

panthera®

User Manual



Bambino



Micro

Panthera AB reserves the right to make technical changes.



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INTRODUCTION

We congratulate you on your choice of a wheelchair from Panthera AB and we hope you will be satisfied with this product.

All products from Panthera AB are designed and assembled in Spånga, outside of Stockholm. They are built to be market leading when it comes to quality, ease of manoeuvrability and low weight.

Intended use

Panthera Bambino and Micro are wheelchairs built for children who need an easily manoeuvred, everyday wheelchair that permits them to sit comfortably and ergonomically. The chassis has narrow outer dimensions and is the lightest currently available on the market. For optimal use of the Panthera wheelchair, you or a qualified professional must make the necessary adjustments so that the child sits comfortably, and so that the chair is easy to manoeuvre and is properly balanced. It is therefore important that you read the instructions for making adjustments to your Panthera.

We strongly recommend that you carefully read the entire user manual.

DESIGN

Panthera' Bambino and Micro wheelchairs are designed with a focus on good ergonomics when sitting or driving. The wheelchair is designed to have as low a weight as possible. The wheelchair's exterior is small and it is very light. It is available in two versions, If required, the wheelchair can also be equipped with a range of accessories, such as an anti-tip device, push handles, arm rests or side guards. For maximum weight of user, see Technical facts.

INDICATIONS FOR USE

Panthera mechanical wheelchairs are manually operated multifunctional wheelchairs designed for indoor / outdoor use and intended to provide mobility to persons that have the capability of operating a mechanical wheelchair.















CONTACT

If you have any questions or need help with the product, contact your local supplier (Assistance centre) first. To get in touch with the manufacturer, see the details below:

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SYMBOLS

The symbols used in the instructions and on the wheelchair and what they mean are listed below.

	Caution		Width of Wheelchair Seat
	Consult Instructions for Use		Article Number on the Chassis
	Manufacturer		Article Number on the Label and Revision
	Date of manufacture		Prescription use (USA)
	Serial Number		Medical device
	Catalog Number		CE marking
	Max. wheelchair user weight		For indoor use only

DESCRIPTION

Panthera **Bambino**

We at Panthera manufacture active chairs that have been continuously acknowledged over the years as the most free-rolling and easiest to manoeuvre chairs on the market. Panthera Bambino is no exception. It is an everyday chair for children with excellent rolling properties and it has the same superb qualities as its larger family members. Thanks to our broad accessory line and the many adjustment options, a very large group of different children can use Bambino. It is easy to manoeuvre, easy to adjust and easy to lift. Panthera Bambino is simply a truly active chair for children from about 4 to 12 years of age.

Panthera **Micro**

Panthera Micro is the chair for the youngest children. As we all know, being able to move about independently is very important, and not the least for a child. Panthera Micro is therefore built to be as easy to manoeuvre as possible. Chrome molybdenum and titan form the frame; the front wheel for marathon chairs is the drive wheel. Just as with many tennis chairs, it has just one front wheel for easier rotation. Panthera Micro is made for children between 1 and 5 years of age and intended for indoor use.

SAFETY INSTRUCTIONS

Make sure you have received the chair you ordered:

- Check the chair width.
- Check the backrest height.
- Check that you have received the accessories you ordered.

Conduct a technical inspection of the chair. Check that:

- The drive wheels move smoothly in and out of their nut pieces.
- The drive wheels are properly secured after assembly.
- The button for the quick release lock in the hub springs out entirely.
- All wheels are in contact with the floor.
- The fork for the caster is easy to turn.
- The backrest is easy to fold down. Only **Bambino**.

Balance and tip sensitivity

The placement of the drive wheels, the backrest angle and the backrest upholstery's adjustment have the greatest effect on the wheelchair's sensitivity to tipping. After adjustment of the chair, check that the chair's balance feels right. Tip sensitivity is also influenced by whether a bag is hanging on the backrest, the child is leaning/reaching back, the tyres are worn, the tyres are poorly inflated or whether an unanticipated change to the surface is encountered.

SAFETY INSTRUCTIONS

WARNING:

A Panthera chair is designed to be as easily manoeuvred as possible. Because the chair is so easily manoeuvred, it reacts quickly and easily to the user's actions. If the user performs the wrong action it can **tip backwards** for example, if no **anti-tip devices** are fitted. It is **fully possible to tip the chair**. The **anti-tip devices** are safety components designed to prevent the chair from tipping backwards and are not intended for constant operation. If the user manoeuvres the chair in such a manner that the anti-tip devices are frequently used, they must be checked daily. If the wheelchair is equipped with **electrically powered drive wheels**, the load on the anti-tip devices can significantly increase and they should then be checked daily.

It is important that the child has been able to properly try out the chair and takes the time to practice his or her wheelchair technique. If you have any questions concerning wheelchair technique, contact your prescriber/therapist. Please feel free to contact us at Panthera AB as well.

Brakes **Bambino**

If using our high brakes, care must be taken to not catch the fingers when operating with the drive wheels. If the high brakes are used and the child will be moving laterally to or from the chair, it is important that he or she clears the braking mechanism so as to avoid fastening in it. Keep in mind that the brakes are less effective when the tyres are poorly inflated or worn. Because tyre sizes can vary, always check the brakes after changing the tyre type. The brakes are designed as parking brakes and not as service brakes. NB: For the brakes to function, the tyres must be correctly inflated. See the technical information.

Seat adjustment

Incorrect seat adjustment can cause pressure sores. If uncertain, immediately contact your prescriber. Ensure that the side guards do not press too hard against the thighs as this can cause pressure sores. If the side guards are applying too much pressure, the chair is either too narrow or the side guards require adjustment. The seat is intended for use with a cushion.

Other children can hurt themselves on the wheels.

Because spoke guards make the chair more difficult to manoeuvre, they are not standard. But if the child is with other children, there is a risk of fingers or hands being caught between the spokes, and spoke guards can thus be necessary.

Manoeuvring **Bambino**

If the distance between the foot plate's lowest part and the underlying surface is less than 40 mm, the foot plate can catch on surface projections and cause falls forwards. If the child is being pushed or moving independently down over a kerb with the anti-tip devices extended, they can catch on the kerb edge and cause a fall forwards. If you are uncertain, retract the anti-tip devices and ask for help.

SAFETY INSTRUCTIONS

Micro

Intended for indoor use

The reason for the chair only being suitable for indoor use is that it has just one front wheel (to make it easier to turn). This entails a risk for the chair tipping forwards at an angle if it is moving rapidly and encounters an obstacle or dip. This can also happen indoors but is much less common.

Most small children need a belt to prevent them from losing balance and falling out of the chair. A basic belt is supplied with the chair. If this is not sufficient, the child must not use the chair until the prescriber has obtained one that provides satisfactory protection.

Bambino

Moving/lifting (Figure 1)

Due to the chair's low weight, it can shift laterally when the child moves to the chair from the side and the brakes are applied. If you are uncertain, have the child practice this move with your prescriber. If the wheelchair is to be lifted along with the child, always grip the wheelchair's frame – not the backrest, push bar, leg support, wheels or other moving parts. See Figure 1



Fig. 1

OVERVIEW - Bambino (Figure 2)

1. Backrest
2. Drive wheel
3. Seat/cushion
4. Chassis
5. Foot plate
6. Caster
7. Front fork
8. Push rim
9. Anti-tip device
10. Rear axle
11. Quick release hub
12. Air valve
13. Backrest release
14. Brakes



OVERVIEW - Micro (Figure 3)

1. Backrest
2. Drive wheel - tyre
3. Seat/cushion
4. Chassis
5. Foot plate
6. Front fork
7. Caster
8. Rear axle
9. Anti-tip device
10. Quick release hub
11. Air valve



Figure 3

ADJUSTMENTS

When adjusting the seat to the child's posture and balancing the chair (necessary for attaining the desired manoeuvring properties), it is important that you do this in the correct order. You must adjust the seat before adjusting the balance. This is because the chair's balance shifts when you adjust the seat.

Keep in mind that the little extra time spent on correctly adjusting the chair will be well worth the effort. Try different settings over the course of a day to ensure that you have correctly adjusted the seat and balanced the chair. Make the adjustments in the following order:

- 1) Seat upholstery
- 2) Foot plate
- 3) Backrest and upholstery
- 4) Wheelchair balancing
- 5) Positioning of brakes **Bambino**
- 6) Anti-tip device **Bambino**

1) Seat upholstery depth (Figures 5)

By moving the seat extension forwards and backwards, you can adjust the seat depth. Loosen the front part of the seat by pulling backwards (the seat is secured with a Velcro fastener). Adjust the seat depth and secure with the Velcro fastener.



Figure 4



Figure 5

ADJUSTMENTS

1) Seat upholstery tension **Micro Bambino** (Figures 6 and 7)

The tension of the rear half of the seat upholstery can be adjusted by tightening or releasing the Velcro strap at the bottom of the seat; Figures 5 and 6. This enables you to vary the seat height by about 2 cm, upwards or downwards.

2) Foot plate **Micro** (Figure 8)

Vertically: You can adjust the foot plate upwards or downwards by changing holes on the bracket. Remove the screws that secure the foot plate. You can now move the foot plate upwards or downwards to one of the vertical positions. The foot plate must be at a height that provides support for the undersides of the thighs against the seat at the same time as the feet are supported by the foot plate.

Horizontally: The foot plate can be turned so that the plate is backwards or forwards. Remove the two screws that secure the foot plate. Turn the plate and retighten the screws.

Foot plate **Bambino** (Figure 9)

Vertically: Loosen the screws (1) – see Figure 8 – and adjust the plate upwards or downwards. Tighten the screws again. If the feet need to be further down, you can turn the bracket for the foot plate so that it is straight down. **Horizontally:** Loosen the screws (2) and fully open the hinge clamp, and then carefully lift the foot plate forwards or backwards.

Angle: Before you tighten the screws (2), set the desired angle. Fully tighten the screws.



Figure 6



Figure 7



Figure 8



Figure 9

ADJUSTMENTS

3) Backrest **Bambino** (Figures 10, 11 and 12)

Backrest height (Figure 10)

First loosen the bolts on both sides; see Figure 9. Next release the backrest upholstery from the tensioning straps. You can now adjust the backrest to a suitable height by moving the backrest columns upwards or downwards. Once you have found a suitable height, re-tighten the bolts. Remove the unattached strap if the backrest is adjusted to a low position.

Backrest angle (Figures 11 and 12)

- 1) Release the backrest locking function by pulling the cable (4) – see Figure 10 – and folding the backrest forwards.
- 2) Loosen the lock nuts (2) with a 13-mm spanner, and screw in the adjustment screws (3) using a 5-mm Allen key.
- 3) Loosen the bolts (5) and (6) – see Figure 11 – with a 10-mm spanner.
- 4) Fold back the backrest so that the locking pin (7) springs out.
- 5) Adjust the desired angle by moving the entire backrest forwards or backwards.
- 6) Tighten the bolts (5) and (6) with a 10-mm spanner.
- 7) Use the adjustment screws (3) to eliminate play using a 5-mm Allen key so that both of the adjustment screws are even with the frame. Tighten the lock nuts (2) with a 13-mm spanner.
- 8) Check that the locking pins spring out in their locking slots when the backrest is folded back.



Figure 10



Figure 11



Figure 12

ADJUSTMENTS

3) Backrest **Bambino** (Figures 13)

Backrest upholstery tension: This is adjusted by tightening or loosening the straps with Velcro fasteners at the rear of the backrest. The backrest upholstery also has a tab that fastens under the seat upholstery with a Velcro strap. You can move this forwards or backwards to attain suitable tension for the backrest upholstery's lower section (called the seat bucket).

By changing these adjustments, you can form the backrest upholstery to the shape of the child's back so that there is suitable support for the lower back. Begin by releasing the strap and then seat the child as far back as possible in the chair. Tension the strap so that good support is attained. If it seems that the child is not sufficiently far back in the chair, this can be because the backrest upholstery's lower tab is attached too far forward under the cushion upholstery. Release it and move it backwards.

Backrest **Micro** (Figure 14)

Backrest upholstery tension

The backrest upholstery can be tensioned or released by tensioning or releasing the Velcro straps at the rear of the backrest; see Figure 14. The backrest upholstery has a tab that fastens under the seat upholstery with a Velcro strap. You can move this forwards or backwards to attain suitable tension on the backrest upholstery's lower section (called the seat bucket). By making these adjustments, you can form the backrest upholstery to the shape of the child's back so that there is suitable support for the lower back. Begin by releasing the strap and then seat the child as far back as possible in the chair. Tension the strap so that good support is attained. If it seems that the child is not sufficiently far back in the chair, this can be because the backrest upholstery's lower tab is attached too far forward under the cushion upholstery. Release it and move it backwards.



Figure 13



Figure 14

ADJUSTMENTS

4) Wheelchair balancing

Bambino (Figure 15)

Adjust the balance of the wheelchair by moving the drive wheels (rear axle) forwards or backwards. The further forward you position the drive wheels, the more the chair will be balanced to the rear. This causes the chair to be light at the front and there will be more weight over the drive wheels. The chair will be easier to manoeuvre and also easier to lift by the back wheels when passing over curbs, thresholds, etc. However, the chair must not be overly balanced to the rear because there is then the risk of it tipping backwards.

It is important that you take the time to properly test until you have found a balance that suits the child's body and manoeuvring technique so that the chair is as easy to manoeuvre as possible without excessive risk for tipping. After making adjustments to the chair balance, someone should always be behind the chair when testing. If you are still uncertain of whether the chair is correctly balanced after thorough testing, you should use our anti-tip device. The anti-tip device makes it impossible to tip backwards and is easy to remove when it is no longer needed.

Move the drive wheels as shown; see Figure 15:

1. First remove the drive wheels.
2. Loosen the nuts (1) with a 15-mm spanner on both sides of the chair.
3. The rear axle can now be moved forwards and backwards along the longitudinal frame tube. It is important that the wheel brackets are the same distance forwards on both sides. This is easiest to check by measuring the distance as shown in Figure 14 with a measuring tape or ruler, and checking that the distance is the same on both sides.
4. Now tighten the nuts (1) so that the rear axle is securely attached.



Figure 15

ADJUSTMENTS

4) Wheelchair balancing

Micro (Figure 16)

Adjust the balance of the wheelchair by moving the drive wheels (rear axle) forwards or backwards; see Figure 16. The further forward you position the drive wheels, the more the chair will be balanced to the rear. This causes the chair to be light to the front and there will be more weight over the drive wheels. The chair will be easier to manoeuvre and also be easier to lift by the back wheels when passing over thresholds, etc. The chair must not however, be excessively balanced to the rear as this can create a feeling of insecurity. It is therefore important that you take the time to properly test until you have found a balance that suits the child's body and manoeuvring technique, so that it is as easy to manoeuvre as possible.

To move the drive wheels:

1. First remove the drive wheels.
2. Loosen the bolts at the bottom of the rear axle bracket on both sides of the chair; see Figure 16.
3. The wheel bracket can now be moved forwards and backwards along the longitudinal frame tube. It is important that the wheel brackets are the same distance forwards on both sides. This is easiest to check by measuring the distance between the horizontal frame tube's front edge and the wheel bracket's rear edge with a measuring tape or ruler, and checking that the distance is the same on both sides; see Figure 16.
4. Now tighten the bolts so that the rear axle is securely attached.

Keep in mind that the little extra time spent on correctly adjusting the chair will be well worth the effort. Try different settings over the course of a day to ensure that you have correctly adjusted the seat and balanced the chair. After about one month, make a new check to see that everything is functioning as it should.



Figure 16

ADJUSTMENTS

4) Positioning of the brakes **Bambino** (Figure 17)

The brakes must be adjusted so that in the locked position, they press about 3-4 mm into the tyres. Adjust by loosening the brake clamping bolt with a 10-mm spanner and a 4-mm Allen key, after which you can move the brakes forwards or backwards along the frame's seat tubes. Try different positions until the brakes are correctly adjusted and then retighten the clamping bolt. NB: The braking force will change if the air pressure is too low, the tyres worn or when changing to another tyre type. You should therefore regularly check the position of the brakes.

4) Anti-tip device **Bambino** (Figure 18)

With the anti-tip device lowered, adjust the ground clearance by placing the wheel tube in one of the four positions shown in Figure 18. The anti-tip device can be folded away under the frame when not needed. Do this by pressing down the anti-tip device and then turning it under the seat. When you later fold out the anti-tip device, make sure that it is secured in the locking slots. When the child is learning back wheel manoeuvring, the anti-tip device should be set at a height that permits the chair to be balanced.



Figure 17



Figure 18

TRANSPORTATION

Securing the wheelchair in a vehicle **Bambino** (Figure 19 and 20)

We would like to make it quite clear that the best alternative for transportation in a vehicle is to transfer from the wheelchair into a regular passenger seat with a seatbelt. If this is not possible, you may have to remain seated in your crashtested wheelchair.

The wheelchair must always be turned to the vehicle's direction of travel when the user is sitting in the chair while underway. The wheelchair must always be secured in the vehicle with a 4-point safety belt system. The belts are tensioned at the front edge around the tubes at the bearing sleeves for the link wheels. See Figure 19. At the rear, the belts are secured around the rear axle. **NB:** Do not use metal hooks directly against the rear axle. See Figure 20. Pull the wheelchair backwards and pull hard on the rear belts so that the wheelchair is stationary and moves neither forwards nor backwards. Once the chair is properly secured, set the brakes if the chair is equipped with brakes. We also recommend folding out the anti-tip device if the chair is so equipped. Make sure that all belts and buckles are properly tensioned in the rail on the floor and that all are pulled tight.



Figure 19



Figure 20

Securing the user **Bambino** (Figures 21, 22 and 23)

If the child will remain in the wheelchair while travelling, we recommend that the wheelchair's backrest be even with or above the child's shoulder blades. The child must be restrained in the vehicle with a 3-point safety belt. This is to minimise the risk of injury to the head and/or rib cage in the event of a collision or hard braking. **The vehicle's safety belt must be against the body and may not be held away from the body by any part of the wheelchair.** See Figures 21 and 22. Any unattached wheelchair parts must be removed to reduce the risk of injury to the child or other passengers. Neck cushion or other headrest must be used. See figure 22 and 23.



Figure 21



Figure 22



Figure 23

CRASH TESTING

Crash-tested and approved **Bambino**

Panthera's Bambino wheelchair has been approved for use during transport in vehicles operated by services for transport of the disabled as follows. We provide instructions for how the chair is to be secured in an approved manner and which materials have been used during testing. The following wheelchair models and materials were used upon approval according to the tests below.

This documentation is based on the results obtained when Panthera's wheelchairs were crash-tested according to ISO-7176-19:2008 and ISO-10542:2000. The crash test was conducted by: SP Technical Research Institute of Sweden Test dates: 13 Nov. 2015.

Panthera Bambino:

Attachment equipment: HandiSecure HS01-A

User seat belt: HandiSecure HS01-A 3-point seat belt, high deflector

Test dummy: Hybrid III dummy (weight 59 kg)

During this crash test we collaborated with Unwin, which manufactures attachment equipment for wheelchairs. For more information about the belts, please contact Unwin.

Wheelchair configuration during crash testing

The wheel chair that we have crash-tested had the following configuration during testing:

Panthera Bambino:

Chassis Bambino complete, width 30

Backrest Bambino complete, width 30

Foot plate Bambino, width 30

Drive wheel std. 22-inch with titan push rim

High brakes, moved forwards

Push bar complete, width 30

Neck cushion Bambino, width 30

Anti-tip device

Side guard Bambino 22-inch

Cushion Bambino, width 30, 2.5 cm

Deviations from the results may occur if the chairs have a different configuration. The height of the chair's backrest and / or the absence of head-rest significantly affects the results.

MAINTENANCE

Your Panthera is constructed to be virtually maintenance-free. A few parts however, require regular inspection. (Obviously you must clean and check the chair more often if you use it in more extreme environments, such as in sand and salt water.)

Once monthly you must:

- Wipe the chair's chassis with automotive or dishwashing detergent and a damp cloth. In the event of heavy soiling, a degreasing agent may be used. Lubricate all moving parts with 5-56, universal oil after cleaning.
- Clean around the front wheel bracket in the fork (between the wheel and fork). It is here that hair, dust, etc. often collect, which can damage the bearings. Loosen the nut with a 10-mm spanner and hold the bolt in place with another 10-mm spanner. Tighten the bolt and remove the wheel. Clean the spacers fitted between the wheel and fork, and wipe the outside of the wheel bearings with a rag. Squirt a drop of oil into each bearing. Now reassemble the parts.
- Lubricate the axle for the drive wheels. Remove the wheels and spread a few drops of oil on the axle. If the wheelchair is used in rain, sand, salt and slush or the wheels seldom removed, you should do this more often.
- Inflate the tyres by removing the cap from the valve and inflating using a suitable valve adapter. The tyres should be inflated to a pressure of 8 bar (kg).
- Check all screws, bolts and nuts and tighten as necessary.
- Check the chair for damage. If damage has occurred, immediately contact us at Panthera AB.

Twice yearly you must:

- Lubricate moving brake parts with a few drops of oil. **Bambino**
- Lubricate the bushing at the backrest joint. Loosen the nut with a 10-mm spanner and hold the bolt in place with another 10-mm spanner. Lubricate the bushing with a few drops of oil. **Bambino**
- Wash the seat upholstery, backrest upholstery and cushion cover in a washing machine at 40 degrees as necessary.

GUARANTEE AND LIFESPAN

Lifespan: The lifespan of a Panthera product depends on how much wear and tear it is exposed to and how thorough you are with maintenance.

When reaching the end of its lifespan, the wheelchair must be handed in to the Assistance centre or Panthera AB to be recycled.

Guarantee

Panthera AB offers a five-year factory guarantee on the wheelchair chassis. For other parts there is a guarantee of 12 months (with the exception of wear parts).

- The guarantee covers product faults attributable to defects relating to design, material or manufacturing.
- The guarantee does NOT cover faults attributable to normal wear and tear, negligent maintenance, handling errors, incorrect storage, incorrect assembly on the part of the purchaser, adjustments and use of products from other supplies without obtaining Panthera AB's written consent or deterioration attributable to repairs carried out on the purchaser's own initiative.

Reuse

The Panthera Bambino and Micro are suitable for reuse. Prior to being reused, the wheelchair must be cleaned, disinfected and dispatched to an authorised reseller for inspection.

CONFORMITY (Fig. 47 and 48)

Details of the wheelchair's conformity with standards can be found on the underside of the chassis at the front.

See page 3 for an explanation of the symbols.



Fig. 47



Fig. 48

TECHNICAL FACTS

Bambino				
Seat width (cm)	24	27	30	33
Overall dimensions				
Width	45	48	51	51
Length	65 - 71.5	65 - 71.5	65 - 71.5	65 - 71.5
Height	57.5-65	57.5-65	57.5-65	57.5-65
Seat				
Angle	4°	4°	4°	4°
Height, rear	39	39	39	39
Height, front	41	41	41	41
Depth	18-25	23-30	23-30	23-30
Backrest				
Backrest angle, forwards-backwards	7.7°-12°	7.7°-12°	7.7°-12°	7.7°-12°
Backrest height	17-25 or 27-35			
Transport dimensions				
Width	29.5	32.5	35.5	38.5
Length	60	60	60	60
Height	32	32	32	32
Weight				
Total (g) *	8120	8348	8576	8804
Transport	4894	5140	5368	5596
User weight (kg)	60	60	60	60
Air pressure in tyres (bar)	8	8	8	8
*Weights are with brakes fitted.				

TECHNICAL FACTS

Micro				
Seat width (cm)	24	27	24 long	27 long
Overall dimensions				
Width	46	49	46	49
Length	62	62	72.5	72.5
Height	51.5	51.5	54	54
Seat				
Angle	0°	0°	0°	0°
Height, rear	31	31	31	31
Height, front	31	31	31	31
Depth	15-20	15-20	20-25	20-25
Backrest				
Backrest angle, forwards-backwards	0°	0°	0°	0°
Backrest height	22	22	22	22
Transport dimensions				
Width	31	34	31	34
Length	62	62	72.5	72.5
Height	50	50	52	52
Weight				
Total (g) *	3518	3564	3782	3828
Transport	2342	2388	2474	2520
User weight (kg)	30	30	30	30
Air pressure in tyres (bar)	8	8	8	8
*Weights are with brakes fitted.				

NOTES

Lined writing area with alternating shaded and unshaded horizontal bands for notes.

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