Do not place the bed on carpets with long threads/yarns if shorter legs than 16 cm are used.

Do not use the bed with longer legs than 18 cm.

Duty cycle: after 2 minutes of continuous operation of the motor, the motor must rest for 18 minutes to prevent damage or overheating.

Only adjust head and foot end simultaneously for 3 seconds and let the motor rest for 18 minutes, to prevent overheating.

If legs with wheels are used the wheels shall be in a locked position before the bed is used.

Do not use water when cleaning the bed.

It is extremely important that the bed is positioned on a level surface, and that nothing such as walls or furniture can interfere with movement of the bed.

Failure to attach the sync cable on wide chassis before operation may result in damage to the bed and/or motors.

Use the correct plug for your country.

Always make sure that the sections can move freely before pairing with a RF or Bluetooth device.

Before lowering the head end make sure that nothing can get pinched between the frame and the footend.

Do not adjust the bed if it is not in sight.

Do not adjust the bed during cleaning/dusting.

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## EC DECLARATION OF CONFORMITY

Manufacture's name: Hästens Sängar AB  
Manufacture's address: Box 130  
SE-731 23 Köping  
Sweden  
Phone: +46(0)221-274 00  
Fax: +46(0)221-274 19

Product description: Continental bed with adjustable features  
Model name: Lenoria  
Commercial name: Hästens Lenoria

Product described above is in conformity with following directives:

Machinery Directive 2006/42/EC

Electromagnetic Compatibility Directive 2004/108/EC

The Radio and Telecommunications Terminal Equipment Directive 1999/5/EC (only for the 2.4 GHz wireless version)

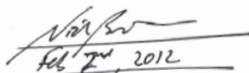
Restriction of Hazardous Substances Directive 2011/65/EU

Applied standards:

- EN ISO 12100: 2010
- EN 60335-1/A2:2006
- EN 55014-1:2006
- EN 55014-2/A1:2001
- EN 61000-3-2:2001
- EN 61000-3-3:2006
- EN 50371:2002 (only for the 2.4 GHz wireless version)
- ETSI EN 300440-2 V1.3.1 (only for the 2.4 GHz wireless version)

Technical file established by authorized person:

Name: Nick Braden  
Address: Box 130  
SE-731 23 Köping  
Sweden

  
Jul 2nd, 2012

Nick Braden  
CEO  
Washington, 7/2/2012

# Technical specifications

**CONNECTION TO MAIN POWER (AC)**

100/115/120/230/240 V AC 50/60 Hz

**CURRENT CONSUMPTION**

0.63 A AC - 6.3 A AC

**MINIMUM FUSE RATING**

10 A

**PERMITTED LOAD**

Max. 225 kg

**MODE OF OPERATION**

Intermittent duty: 2 min/18 min

**PROTECTION CLASS**

II

**NOISE LEVEL**

$\leq 65$  dB(A)

**PROTECTION CATEGORY**

IP20

**HEIGHT**

66.4 cm

**BATTERY OPERATED RESET FUNCTION**

One or two 9-V batteries (model 6LR61)

**FREQUENCY**

2.40 GHz

**LIGHT EMITTED FROM DIODES**

Laser class 1 (EN 60825-1:1994)

**BATTERY IN REMOTE**

1x CR 2032

**AMBIENT ROOM TEMPERATURE FOR STORAGE**

from  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

from  $-4^{\circ}\text{F}$  to  $122^{\circ}\text{F}$

**AMBIENT ROOM TEMPERATURE FOR OPERATION**

from  $+10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$

from  $+50^{\circ}\text{F}$  to  $+104^{\circ}\text{F}$

**RELATIVE HUMIDITY**

from 30% to 75%

**AIR PRESSURE**

from 700 hPa to 1060 hPa

# Package contents

The bed is delivered in the following packages:

## **CHASSIS PACKAGE:**

- Chassis with motor/s
- Instruction manual
- Remote control
- EPS
- Cable kit (EU, UK, US)
- Sync cable (ONLY for wide chassis and master chassis)
- Mattress-stop
- Bluetooth-unit

## **FRAME PACKAGE:**

- Wood frame
- Legs 16 cm
- Protective cover

## **BASE PACKAGE:**

- Base with transportation rails attached
- Mattress-stop cover

## **MATTRESS PACKAGE:**

- Mattress (ONLY when purchased with a mattress)

## **TOP MATTRESS PACKAGE:**

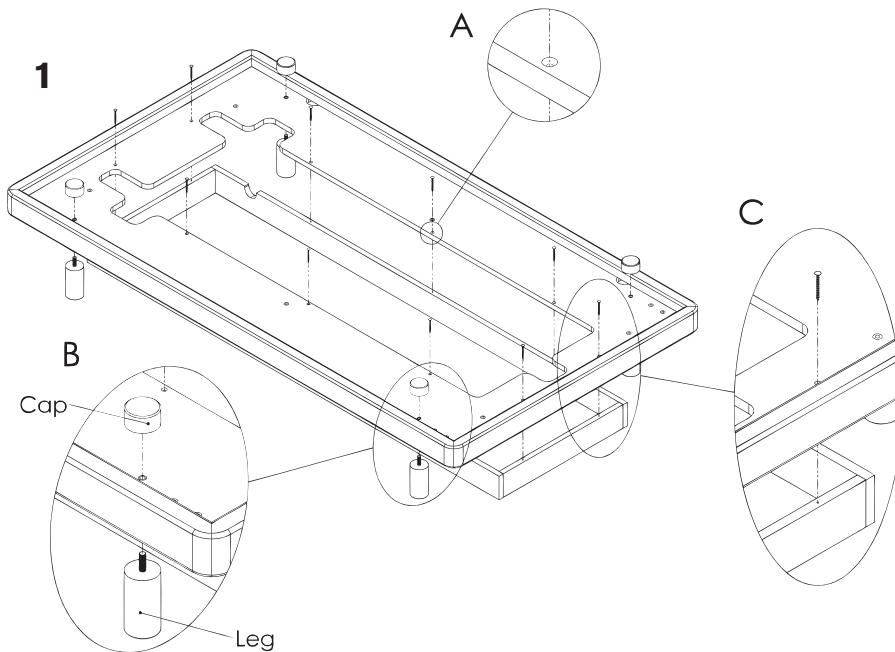
- Top mattress (ONLY when purchased with a top mattress)



# Assembly of single bed

Assembly and installation may only be done by authorized personnel. A minimum of two persons is required.

**⚠ CAUTION!** Do not use the bed if the bed, motor or the power cord is damaged.



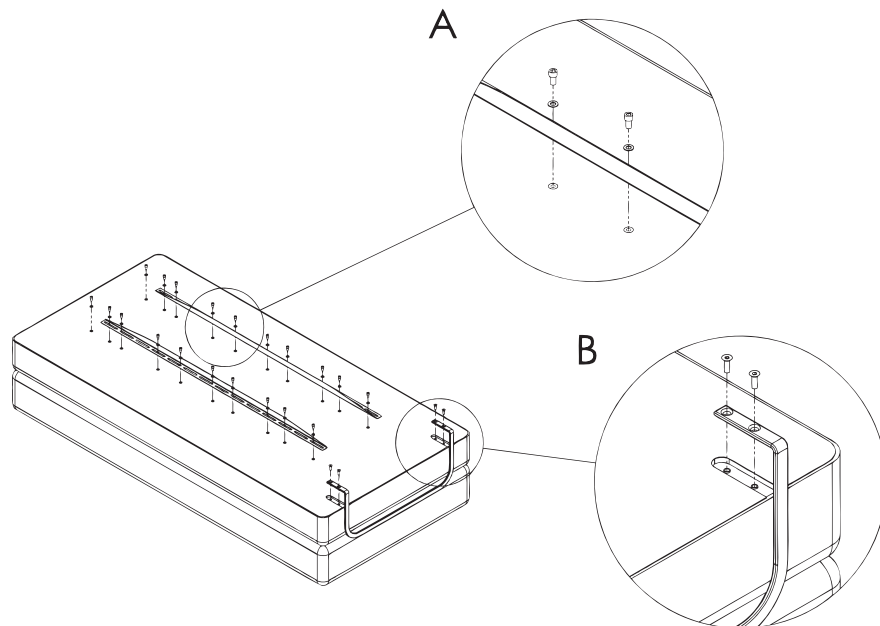
1. Allocate free floor space for double the bed size. Unpack the frame. Identify the upside of the frame (detail A).

Attach the legs to the underside of the frame (detail B).

Place the frame on the floor on the legs. Attach the protective cover for chassis on the frame (detail C).

2. Unpack the base package and place the base on the mattress (still packaged), bottom side up. Detach the transportation rails from the base, the bolts and washers will be used later (detail A).

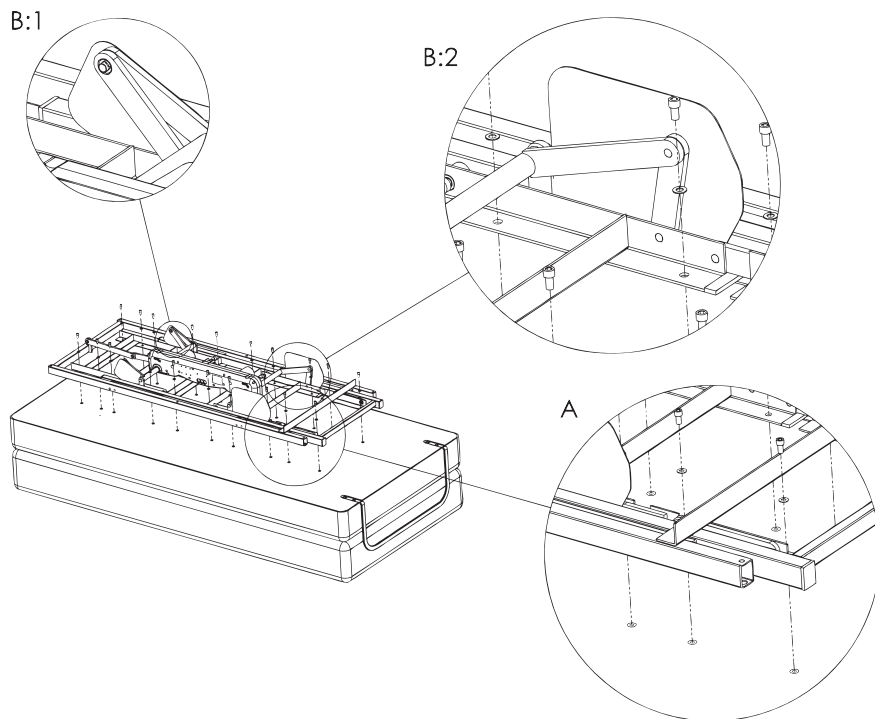
Attach the mattress-stop to the base (detail B).



3. Identify the foot-end of the base, it is where the mattress-stop is attached. Unpack the chassis. Keep the fixing straps in place. Identify the foot-end of the chassis. Place the chassis on the base with the foot-ends aligned. Remove the fixing straps from the chassis.

Attach the anti-crush guards in the position indicated between the chassis and sprung lower section. (detail B:1 and B:2)

Use the bolts and washers from earlier to attach the chassis to the base. (detail A)

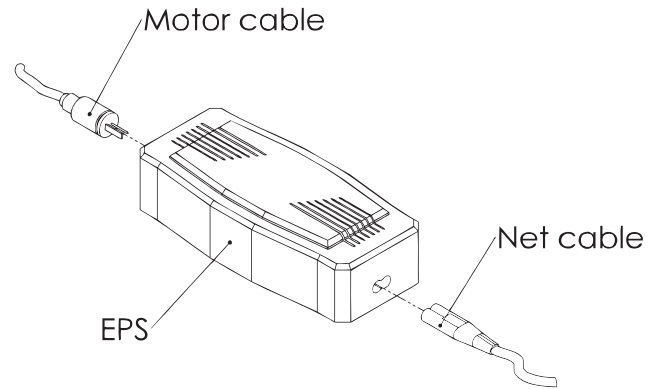


#### 4. Unpack the remote.

If batteries are included: Insert the batteries in the remote.  
Insert the cable from the motor into the EPS (see illustration at right). Insert the cable with the correct plug for your country into the EPS. Connect the plug to the electric socket.

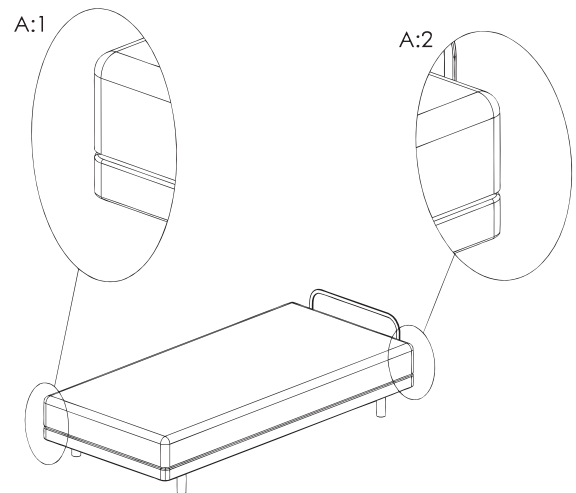
Pair the remote with the motor (chapter "Pairing the remote, page 13.") **⚠ CAUTION!** DO NOT press any other button/s on the remote. Failure may result in damage to the bed and/or motor/s.

Disconnect the plug from the electric socket. Wait until the light on the EPS go out.



#### 5. Unplug the motor cable from the EPS. Place the base with the attached chassis in the frame. Avoid scratching the surface of the frame. **⚠ CAUTION!** The head- and foot-ends are not in a fixed position. Lift with caution.

Make sure that the base and the frame is aligned (detail A:1 and A:2).

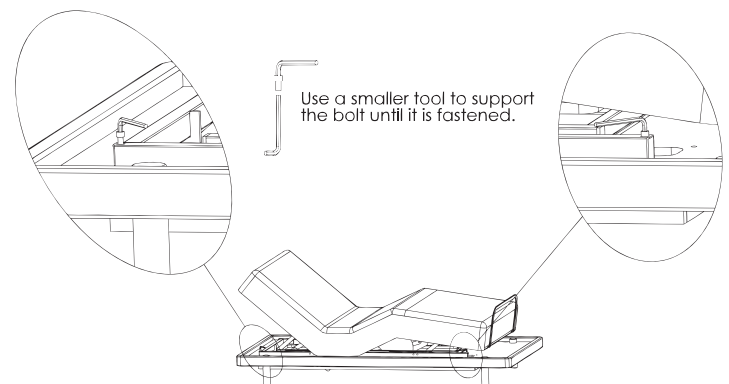


#### 6. Manually, make sure that the head- and foot-end can move freely. The base and frame shall still be aligned. Reattach the motor cable to the EPS. Connect the plug to the electric socket. Raise the head- and foot-end to the highest position with the remote.

Attach the chassis to the frame with the inset bolts (picture).

Put on the mattress-stop cover. Lower the head- and foot-end to the flat position. Unpack the mattress. Place the mattress on the base. Unpack the top mattress. Place the top mattress on the mattress.

On chassis with two motors and a sync cable: Raise the foot end to better locate the learning button on the motor. Press and hold the learning button on the motor. The motors will move to the home position (i.e. the head and foot end will move down). Release the learning button when the button has flashed 2 times.



# Assembly of double bed

## **TWO SINGLE BEDS CONNECTED BY SYNC CABLE:**

1. Assemble the two beds separately.
2. Connect the motors with the sync cable.
3. Raise the foot end to better locate the learning button on the motor. Press and hold the learning button on one of the motors. The motors will move to the home position (i.e. the head and foot end will move down). Release the learning button when the button has flashed 2 times.

## **TWO SINGLE BEDS IN DOUBLE FRAME WITH INDIVIDUAL MOVEMENT:**

1. Allocate free floor space for double the space of the bed size. Unpack the frame as for single bed.
2. Unpack base package as for single bed and pair the motor with the remote.
3. Unpack the second base package as for single bed and pair the motor with the remote.
4. Place the base with the attached chassis in the frame. Avoid scratching the surface of the frame. **⚠ CAUTION!** The head- and foot-ends are not in a fixed position. Lift with caution. Make sure that the base and the frame are aligned. Manually, make sure that the head-end can move freely. The base and frame shall still be aligned.
5. Attach the motor cable to the EPS. Connect the plug to the electric socket. Raise the head- and foot-ends to the highest position with the remote. Attach the chassis to the frame with the inset bolts.

6. Put on the mattress-stop cover.

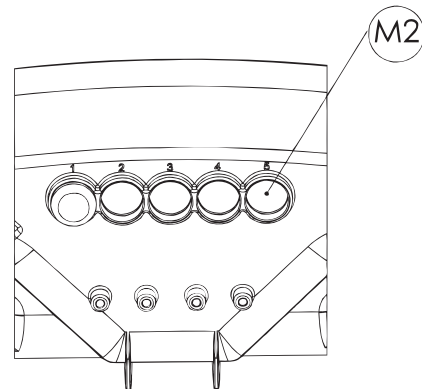
7. Lower the head- and foot-end to the flat position. Unpack the mattress/es. Place the mattress/es on the base. Unpack the top mattress/es. Place the top mattress/es on the mattress/es.

## **TWO SINGLE BEDS IN DOUBLE FRAME WITH SYNCHRONIZED MOVEMENT:**

- 1-7. Same as individual movement.

8. Connect the motors with the sync cable.

9. Raise the foot ends to better locate the learning button on the motor. Press and hold the learning button on one of the motors. The motors will move to the home position (i.e. the head and foot end will move down). Release the learning button when the button has flashed 2 times.



# Pairing the remote

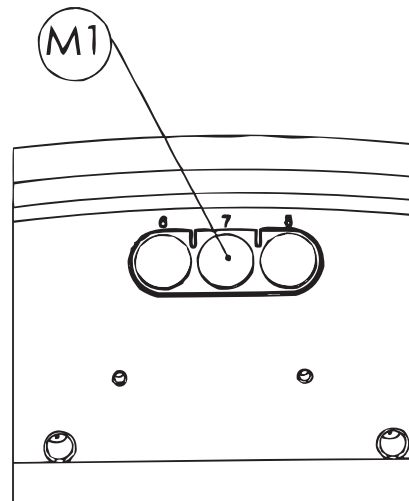
If you need to pair the remote with another motor.

Always make sure that the sections can move freely before pairing with a RF or Bluetooth device.

Insert the plug into the nearest outlet that will not interfere with movement of the bed.

On the side of the motor is a button (picture). Press this twice. The button will light up. **⚠ CAUTION!** Do not look straight into the light. While the button is lit, press and hold the HEAD END UP and HEAD END DOWN buttons on the remote simultaneously. Keep holding until the light on the motor go out or you hear a click from the motor.

The bed can now be controlled by the remote control.



# Remote control

## **TO RAISE THE HEAD END**

Press and hold the HEAD END UP button until the head section reaches the desired position. Release the button.

## **TO LOWER THE HEAD END**

Press and hold the HEAD END DOWN button until the head section reaches the desired position. Release the button.

## **TO RAISE THE FOOT END**

Press and hold the FOOT END UP button until the foot section reaches the desired position. Release the button.

## **TO LOWER THE FOOT END**

Press and hold the FOOT END DOWN button until the foot section reaches the desired position. Release the button.

## **HORIZONTAL BUTTON**

This button lowers the head and foot sections to the horizontal position simultaneously. Keep the button pressed throughout the lowering process. Once the bed is in the horizontal position, it will take a few seconds before all the functions have been reset and the motors can respond to the remote control again.

## **THE BATTERY-OPERATED RESET FUNCTION**

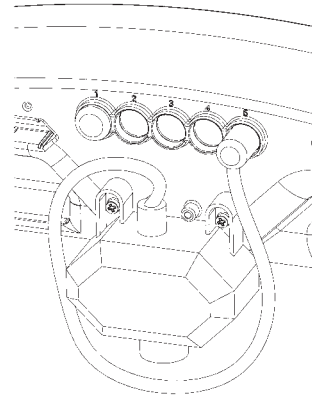
Connect the batteries. Press the learn/reset button on the motor. The head and foot sections will be lowered to the horizontal position. Replace the batteries.



# Bluetooth control

## MOUNTING OF BLUETOOTH ADAPTER

1. Place the bluetooth adapter as shown.
2. Fasten it with the screws provided.  
Tighten carefully!
3. Connect the adapter to the motor, contact 5 in the picture.
4. If the adapter will be used with sync cable, connect it to the bottom of the adapter.

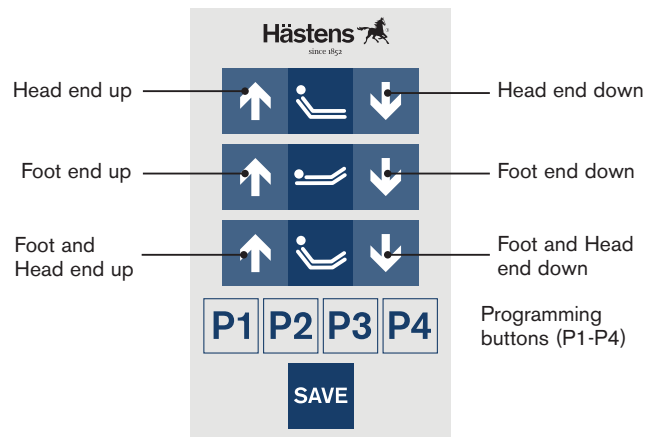


## INSTRUCTIONS BLUETOOTH CONTROL

1. Install the Hästens app from Android market
2. Start the Hästens app
3. Select the bluetooth adapter in the list of bluetooth devices.
4. You will be prompted to enter a PIN. This PIN is on the label of the bluetooth adapter.

## POSITION PROGRAMMING

1. Tap the Save button 3 times and when the P1-P4 buttons gets illuminated tap on the memory (P1-P4) to save the position to.
2. To recall a saved position tap and hold the memory (P1-P4) until the position is reached.



# Maintenance

Periodic visual inspection for housing damage.	Check the housing of the motor for breaks or cracks.	At least every six months.
Periodic visual inspection of the plug-in connections and electrical access points for damage.	Check that all electrical cables and connections are firmly seated and correctly positioned.	At least every six months.
Periodic visual inspection for cable damage.	Check the connecting cables for pinching or shearing. Also check the strain relief and kink protections mechanisms, in particular after any mechanical load.	At least every six months.
Periodic functional test of the end switches.	Move the head- and foot end to the highest and lowest positions.	At least every six months.

# Cleaning

Clean the wooden frame with a moist cloth. Clean the motor and chassi with a dry cloth.

# Moving

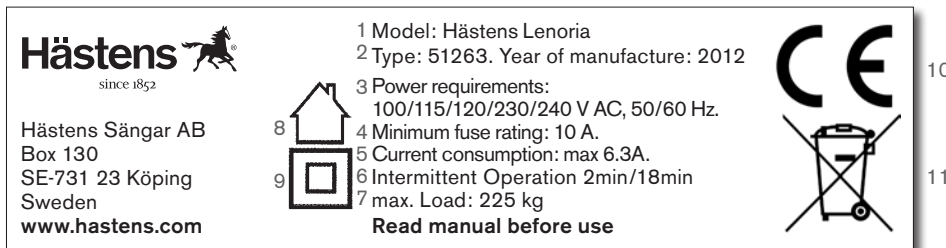
Contact your local Hästens reseller in case of moving.



# Product labeling






A ratings plate on each bed specifies the exact name of the drive. It also states the technical specifications valid for that particular bed. The following illustration shows where the specifications are located on the bed's rating plate.

The ratings plate shown is an example; the specifications for your bed may differ from this illustration.



1. The name of the bed model
2. The type number of the bed
3. Power requirements – The input voltage and frequency
4. Minimum fuse rating
5. Current consumption
6. Intermittent Operation time in minutes
7. max. Load
8. Use in dry rooms only
9. Protection class II
10. CE mark
11. Follow all special disposal instructions

## DISPOSAL

-  Do not dispose the steel chassis with household waste.
-  Do not dispose the motors with household waste.
-  Do not dispose the 9-V batteries with household waste.
-  Do not dispose the batteries in the remote control with household waste.
-  Do not dispose the remote control with household waste.

# Troubleshooting

The handset or adjustment of the bed is not functioning.

There is no main supply voltage.

The cables are not connected to the EPS.

There are no batteries in the handset, or the batteries are empty.

The handset or drive system is defective.

Connect the main supply.

Connect the motor to the EPS and the main cable to the EPS.

Replace the batteries in the handset.

Please contact your supplier or sales agent.

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The bed is suddenly not capable of moving.

There is no main supply power.

The cables are not connected to the EPS.

The batteries in the handset are empty.

Possibly the thermal circuit breaker in the motor has been triggered or is defective.

A lead-in connection has been interrupted (main power, handswitch or auxiliary drive).

Connect the main supply.

Connect the motor to the EPS and the main cable to the EPS.

Replace the batteries in the handset.

The drive system should be allowed to pause for 20 - 30 minutes.

Check the lead-in connections and re-seat the contacts if required.

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	The thermal fuse in the motor may have been triggered.	Please contact your supplier or sales agent.
	The motors fuse may have been triggered or may be broken.	Please contact your supplier or sales agent.
The battery-operated reset is not functioning.	The battery or batteries are empty.	Check the batteries and replace if necessary.
	Battery or batteries are not connected.	Connect the battery or batteries.
The head-end stops before reaching the horizontal position.	The bed is placed too close to the wall or headboard (placed on wall).	Move the bed further away from the wall.
	The headboard has been mounted too close to the bed.	Check that the headboard is correctly mounted.
	There is an obstacle in the path of the head-end.	Remove the obstacle.
	There is an obstacle in the path of the motor.	Remove the obstacle.
The foot-end stops before reaching the horizontal position.	There is an obstacle in the path of the foot-end.	Remove the obstacle.
The head-end stops before reaching the highest position.	There is an obstacle in the path of the head-end.	Remove the obstacle or move the bed away from the obstacle.
The bed cannot be operated with the remote and has to be temporarily raised.		Lift the head- or foot-end manually. Lower it slowly to avoid damage of the bed.
The bed cannot be lowered.	Power outage.	Lower the bed with the battery-operated reset function.

User instructions in multiple languages can be downloaded from [www.hastens.com/ownership](http://www.hastens.com/ownership)

Bruksanvisning på flera språk kan laddas ned från [www.hastens.com/ownership](http://www.hastens.com/ownership)

Brugervejledning på flere sprog kan downloades fra [www.hastens.com/ownership](http://www.hastens.com/ownership)

Bruksanvisning på flere språk kan lastes ned fra [www.hastens.com/ownership](http://www.hastens.com/ownership)

Käyttöohjeet eri kielillä ladattavissa osoitteesta [www.hastens.com/ownership](http://www.hastens.com/ownership)

Gebruiksaanwijzingen kunnen in verschillende talen gedownload worden op [www.hastens.com/ownership](http://www.hastens.com/ownership)

Gebrauchsanleitungen in mehreren Sprachen können von [www.hastens.com/ownership](http://www.hastens.com/ownership) heruntergeladen werden

Instrukcję obsługi w innych językach można pobrać z [www.hastens.com/ownership](http://www.hastens.com/ownership)

Instrucciones para el usuario en varios idiomas podrán ser descargadas desde [www.hastens.com/ownership](http://www.hastens.com/ownership)

As instruções de uso nas várias línguas podem ser vistas em [www.hastens.com/ownership](http://www.hastens.com/ownership)

Mode d'emploi en plusieurs langues peuvent être téléchargées ici: [www.hastens.com/ownership](http://www.hastens.com/ownership)

Istediğiniz dildeki kullanım talimatlarını [www.hastens.com/ownership](http://www.hastens.com/ownership) sayfasından yükleyebilirsiniz

Návod na použitie v rôznych jazykoch si môžete stiahnuť na [www.hastens.com/ownership](http://www.hastens.com/ownership)

Инструкцию по эксплуатации на нескольких языках можно загрузить с сайта [www.hastens.com/ownership](http://www.hastens.com/ownership)

Μπορείτε να κατεβάσετε τις οδηγίες χρήσης σε πολλές γλώσσες από την ιστοσελίδα [www.hastens.com/ownership](http://www.hastens.com/ownership)

A használati útmutató letölthető a [www.hastens.com/ownership](http://www.hastens.com/ownership) oldalról