



Invacare® ScanBeta NG
Child cot

User manual
Brugsanvisning
Bruksanvisning
Brugsvejledning
Manuel d'utilisation
Gebruiksaanwijzing

EN
DA
SV
NO
FR
NL



This manual must be given to the user of the product.
Before using this product, read this manual and save for future reference



Yes, you can.®

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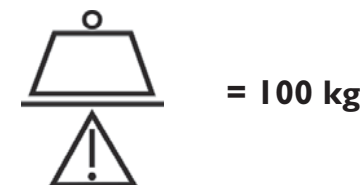
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Foreword

Congratulations with your choice of the *Invacare*[®] **ScanBeta NG** cot.

- The total load on the **ScanBeta NG** cot should not exceed 100 kg. (SWL = Patient + mattress + sides + other equipment).
- The **ScanBeta NG** cot is designed for patients requiring residential or home care nursing, in hospitals and other healthcare institutions.
- The **ScanBeta NG** cot combines stability with ergonomic design, making it easy to disassemble and operate.
- The **ScanBeta NG** cot must only be used in accordance with this user manual and safety instructions.

Patient max. weight



Please read the entire user manual before using the cot.

You are welcome to contact *Invacare*[®] with any questions regarding the use or maintenance of the cot.

All instructions regarding left and right assume a patient is lying in the cot.

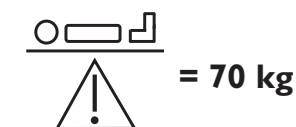
Please note that there may be sections of this user manual, that are not relevant for your cot, as the manual is applicable (at the time of publication) for all existing models.

I. General information

I.1 Intended use

- The **ScanBeta NG** cot has been designed for patients with limited mobility and for use in home care, hospitals and other healthcare institutions.
- The **ScanBeta NG** cot should only be used by patients whose body weight does not exceed 70 kg.
- The **ScanBeta NG** cot can be adjusted to give the patient good ergonomics and the carer a good working position.

Max. load (SWL)



Depending on the model, the backrest, leg and thigh section or the whole mattress support can be adjusted using either the hand control or manually.

1.2 Certification and requirements

Invacare® is certified according to DS/EN ISO 9001 and ISO 13485.

This ensures the customers, that the product is always supplied in a uniform quality.

Throughout the entire production process the materials and products are quality controlled by the operators.

Once the product is assembled, a final test is carried out. The operator performing the test, which also includes checking all moving parts, motors and castors, signs the receipt for the product with his/her personal QA-number.

If the product does not meet *Invacare*® stipulated quality requirements, the product will be rejected.

If, contrary to our expectations, there should be any problem with the product, please contact your local *Invacare*® supplier.

- The **ScanBeta NG** cot is **CE**-marked in accordance with Directive 93/42/EEC on medical equipment.
- The **ScanBeta NG** cot has undergone risk assessment in accordance with EN ISO 14971:2008.
- The **ScanBeta NG** cot has been approved in accordance with the Nordic Requirement Specification.
- The **ScanBeta NG** cot has been approved in accordance with EN 60601:1996-03 and EN60601-1-2.

I.3 Explanation of labels and symbols



WARNING - This symbol indicates danger.
If the necessary precautions are not taken, it may result in personal injury or damage to the cot.

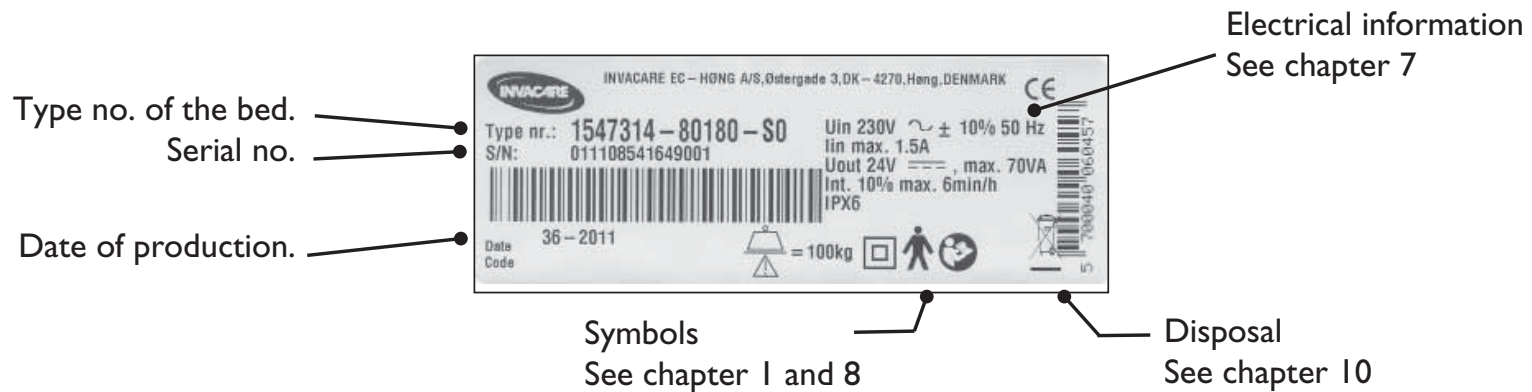


NOTE - This symbol indicates important information and instructions.



Instruction - Reference to the user manual.

To identify the cot, see product-label on the base.



I.4 Safety instructions and warnings

Before using the cot, **always** check the following:

- That the total load on the cot does not exceed 100 kg.
- That the cot is not damaged or does not function correctly for any reason.
- That the accessories for the cot are correctly fitted.



Invacare[®] does not accept any responsibility if used incorrectly, modified or assembled in any way other than described in the user manual. **ONLY** use approved accessories as stated in this user manual. Accessories that are not approved by *Invacare*[®] may not be used on the cot.



If the cot is damaged on delivery, it must not be used until the damage is rectified.
See delivery conditions.



The cot must not be used for patients over 12 years of age or by patients whose body size is the same as, or larger than, an average 12-year-old.



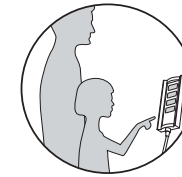
There is a risk that a patient might slip through the openings at the end of the cot. This may result in the patient becoming trapped or asphyxiated between the mattress support, bed sides and bed end plate.



When the cot is raised or lowered there may be a risk of the patient becoming trapped in between the moveable parts and mattress support.
Before adjusting the height, backrest, leg or thigh sections, the user must ensure that there are no blockages or persons close by that may hinder the movement of the cot.



It is recommended that the hand control is locked after each use.
Children must not play with the hand control.
If the hand control is used in an unauthorised way, there may be a risk that persons, especially children, may get trapped in or under the cot.



The patient must not use the hand control without prior assessment by care personnel



The mains cable must be kept clear of all moveable parts.
Pull the plug out of the wall socket before moving the cot.
The cables must be fitted so that they do not touch the floor or block the castors.



When the bed is not being used, the mains cable must be removed from the wall socket.



Due to the formation of condensation, the cot must not be used until it has reached a temperature of over 10°C.

2. On delivery

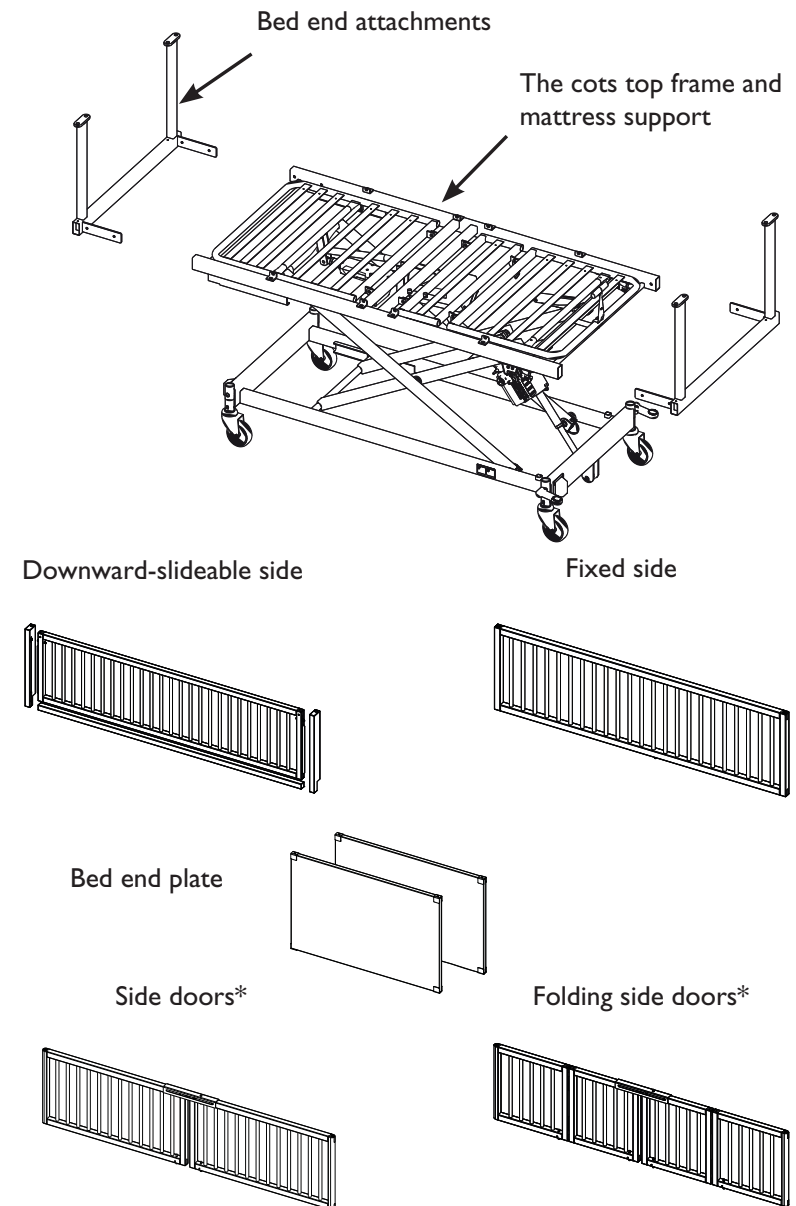
2.1 Parts of the cot

Check that the packaging/cot has not been damaged and that all parts are included. See illustration

There are several types of bed sides, and a cot may have the same type on both sides or have different types on each side. The bed end attachments and bed end plates should always be mounted on the cot in both ends.

There may be a difference between your product and the illustration, depending on which model and extra equipment you have chosen.

* The bed sides may be of plexi glass or laminate instead of wood. All illustrations in this user manual are shown wooden.



2.2 Assembling the cot



Be aware! Some parts of the cot are heavy. Always lift correctly.



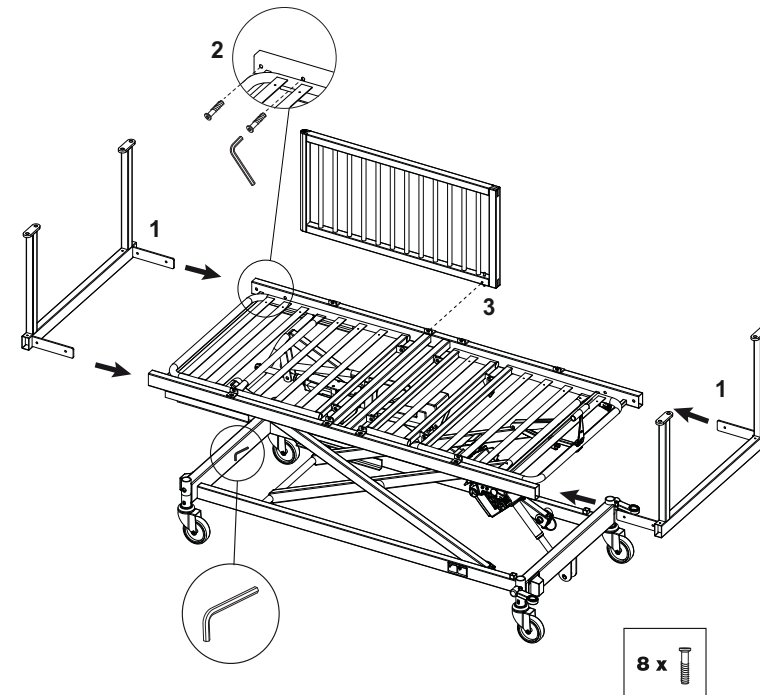
Always leave the cot in the lowest position. This is the safest position should a patient fall out of the cot.



Do not climb under the cot.

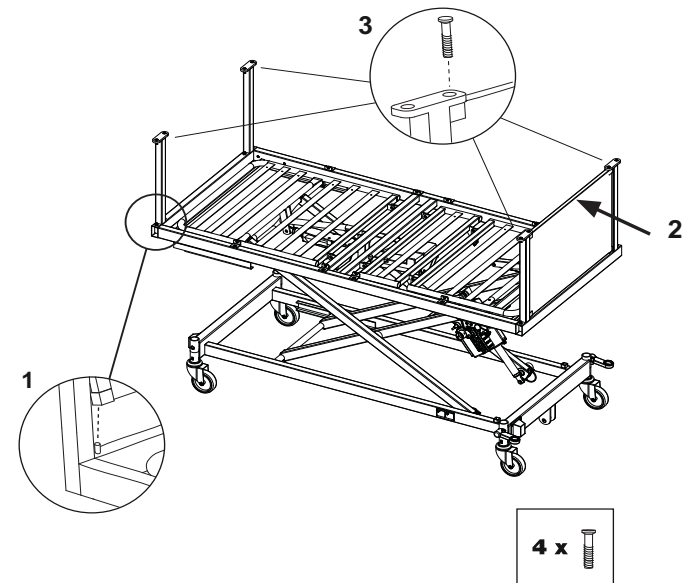
2.2.1 Fitting the bed end attachments

1. Place the two bed end attachments in the side frame tubes.
2. Tighten the 2 x screws in each corner using the hexagonal key, which is attached to the base frame.
3. The bed end attachments should be aligned.



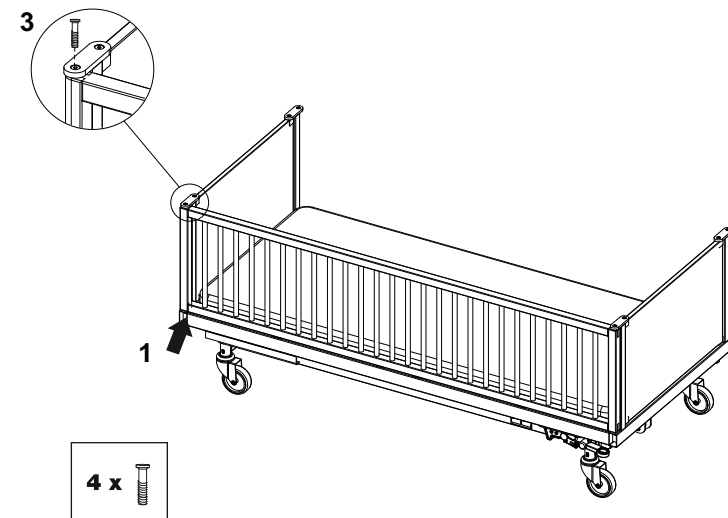
2.2.2 Mounting the bed end plates

1. Lift the bed end plate so that the guide pins in the top frame fit into the holes on the lower edge of the bed end plate.
2. Swing the upper edge of the bed end plate in towards the top of the bed end pieces so that the holes in the top of the cot end plate are flush with the holes in the bed end piece.
3. Secure the cot end plate using the 2 screws provided.
4. Repeat steps 1-3 for the opposite bed end plate.
5. Please ensure that the bed end plate is securely mounted and tightened.



2.2.3 Mounting the fixed bed sides

1. Place the fixed bed side so that the guide pins in the side frame tube can be guided into the brass bush on the bottom of the lattice.
2. Swing the upper edge of the fixed bed side in towards the bed end piece, so that the holes in the brass bush are flush with the holes and the guide pin fits.
3. Secure the fixed bed side using the two screws provided.
4. Please ensure that the fixed bed side is securely mounted and tightened.

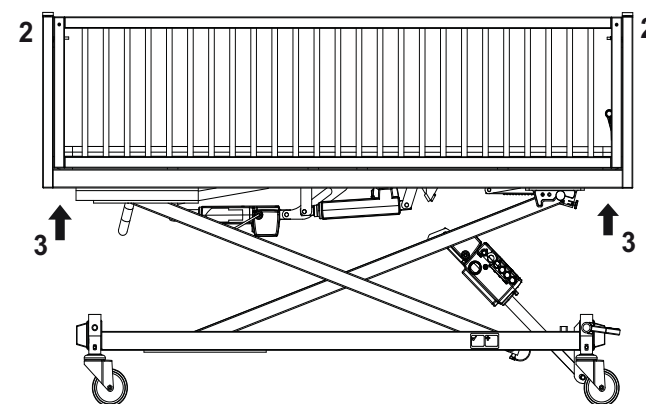
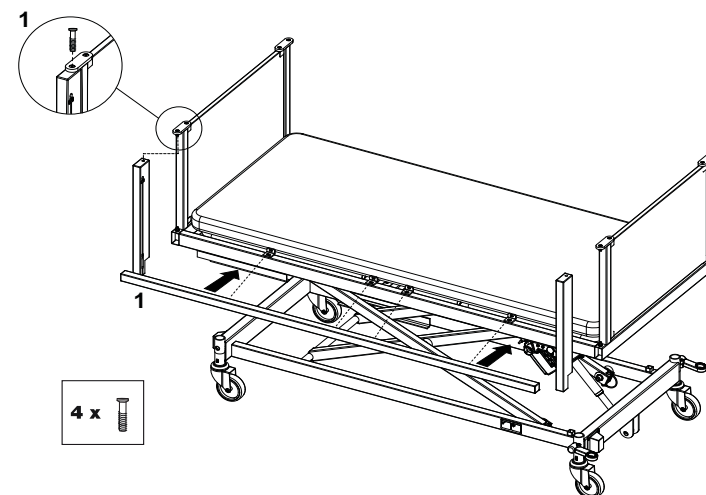


2.2.4 Mounting the downward-slideable side

1. Mount the wooden post to the corner posts and mount the wooden rail on the side frame tube with the included screws.

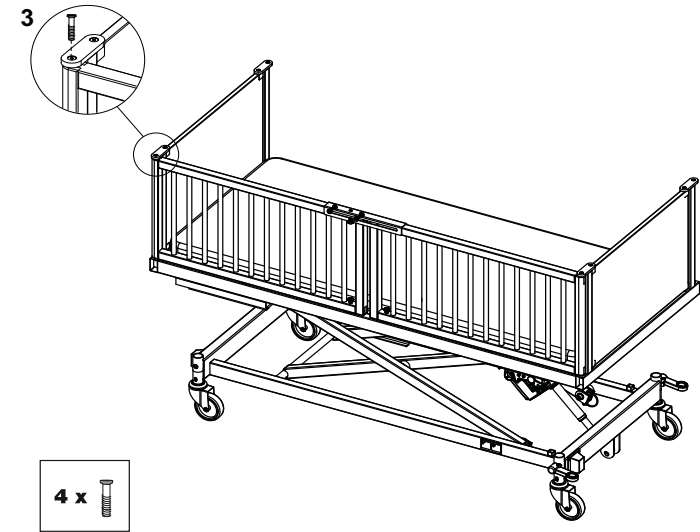
NOTE! The slots must face in towards each other.

2. Activate the locking pins on each side of the cot side.
3. Guide the plastic rail on the downward-slideable side up from below and into the slot on the wooden post.
4. Lift the downward-slideable side with both hands until the locking pin clicks into place in the hole on the wooden post.
5. Please ensure that both locking pins are secure by lifting the downward-slideable side lightly up and down



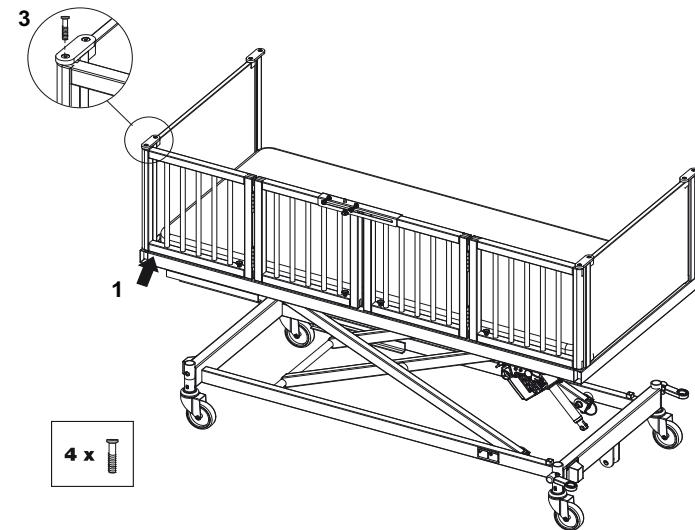
2.2.5 Mounting the side doors

1. Place the door so that the guide pin in the side tube is fitted into the brass bush on the bottom of the doors. To facilitate this, make sure that the bed end pieces are aligned.
2. Swing the upper edge of the door towards the bed end piece, so that the brass bush and the guide pin fits with the hole in the corner mounting on top of the corner post.
3. Secure the door using the screws provided
4. Repeat points 1-3 for the other side.
5. Please ensure that both doors are securely mounted and tightened and that the doors can be opened and closed without binding.



2.2.6 Mounting the folding side doors

1. Place the folding doors so that the guide pin in the top frame fit into the brass bush on the bottom of the doors. To facilitate this, make sure that the bed end pieces are aligned.
2. Swing the upper edge of the folding door in towards the bed end piece, so that the holes in the brass bush on the upper edge fit with the holes on top of the corner post.
3. Secure the side bars using the two screws provided.
4. Please ensure that the folding doors are securely mounted and tightened and that the doors can be opened and closed without binding.



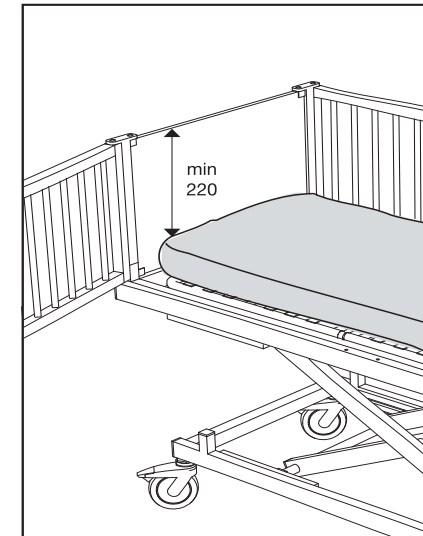
2.2.6 Mattresses

The following mattresses can be used

Cot sizes	Mattress sizes	Incontinence cover Part No.	Cotton cover Part No.
140x60	140x60	1514560	1547664
160x70	160x70	1514561	1547529
180x80	180x80	1514562	1547528



There must be a minimum 220 mm from the top of the mattress to the top of the bed end plate.



2.2.7 Other accessories

Fitting and use of accessories can be found in manuals supplied with the accessories

The following accessories are approved for use in **ScanBeta NG** cot.

- Lifting pole
- Padding
- Support handle

3. Operating the cot

3.1 Using the hand control.

The cot is equipped with a hand control that, depending on the model, can have different functions.

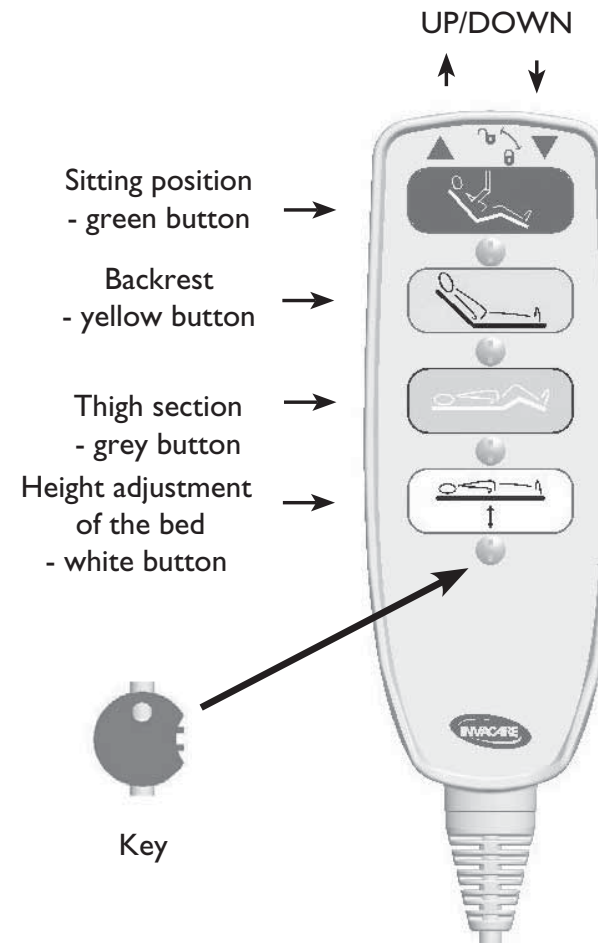
The hand control is equipped with a key that locks the bed's functions.



When the cot is in the right position, lock all functions to prevent unwanted movement of the cot.

Key for locking and unlocking the electrical functions

Insert the key below each button to respectively lock and unlock the hand control functions.



3.2 Operating the braking castors



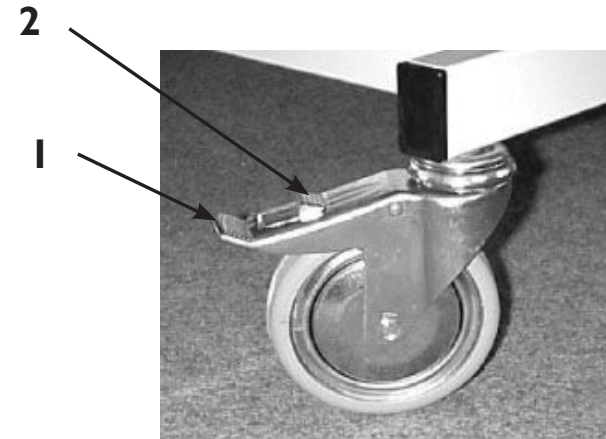
In some instances, the castors can mark certain types of floor, e.g. untreated wooden floors. If in doubt, *Invacare*® recommends that a suitable protective covering is laid between the castors and the floor.

3.2.1 Operating castors without a central braking system

When the cot is in the desired position, at least one castor at the head end and one castor in the foot end must be locked.

1. **Lock:** Step on the outer part of the pedal.
2. **Releasing:** Step on the release pedal.

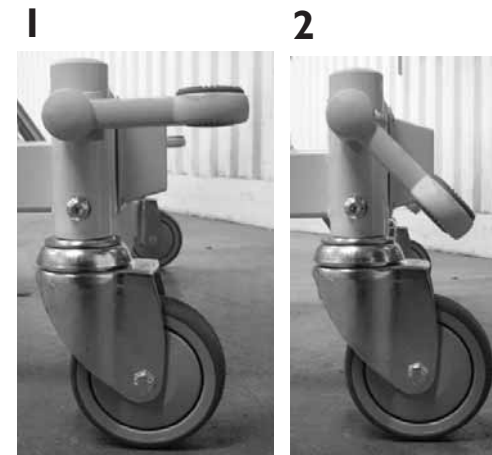
Do not attempt to release the brake with your fingers as they may get caught.



3.2.2 Operating castors with central braking system

When the cot is in the desired position, the brakes must be applied.

1. **Neutral:** When the pedal is in the horizontal position, the brakes are not activated and the cot can be moved.
2. **Brake:** Depress the pedal to activate the brake.



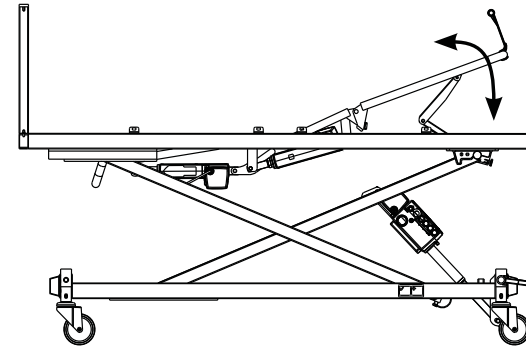
3.3 Operation of the manual adjustments

- Angle setting:

1. The angle of the leg section is adjusted by lifting the leg section frame to the desired position.
2. Lower the frame carefully until the rastofix mounting locks into place.

- Horizontal setting:

1. Lift the leg section until the rastofix mounting disengages.
2. Lower the leg section carefully to the horizontal position.



4. Operating of accessories

4.1 Operating of downward-slideable side.



There is a risk that the downward-slideable side may fall down, resulting in slight injury e.g. to the feet. Keep a firm grip on the downward-slideable side during operation.

- Down

1. Lift slightly and then release the locking pin on both sides.
2. Pull the downwards-slideable side carefully down with both hands.
3. When the downwards-slideable side is in the lowest position, the locking pins will click into place in the lowest holes in the wooden post.

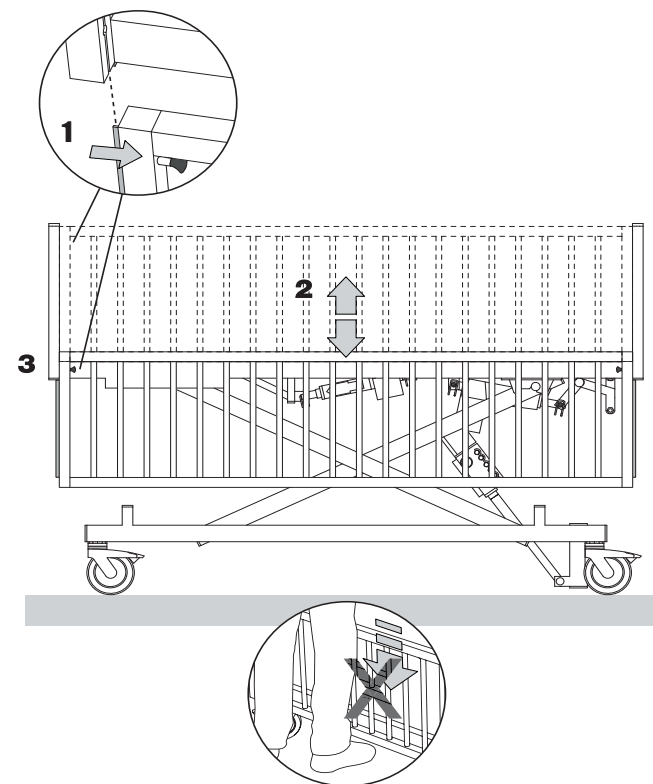
- Up

1. Release the locking pin on both sides.
2. Lift the downwards-slideable side carefully up with both hands.
3. When the downwards-slideable side is in the highest position, the locking pins will click into place in the uppermost holes in the wooden post.
4. Always check that both locking pins are correctly positioned in the holes in the wooden posts.

- Demounting

1. Open the downward-slideable side.
2. Release the locking pins with both sides.
3. Lower the downward-slideable side carefully out of the slots.
4. The downward-slideable side is removed.

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4.2 Operation of side doors.



Be careful not to get fingers caught when opening and closing the doors.



When the door is open, it must not have weight put on it as the cot may tip over. The maximum angle of opening is 90°.



- Open

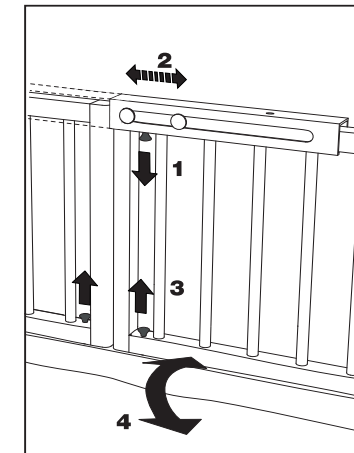
The child lock bracket is opened as follows:

1. Pull down on the locking pin at the top of the door.
2. Push the rail to one side.
3. Pull up the locking pins on the bottom of the doors.
(Folding doors have 2 locking pins on each door).
4. Open the doors.

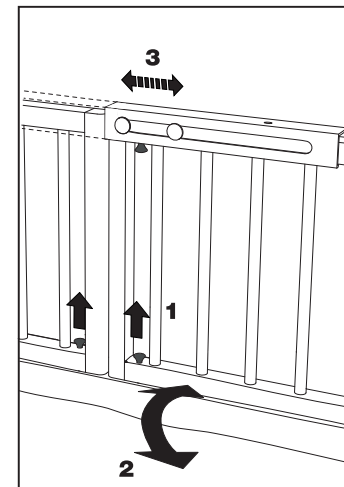
- Close

1. Pull the locking pin on both doors at the bottom of the door up.
2. Close the doors. Ensure that the locking pin fits the hole in the side rail.
3. Push the rail to one side until the locking pin is located.
4. Please ensure that the doors are safely and securely closed.

Open



Close



5. Assembling and disassembling the cot

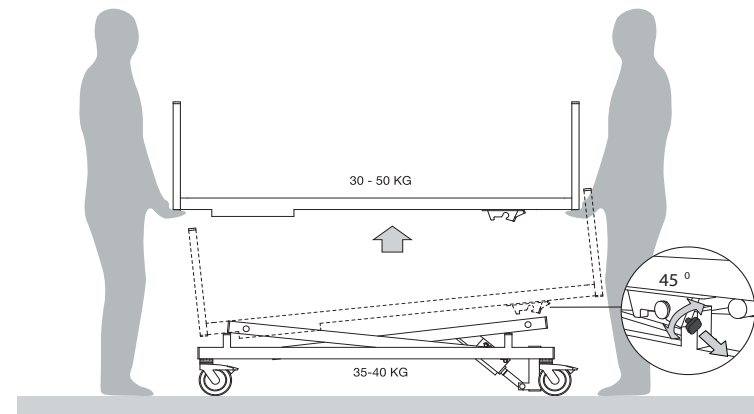


There must be at least two persons to assemble / disassemble the mattress support.

Be careful not to get fingers caught when assembling the cot.

5.1 Assembly of mattress support

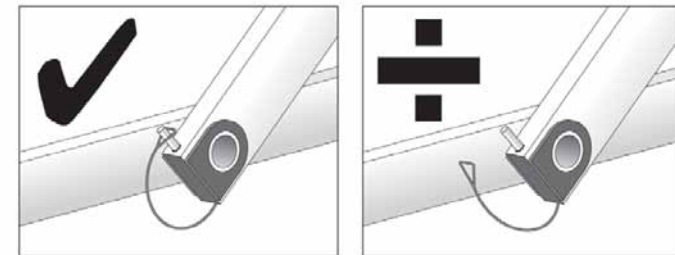
1. Lift the mattress support up over the base.
2. Carefully lower the mattress support so that the gliding shoes slide into the gliding rail on both sides of the base.
3. Carefully lower the foot end, so that the axle ends drop into the spring lock.
4. Lock the spring lock by pulling the red button out and turning it 45° anti-clockwise until it locks.
5. The motors may need to be mounted once again. (see section 5.3)
6. Please ensure that the cot is properly assembled and that both spring locks are in place and locked.



5.2 Mounting of the pipe pin between shear arm and base

1. The pipe pin must be mounted with the opening upwards and locked.
2. Make sure that the pipe pins are fully inserted through both holes of the tubular section, and that the spring clip is fully engaged onto the bed end of the pin prior to operating the lifting mechanism on the bed.
3. Check that all four plastic bushings are intact and located correctly between shear arm/base and shear arm/top frame.

Do not pull the clamp part of the pipe pin during dismantling – the clamp may be deformed, thus being unable to lock properly.



5.3 Removing the mattress support

1. Please ensure that the motors are removed, whether they are mounted directly on the mattress support, or between the mattress and the base. These must be removed before the mattress support can be removed. (See Chapter 5.3 for removal of motors).
2. Release the two spring locks by pulling the red button completely out and turning it 45° clockwise.
3. Lift the cot end closest to the snap spring locks.
4. Pull the mattress support backwards so that the gliding shoes can slide along the groove in the slide rails.
5. Lift the mattress support at both ends.



Make sure that the castors are locked.

5.4 Mounting and removal of motors



Pull the mains cable out of the wall socket before removing the motor.



The cables must be fitted so that they cannot get caught in the cot's moveable parts.



If the height adjustable motor is to be removed, there must be a minimum of two persons to hold the mattress support and one to remove the motor.

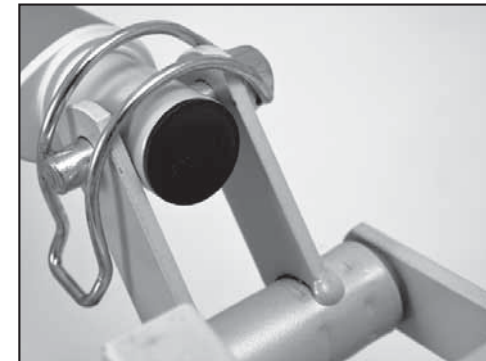
If motors with integrated control units have to be removed / mounted, all cable connections to the other motors, as well as to the hand control, must be removed / fitted.

All control units have a lock cam that must be loosened before the plugs can be pulled out of the control unit.

1. Release the lock cam by pressing the small locking pins out with a screwdriver.
2. When mounting is complete, the lock cam must be fitted again.
3. Press down on the lock cam so the locking pins engage.

- Mounting the motor

1. Place the motor in the fork mounts and pull the split pin through.
2. Lock the split pin.
3. Insert the plugs into the control unit. Take care that the plug is the right way round and inserted correctly into the control unit.
4. Replace the lock cam.
5. Make sure that all the working parts function correctly.



- Removing the motor

When removing the height adjustable motor, the mattress support must be held up by two persons.

1. Remove the lock cam and pull the cables out of the control unit.
2. Open the split pins at both ends of the motor and pull them out.
3. The height adjustable motor can now be removed and the mattress support lowered into the lowest position.

(On some models, the ends of the motor are secured by bolts and these must be removed).



6. Cleaning and maintenance

6.1 Cleaning



Before cleaning the cot, ensure that the mains cable is removed from the wall socket.

The **ScanBeta NG** cot cannot withstand cleaning in washing machines or by high pressure water jets.

- Clean with a soft wrung out cloth.
- Use only neutral liquid cleaning fluids without solvents.
- Cleaning of electrical parts must be done using a dry cloth.

6.2 Maintenance



Service and maintenance of the **ScanBeta NG** cot must only be carried out by personnel, who have undergone the necessary training and instruction.

- Before use

Ensure that all manual and electrical parts function correctly and are safe to use.

- After 3 months use

Ensure that all manual and electrical parts and tighten all bolts, screws, nuts, etc.

- Annually

Service must be carried out in accordance with the service and maintenance chart.
See Chapter 6.3, “Maintenance chart”.

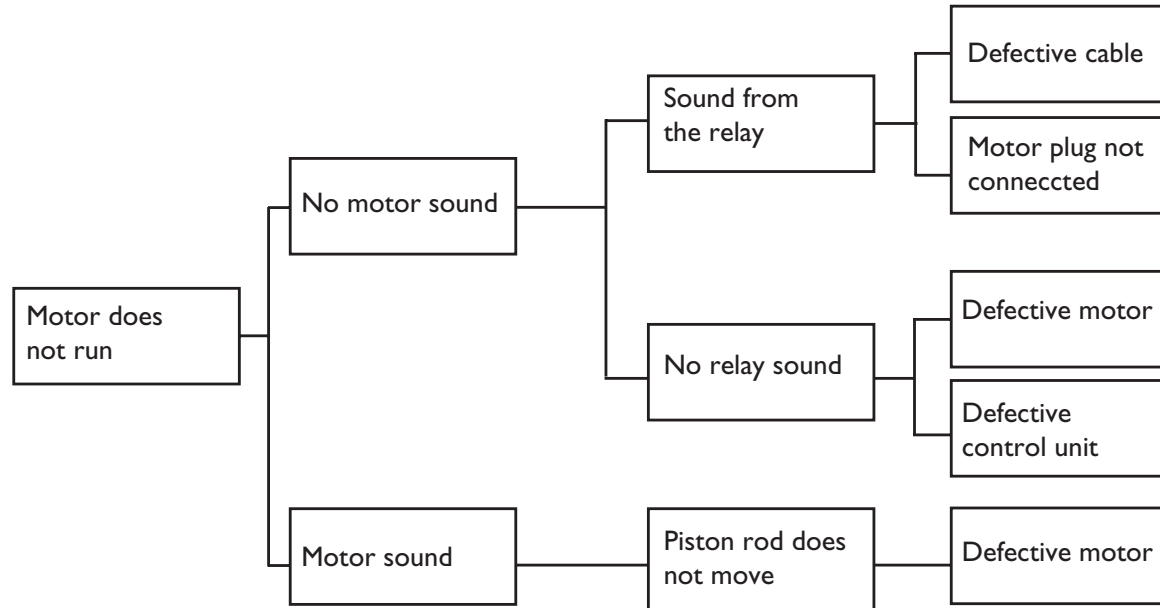
6.3 Maintenance chart

<p>Service and maintenance of the <i>ScanBeta NG</i> must <u>only</u> be carried out by personnel who have undergone the necessary instruction or training.</p> <p>Serial no. (placed on the cot base): _____</p>					
Date:	Initials:				
Circlips, split pins and plastic fixing ring checked.					
Screws, bolts and nuts tightened.					
Weldings checked.					
Castors brakes checked.					
Height adjustment-, backrest- and leg-motor checked.					
Cables correctly suspended and undamaged. Plug undamaged.					
Damaged coating repaired.					
Wooden parts and doors checked					
Accessories checked.					

A service contract can be taken out in the countries where *Invacare*[®] has its own sales company. *Invacare*[®] can also offer courses in the service and maintenance of the ***ScanBeta NG***.

7. Trouble-shooting the electrical system.

- Make sure that the main cable is connected.



8. Electrical data

Voltage supply:	230 V AC/50 Hz.
Max. current input:	1 A.
Intermittent (periodic use of motors):	10%, max. 6 minutes/hour.
Max. accumulator capacity:	1,2 Ah.
Protection class for motors:	IP 66.
Protection class for hand control:	IP 54.
Sound level:	55 dB (A).

Double insulated, class II, type B:



Alternating current: 

Direct current: 

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



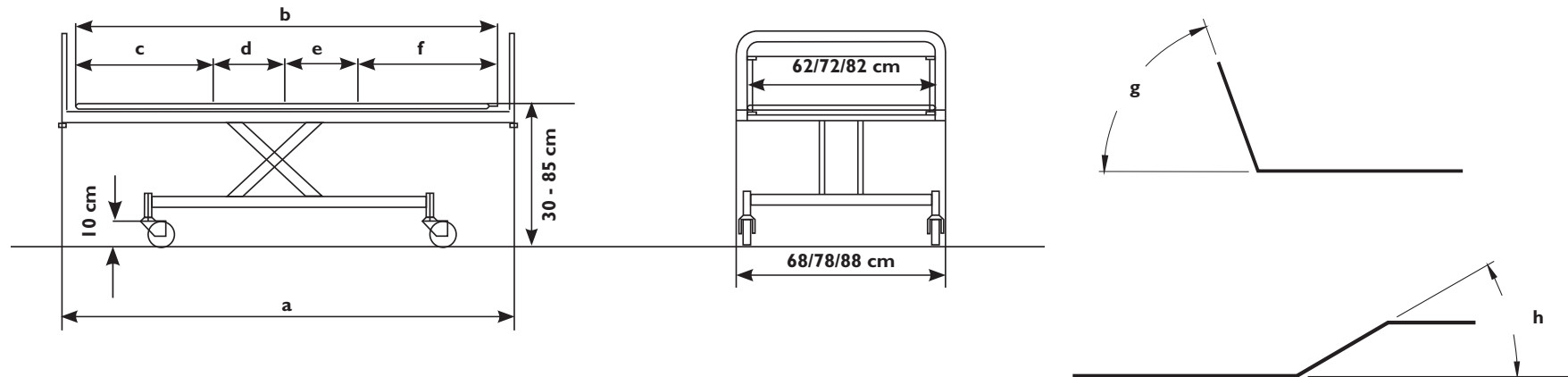
The control unit has no circuit breaker. Disconnection from the mains is therefore the only means of switching off the power supply.

9. Technical specifications

9.1 Dimensions

All measurements are given in mm. All measurements and angles are given without tolerances.

Invacare® reserves the right to change the stated measurements and angles without further notice.



L / W	60 cm	70 cm	80 cm
a (mm)	1480	1680	1880
b (mm)	1364	1564	1764
c (mm)	621,5	671,5	751,5
d (mm)	70	150	190
e (mm)	212	222	271,5
f (mm)	460,5	520,5	551
g	73°	73°	73°
h	36°	31°	27°

9.2 Weights

Weight chart		
Cot parts/size	70x160	80x180
Mattress support	31 kg	38 kg
Base with shear	47 kg	47 kg
Wooden bed end	13,5 kg	14,5 kg
Cot total	91,5 kg	99,5 kg

9.3 Transportation and storage conditions

- Temperature between -10° and 50° C
- Relative humidity between 10 and 80 % RH
- Air pressure between 700 and 1.100 hPa

10. Disposal

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

This product may contain substances that could be harmful to the environment unless disposed of in accordance (land fills) with current 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 local recycling facility at the end of its life.

