Quality Declaration

Congratulations with your new hoist Invacare® Birdie™ from Invacare® EC-Høng A/S.

Your new hoist is CE-marked in accordance with directive 93/42/EEC concerning medical devices.

Invacare® Birdie™ is developed and constructed with consideration for the user and others handling or assisting with lifting. Furthermore, the hoist is developed in accordance with the European Standard EN 10535.

Invacare® Birdie™ is supervised and quality controlled throughout the entire production process, and the finished hoist is inspected by our finished goods control. Identification label and QA-mark are located on the hoist confirming that the finished goods control has approved the hoist.

Please read the entire user's manual before using the hoist.

Invacare® EC-Høng A/S is certified according to ISO 9001 and ISO 13485.

For and on behalf of Invacare® EC-Høng A/S:

[Signature]

Brian Mundeling
R & D Manager
Invacare® is a product inspected and tested by our quality control. Please read this user manual carefully before using the transfer lift.

During the entire production and manufacturing process, the Invacare® Birdie™ lift was designed and developed with consideration for the user and the person(s) who will assist in manipulating the lift.

The Invacare® Birdie™ lift is marked CE - in compliance with the 93/42/EEC directive regarding medical devices.

Congratulations on your new Invacare® Birdie™ lift! This lift has been designed and built with the user and their assistants in mind.

Invacare® EC-Høng A/S is certified ISO 9001 and ISO 13485.
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Thank you for choosing Invacare®’s Birdie™ mobile hoist. Invacare®’s Birdie™ are especially designed to lift the patient to and from wheelchairs, beds, toilets and floors. Birdie™ hoists offer easy handling and increased comfort within the nursing sector. The design of Birdie™ provides a longer reach, wider leg span and a wider lifting range.

The choice of either electrical or manual leg span combined with the large range of spreader bars and slings available from Invacare® makes it easy to adjust the hoist for optimum patient care.

Invacare® EC-Høng is certified according to DS/EN ISO 9001 and ISO 13485 which ensures that our customers are always supplied with products of uniform quality.

Throughout the entire production process, our materials and components are quality controlled by the operators. A final test is made when the product is fully assembled. If the product does not correspond to the quality demands of Invacare® EC-Høng, it will not pass quality control.

In the event of a problem in connection with the delivered product, please contact your local Invacare® supplier. Invacare® will take no responsibility if the product is used or assembled in any way other than stated in this user manual. Only accessories mentioned in this user manual may be used on the Birdie™ mobile hoists. This product must only be operated by qualified staff who has received the necessary instruction and training.

Please read this user manual carefully before you are using the mobile hoist.

1. General

- Birdie™, Birdie™ Plus and Birdie™ Compact are CE-marked in accordance with directive 93/42/EEC concerning medical devices.
- Birdie™, Birdie™ Plus and Birdie™ Compact have been tested and approved according to EN/ISO 10535.
- Control unit and motors have been approved according to EN 60601.
- Birdie™, Birdie™ Plus and Birdie™ Compact have undergone a risk analysis according to EN/ISO 14971.
- Control unit, motors and hand control are IPX4 protected.
- Lifting capacity: Birdie™ and Birdie™ Plus 170 kg, Birdie™ Compact 150 kg.
- The hoist has an expected lifetime of 8 years.
- The hoist will not operate when in charge mode.

Disconnect the charger from the hoist before moving or using the hoist. Make sure the mains cable is not squeezed or damaged when assembly or disassembly of the hoist or when moving the hoist.

If the functions of the hoist change, please see the section “Maintenance and cleaning”. This product must be serviced and maintained by qualified personnel.
Please be aware of the following possible risks when using the hoists:

- The hoist must be carefully supervised if the patient is a child.

- Please note that it is more difficult to manoeuvre the hoist on carpeted or uneven/textured surfaces as opposed to wooden or flat surfaces; this is due to the starting forces required to initiate the movement that may create additional friction exerted on the castors.

- It is recommended not to move the user with the jib at maximum height. Take great care when moving the hoist on carpeted, wet, slippery, rough or uneven surfaces. Never use on slopes.

- **Caution!** Never attempt to lift a patient outside the base area of the hoist. When lifting a patient from the floor, the patient must always be located between the two hoist legs, and never outside this area. To avoid injury, utmost care must be taken when raising and lowering a patient.

- **Invacare®** accepts no liability for any use, change or assembly of the *Birdie™*, *Birdie™ Plus* and *Birdie™ Compact* hoists other than as stated in this user manual.

- There is a risk of squeezing and entrapment during operation and transport of the hoist.

- Never exceed the maximum recommended lifting capacity.

- It is important that the cables do not become entrapped or jammed in moving parts and castors during operation and transport.

- **Important!** Invacare® recommend that operation of any mobile lifting equipment is carried out by personnel with prior professional training in moving and handling techniques.

- Always choose the sling design and size according to the patient’s weight, size and physical ability. Always ensure, that the sling is applied correctly. Never leave a patient in the sling unattended.

- Please ensure that the hoist is not exposed to water, as this can cause damage.

- Locking pin must be located into the base position when transporting the hoist. Failure to do so may cause injury during handling.
2. **Main parts of the hoist**

- **Mast**
- **Hand control**
- **Control unit**
- **Emergency stop**
- **Battery**
- **Locking pin**
- **Motor for operation of electric legs**
- **Base**
- **Left leg**
- **Right leg**
- **Castor**
- **Jib**
- **Carabiner**
- **Hook for sling**
- **Spreader bar**
- **Handle bar**
- **Manual emergency lowering handle**
- **Motor**
- **Battery**
- **Control unit**
- **Display**
- **Motor for operation of electric legs**
- **Tilt pedal**
- **Leg spreader handle (optional)**
- **Foot pedal**
- **Castor with brake**

*Birdie™ Plus*
3. Unpacking, assembly and disassembly of the hoist

- The packaging is developed for optimal protection of the hoist.
- If you return the hoist, it must be packed as delivered in the original box.
- You can order replacement boxes from Invacare®.

**Unpacking**

1. Should the packaging be damaged upon receipt, each part of the hoist must be examined for visible defects. In the event of any damage, please contact Invacare®.
2. Carefully take out and identify all the parts in the box.
3. The box contains the following parts:
   - 1 hoist
   - 1 mains cable
   - 1 user’s manual
   - 1 spreader bar
   - 1 manual leg spreader handle (optional)
   - 1 sling (optional)

To prevent self-discharging of the battery or accidental operation of the hoist, the emergency stop is activated during shipping. Please remember to deactivate the emergency stop and charge the battery prior to first use.

**Assembling of the hoist**

The hoists are easy to assemble without the use of tools.

1. Perform unpacking and assembly operation at floor level
2. Take out all the parts of the box (picture 1-4).
3. Apply castor brakes before assembling hoist.
4. Remove the locking pin and raise the mast of the hoist by pulling the handle bar (picture 5-6).
5. Insert the locking pin (picture 7 and 12-13 below). Ensure that the locking pin is correctly inserted as the picture 12.
6. Loosen the spreader bar by pulling it downwards (picture 8).
7. Remove the pipe pin. Assemble the motor and the jib by using the pipe pin (picture 9-10).
8. Correctly assembled hoist (picture 11).

**Activate the emergency stop before assembly or disassembly to prevent entrapment/squeezing.**
Remove optional leg spreader handle before disassembly.

**There is a possible risk of squeezing of both limbs and wires during assembly and disassembly of the hoist. Take the utmost care when lifting components during assembly – some parts are heavy. Always remember to adopt the correct lifting position.**

Ensure that the locking pin is correctly inserted.

Locking pin **correctly** inserted.

12.

Locking pin **incorrectly** inserted.

13.
Disassembling of the hoist
1. Lower the jib and narrow both legs completely, and activate the emergency stop button.
2. Apply castor brakes before disassembling hoist.
3. Remove the pipe pin and the motor piston from the jib, reinstall the pipe pin in the piston end, and lock the motor into the clips on the mast.
4. Attach the spreader bar into the welded fork on the mast.
5. Remove the locking pin from the base of the mast, release the safety latch, lower the mast, and relocate the locking pin into the mast near the suspension axle of the mast.

The hoist can now be located in the packaging box, pulled on the rear wheels, or parked in an upright position with the mast/jib assembly pointing upwards

4. Operating the hoist

Lifting capacity
Birdie™ and Birdie™ Plus: 170 kg.
Birdie™ Compact: 150 kg.

Operation of the manual leg spread
The manual leg span is operated by the 2 pedals on the leg section of the hoist. The pedals are operated from one side to the other to adjust the distance between the legs of the hoist.
The hand control has 2 buttons – one to raise and one to lower the jib.

1. Stand behind the hoist and take a firm hold of the handle bar using both hands.
2. Using your foot, press the left pedal on the base to increase the distance between the legs.
3. Using your foot, press the right pedal to decrease the distance between the legs.

Operation of the electric legs
The distance between the legs is controlled by 2 electric motors controlled by the hand control.
The hand control has 4 buttons: 2 for raising and lowering the jib and 2 for operating the electric legs.

Using the hand control
1. Press “arrow up” on the hand control to raise the jib.
2. Press “arrow down” on the hand control to lower the jib.
3. Operation of the electric legs.

Operating forces of buttons: Max. 5 N.

LED diodes on the control unit
Birdie™ and Birdie™ Compact - the upper yellow diode will blink during charging, and switch to continuous light when fully charged. The lower green diode will light continuously when the control unit is connected to the mains, and light up when any button on the remote control is pressed, or when the electric emergency lowering is activated.

Birdie™ Plus - the left green diode will light continuously when the control unit is connected to the mains. The yellow right diode will light continuously during charging, and go out when the battery is fully charged. There is no indication when hand control buttons are pressed, or when the emergency lowering/raising system is activated.
**Brakes**
1. Stand behind the hoist and take a good hold of the handle bar.
2. Press the pedals downwards by feet on the back castors to activate the brake.
3. Press the pedals upwards by feet to release the brake.

**Moving the hoist**
1. Stand behind the hoist and take a good hold of the handle bar.
2. Release the brakes of the back castors.
3. Now the hoist can be pushed or pulled to the desired location.

**Note:** To negotiate raised obstacles during movement of the unloaded hoist, it is recommended to pull the hoist backwards. This operation should only be performed when the hoist is in the unloaded condition.

**Tilt pedal**
The tilt pedal is used for tilting when the hoist must be moved from one room to another, to force a footstep. Place one foot on the tilt pedal, and pull the empty hoist rearwards to a suitable angle.

![WARNING! Never use the tilt pedal with a patient in the hoist.]

**Mounting the spreader bar**
The spreader bar is easy mounted and dismounted on the carabineer hook:
Open the carabineer hook with one finger, and mount or dismount the spreader bar.
Use only spreader bars made for the Birdie™ mobile hoists.
Make sure the spreader bar is suitable for the patient and the actual lift or transfer required.

![Carabineer correctly positioned on the lifting arm, ready for use.]

![Correctly attached spreader bar.]

![Easy opening of the carabineer by pushing the safety catch backwards with one finger and attachment of the spreader bar.]
**Fitting the sling**

Slings designed for 2- or 4-point spreader bars can be used with this mobile hoist, please refer to Invacare®’s sling brochure for details.

**Note:** The size of the sling and the width of the spreader bar should correspond.

1. Choose the most appropriate sling for the patient. The carer must be trained in the use of hoists before performing any transfers.
2. Carefully inspect the hoist and the sling. If defective parts are found, the damaged parts must be replaced.
3. Only use slings suited for the hoist and the patient.
4. Place the patient in the sling as described in the sling manual. Pay special attention to the fact that the sling is correctly applied.
5. Lower the jib and mount the straps of the sling. If the patient is in a sitting position, the jib must be lowered to chest height and the hoist must be moved as close as possible to the patient.
6. Make sure that there are no obstructions when raising the jib. Ensure that brakes are not engaged before lifting or lowering.

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**Caution!** Do not lift or lower a patient with the brakes applied. Always let the hoist find the correct centre of gravity. Make sure that the lifting area is between the legs of the hoist. **Never** operate the hoist when the patient is outside the base and leg area. Always be careful when lifting or lowering a patient. Never exceed the maximum recommended lifting capacity.

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**Charging the battery**

The hoists are equipped with an internal charger. It is recommended to charge the batteries regularly to ensure optimal use of the hoist and prolong the life of the batteries. Furthermore, it is recommended to charge the batteries before first use.

The control unit is equipped with a sound signal, which will beep when operating with low battery capacity. It is recommended to charge the batteries as soon as the sound signal is heard. In addition, *Birdie™ Plus* is equipped with a display, indicating the approximately remaining battery capacity.

**How to charge the batteries:**

1. Connect the mains cable to the control unit and plug it in. It takes about 4 hours to charge the batteries. Charging must take place in a room with good air ventilation. The charger stops automatically when the batteries are fully charged.
2. Remember to disconnect the charger cable before using the hoist again.

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The emergency stop must not be activated - otherwise it will be impossible to charge the batteries. While charging takes place the hoist cannot be used. Do not use or move the hoist without unplugging from the socket outlet. Do not attempt to use the hoist if the battery housing is damaged. Replace a damaged battery housing before further use.
5. Emergency lowering, emergency lifting and emergency stop

**Electric emergency lowering Birdie™, Birdie™ Compact and Birdie™ Plus**

If the hand control fails, the jib can be lowered by using the circular switch for emergency lowering. This is located at the front of the control unit. The jib will be lowered as long as the button is pressed. On Birdie™ Plus the button should be operated by means of a sharp object, such as a pencil.

**Birdie™ and Birdie™ Compact**

![Emergency lowering](image)

![Emergency lifting](image)

**Birdie™ Plus**

![Emergency lowering](image)

**Electric emergency lifting - Birdie™ Plus**

If the hand control fails, the jib can be raised by using the button for emergency lifting. This is located at the front of the control unit, and should be operated with a sharp object, such as a pencil. The jib will be lifted as long as the button is pressed.

**Manual emergency lowering - Birdie™ and Birdie™ Plus**

In case of partial or total power failure, or if the battery runs down while using the hoist, Birdie™ and Birdie™ Plus is equipped with a manual emergency lowering system located at the bottom of the motor. The weight is preset for 75 kg. If the patient’s weight is more or less than 75 kg, it might be necessary to adjust the manual emergency lowering.

**Adjustment of the manual emergency lowering - Birdie™ and Birdie™ Plus**

If the lowering speed has to be adjusted according to the patient’s weight, then the screw in the red release handle must be adjusted. Loosen to increase the speed and tighten to decrease the speed.

**Note:** Manual emergency lowering is only possible when a patient is sitting in the hoist.

**Emergency stop**

In case of emergency: Press the red button for emergency stop. The emergency stop can be reset by turning the stop button.

**Note!**

The mechanical emergency lowering system will only operate when there is a patient in the hoist. The mechanical emergency lowering system has to be adjusted according to the patient’s weight.
6. Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Ordering numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spreader bar, 350 mm, 2 points</td>
<td>1446274-0152</td>
</tr>
<tr>
<td>Spreader bar, 450 mm, 2 points</td>
<td>1507415-7012</td>
</tr>
<tr>
<td>Spreader bar, 550 mm, 2 points</td>
<td>1507417-7012</td>
</tr>
<tr>
<td>Spreader bar, 450 mm, 4 points</td>
<td>1507418-7012</td>
</tr>
<tr>
<td>Spreader bar, 550 mm, 4 points</td>
<td>1513442-7012</td>
</tr>
<tr>
<td>Castor, Ø75 mm, with brake, 1 pcs.</td>
<td>1510645-7012</td>
</tr>
<tr>
<td>Castor, Ø100 mm, with brake, 1 pcs.</td>
<td>1510803-0125</td>
</tr>
<tr>
<td>Castor, Ø75 mm, (electric Birdie™) with brake, 1 pcs.</td>
<td>1510802-7012</td>
</tr>
<tr>
<td>Castor, Ø100 mm, (electric Birdie™) with brake, 1 pcs.</td>
<td>1510804-0125</td>
</tr>
<tr>
<td>Castor, Ø125 mm, (Birdie™ Plus) with brake, 1 pcs.</td>
<td>1522073-0125</td>
</tr>
<tr>
<td>Castor, Ø75 mm, 1 pcs.</td>
<td>1510642-0125</td>
</tr>
<tr>
<td>Castor, Ø100 mm, 1 pcs.</td>
<td>1510643-0125</td>
</tr>
<tr>
<td>Handle for manual leg spread</td>
<td>1510505-9006</td>
</tr>
<tr>
<td>Packaging box (Birdie™)</td>
<td>1511776</td>
</tr>
<tr>
<td>Packaging box (Birdie™ Plus)</td>
<td>1514780</td>
</tr>
<tr>
<td>Packaging box (Birdie™ Compact)</td>
<td>1511779</td>
</tr>
<tr>
<td>Packaging insert (Birdie™ and Birdie™ Plus)</td>
<td>1511777</td>
</tr>
<tr>
<td>Packaging insert (Birdie™ Compact)</td>
<td>1511778</td>
</tr>
<tr>
<td>Polystyrene support (Birdie™ and Birdie™ Compact)</td>
<td>1513628</td>
</tr>
<tr>
<td>Polystyrene support (Birdie™ Plus)</td>
<td>1514781</td>
</tr>
<tr>
<td>Scale with display (for carabiner attachment)</td>
<td>1513627</td>
</tr>
<tr>
<td>Sling</td>
<td>See the sling brochure</td>
</tr>
</tbody>
</table>

7. Maintenance and cleaning

At normal daily operation, a service check-up should take place every year, according to the maintenance chart. When performing annual or regular maintenance, all parts designed to carry load must be as a minimum tested with maximum load. All safety features must be checked according to EN ISO 10535: 2006 Annex B.

The hoist must be stored at normal room temperature. If it is stored in a damp, cold or wet environment then the motor and other mounting parts may be prone to corrosion.

- The hoist have been designed so that it requires a minimum amount of maintenance.
- It is recommended that the batteries are charged frequently, if possible every night, as it will extend the lifetime of the batteries and will ensure high performance.
- It is recommended that the hoist is cleaned after use.
- Please check that the spreader bar connections, control unit and motors are in good working order and not damaged in any way. If there is any damage to the hoist, refrain from using it, and contact your local Invacare® dealer before further use.

Wear and damage of loading parts

It is necessary to maintain and check all parts that are exposed to static or dynamic strain, such as the sling, the spreader bar and the turning points, do not have fractures, are fragile, askew or damaged. Damaged parts must be replaced before further use.

Cleaning

- To prevent cross-infection, the hoists must be cleaned after use.
- The hoist must be wiped with a moist firmly wrung cloth with ordinary household disinfectants.
- Only use officially approved disinfection detergents.
- Dry the hoist carefully after cleaning.
- Never use acids, alkaline or solvents for cleaning the hoist.

Motors, control unit and mounting parts can be destroyed if the hoist is cleaned in any other way than stated above.
## Maintenance chart

Only personnel having received the necessary instruction or training by Invacare® must perform service and maintenance on Birdie™, Birdie™ Plus and Birdie™ Compact.

<table>
<thead>
<tr>
<th>Serial number (located on the hoist base):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
</tr>
<tr>
<td>Visual inspection of all hoist parts:</td>
</tr>
<tr>
<td>Inspection of the spreader bar and carabiner - welding and assemblies:</td>
</tr>
<tr>
<td>Inspection of the motors - undamaged:</td>
</tr>
<tr>
<td>Inspection of cables and plugs - undamaged:</td>
</tr>
<tr>
<td>Inspection of emergency stop, electrical emergency lowering and raising (only Birdie™ Plus):</td>
</tr>
<tr>
<td>Inspection of the castors - attachment, braking ability and free rolling:</td>
</tr>
</tbody>
</table>

Invacare® offers courses in service and maintenance of the hoist.

For all servicing and maintenance requirements, please contact your local Invacare® dealer.

## 8. Waste disposal

This product has been supplied from an environmentally aware manufacturer that complies with the Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/CE.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

The ‘crossed out wheelie bin’ symbol is placed on this product to encourage you to recycle wherever possible.

Please be environmentally responsible and recycle this product through your recycling facility at the end of its life.
## 9. Trouble-shooting

Only personnel having received the necessary instruction or training by Invacare® must perform service and maintenance on Birdie™, Birdie™ Plus and Birdie™ Compact.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The mast seems loose</td>
<td>The mast axis screw has become loose</td>
<td>Insert the locking pin into the mast axis screw, and tighten the screw</td>
</tr>
<tr>
<td>Castors are noisy</td>
<td>Dust or dirt in the castors</td>
<td>Clean the castors</td>
</tr>
<tr>
<td>Hinge between jib and mast is noisy during operation</td>
<td>Missing lubrication</td>
<td>Lubricate the hinge</td>
</tr>
<tr>
<td>The motor is not running</td>
<td>Hand control or motor is not connected</td>
<td>Insert the plugs fully</td>
</tr>
<tr>
<td></td>
<td>No power on the battery</td>
<td>Charge or replace the battery</td>
</tr>
<tr>
<td></td>
<td>The red emergency stop is activated</td>
<td>Turn the red button clockwise to deactivate</td>
</tr>
<tr>
<td>Motor noise, but no movement in the piston rod</td>
<td>Motor is damaged</td>
<td>Replace the motor</td>
</tr>
<tr>
<td>The piston rod only moves in and not out</td>
<td>Motor is damaged</td>
<td>Replace the motor</td>
</tr>
<tr>
<td>The control unit emits a beeping sound during lifting, and the jib motor stops (Birdie™ and Birdie™ Compact).</td>
<td>Max. load is exceeded</td>
<td>Reduce the load (and the hoist will function normally)</td>
</tr>
<tr>
<td>The jib motor stops (Birdie™ Plus)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact your dealer if the above does not solve your problems.
Lubricate with medically clean oil, e.g. Kemitura Kem Lub KEM-WO 50, order no. 813239.
10. Technical specifications

Diagram showing various dimensions and the direction of travel.
| General specifications | Manual and electric | Birdie™ Plus | Manual  
|---|---|---|---
| Castor | Ø 75 mm | Ø 100 mm | Ø 100 mm + Ø 125 mm | Ø 75 mm | Ø 100 mm  
| Maximum lifting capacity | 170 kg | 170 kg | 150 kg  
| Lowest position (min. height of CSP**) | 65.5 cm | 67 cm | 67 cm | 73 cm | 74.5 cm  
| Lifting area (height range) | 46.5 - 168.5 cm | 47.5 - 170 cm | 47.5 - 170 cm | 51.5 - 158.5 cm | 53 - 160 cm  
| Maximum height of CSP** | 189 cm | 190.5 cm | 190.5 cm | 180 cm | 181.5 cm  
| Leg length | 115 cm | 116.5 cm | 100 cm  
| Minimum internal width | 58 cm | 58 cm | 46 cm  
| Total width (closed), external measure | 65.5 cm | 68 cm | 68 cm | 53 cm | 55 cm  
| Internal width at maximum reach | 91 cm | 91 cm | 78 cm  
| Total width (open), internal measure | 104 cm | 104 cm | 89 cm  
| Total width (open) centre to centre of castor | 108.5 cm | 108.5 cm | 93 cm  
| Turning radius | 140 cm | 140 cm | 107 cm  
| Weight, mast, incl. battery, excl. spreader bar | 21 kg | 21.5 kg | 17.5 kg  
| Total weight incl. spreader bar | 42 kg | 44 kg | 36 kg  
| Weight, leg section | 19 kg | 21 kg | 16.5 kg  
| Height to upper edge of legs | 10 cm | 11.5 cm | 11.5 cm | 10 cm | 11.5 cm  
| Min. free height | 2 cm | 3.5 cm | 3.5 cm | 2 cm | 3.5 cm  
| Min. space for patient (to motor) in top position | 34 cm | 34 cm | 30 cm  
| Maximum reach at 60 cm | 66.5 cm | 66.5 cm | 54.5 cm  
| Maximum reach from base | 66.5 cm | 66.5 cm | 54.5 cm  
| Reach from base with legs spread to 70 cm | 24 cm | 24 cm | 41.5 cm  
| Hoisting range | 123.5 cm | 123.5 cm | 107 cm  
| Voltage output | 24 V max. 250 VA  
| Voltage supply | 100 - 240 V 50/60 Hz  
| Max. current input | Max. 200 mA | Max. 400 mA | Max. 200 mA  
| Operating temperature | 5° to 40° C  
| Air humidity | 20% to 90% @ 30° C - not condensing  
| Sound pressure | 45-50 dB(A)  
| Atmospheric pressure | 700 to 1060 hPa  
| Protection class, control unit | IPX4  
| Protection class, hand control | IPX4  
| Protection class, motor | IPX4  
| Insulation class | II - type B  
| Working ability | 40 full lifts without battery charge with batteries at 50% of full capacity  
| Intermittents | 10%, max. 2 minutes/18 minutes  
| Battery capacity | 2.9 Ah | 2.9 Ah + display | 2.9 Ah  
| Manual emergency lowering | Yes | Yes | No  
| Electric emergency lowering/lifting | Yes/No | Yes/Yes | Yes/No  

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*Numbers in the table represent different specifications for each model. The asterisk (*) indicates specific measurements for each model. Manual and electric models include Birdie™, Birdie™ Plus, and Manual Birdie™ Compact. The table provides comprehensive information on dimensions, weights, and other technical specifications for each model.
All measurements are given including a 45 cm 2 point spreader bar, except dimensions marked with *. Invacare® reserves the right to change the measurements without warning.

** CSP: Central Suspension Point

1: Highest position, 2: Maximum reach position, 3: Lowest position

11. Symbols

The patient is not separated from the ground and the chassis:

Direct current:

Alternating current

Double insulated:

\[ X \text{ kg max. load (SWL)} = (\text{Patient + sling + spreader bar).} \]

\[ X = 150 \text{ kg (Birdie™ Compact)} \]

\[ X = 170 \text{ kg (Birdie™ and Birdie Plus™)} \]

The product should be reused where possible:

Refer to user’s manual:
## Customer Sales and Service

<table>
<thead>
<tr>
<th>Country</th>
<th>Contact Information</th>
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<tr>
<td><strong>Denmark</strong></td>
<td>INVACARE A/S</td>
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<td>Sdr. Ringvej 37</td>
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<td><strong>Belgium &amp; Luxemburg</strong></td>
<td>INVACARE N.V.</td>
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<td>Autobaan 22</td>
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<td>Route de St. Roch</td>
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<td><strong>Spain</strong></td>
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<td>Poligon Industrial de Celrà</td>
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<td><strong>Portugal</strong></td>
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<td>Rua Estrada Velha 949</td>
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Invacare® EC-Høng A/S  
Ident. no.: 1515013  
Version: 03  
Date: 05.2009  

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3rd party certified according to  
**EN ISO 9001**  
**EN ISO 13485**

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**Manufacturer:**  
INVACARE EC-Høng A/S  
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