

# panthera®

User manual  
Wheelchair model



Panthera AB reserves the right to make technical changes if required



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# Panthera X

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## INTRODUCTION

You are now the owner of a **Panthera X** – *the world's lightest wheelchair*. Invented, designed and manufactured in Sweden, the Panthera X boasts an advanced composite carbon fiber structure, giving it the rigidity, strength and super-low weight normally associated with aerospace and Formula 1 equipment. And now, wheelchairs. Have fun!

The Panthera team

**Please ensure you carefully read the instructions.**

To view the images and text more clearly, you can also read the instructions digitally at [www.panthera.se](http://www.panthera.se)

## DESIGNED FOR PURPOSE

Panthera X wheelchairs are built for individuals who need a manual dynamic wheelchair for everyday use, both inside and outside the home. These wheelchairs are made to be used by people with physical disabilities, and are not limited to people with a specific diagnosis. Each person's individual function capacity and limitations indicates whether a manual dynamic wheelchair is suitable as a mobility aid. Wheelchair model recommendations should be given by trained healthcare professionals, and the appropriate product should then be tested and adjusted by an expert for the optimal sitting and driving characteristics. The wheelchair's design and settings are tested for each individual, and the product is not usually suitable for young children.

## DESIGN

Panthera's X wheelchairs are designed with a focus on good ergonomics when sitting or driving. The wheelchair is designed so that it can be easily lifted into the car by the user. In addition, the chassis is formed to provide a balanced, effortless grip when lifting the chair into the car. The wheelchair's exterior is small and it is very light. If required, the wheelchair can also be equipped with a range of accessories, such as side guards. For maximum weight of user, see Technical facts.

## 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:

Panthera AB +46 (0)8-761 50 40  
Gunnébogatan 26 [www.panthera.se](http://www.panthera.se)  
SE-163 53 Spånga [panthera@panthera.se](mailto:panthera@panthera.se)

## SYMBOLS

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



**WARNING!** High-risk situation that could lead to serious injury.



Read the instructions for more information



Manufacturer's address



Date of manufacture



Wheelchair's serial number



Wheelchair's model name



Max. wheelchair user weight



Wheelchair's seat width



Article number on the chassis



Article number on the label and revision



Not to be used as a passenger seat in a vehicle at transport

## DESCRIPTION (Fig. 1, 2 and 3)

**The Panthera X** is made from Advanced Carbon Fibre Reinforced Plastics, CFRP, which can be moulded into just about any shape. It may sound simple, but is in fact a small technological wonder. Carbon fibre is a fantastic material.

But it's a material which works best with smooth, curved shapes that better distribute the force of high loads.

Finding the perfect cross-section between smooth, strong shapes and ergonomic, practical design was an engineering challenge requiring years of development, experimentation and practical testing.

The result is the strongest and lightest wheelchair ever built.

The low weight, combined with the stable, fixed frame and easy rolling castors, make the wheelchair extremely easy to manoeuvre.

The chassis' seat angle and adjustable seat upholstery combined with a backrest that is adjustable in angle and upholstery provides the user with extremely good seating support and comfort.

The fabric used in the backrest upholstery has been carefully selected to provide ergonomic and comfortable seating posture.

The wheelchair's balance point can be adjusted to enable you to find a setting that makes you feel safe and secure.



Fig. 1



Fig. 2

## OVERVIEW (Fig. 3)



1. Backrest upholstery
2. Backrest frame
3. Rear wheel / Tire
4. Brake
5. Chassis
6. Calfstrap
7. Footrest
8. Castor wheel
9. Quick release hub, QR
10. Push rim
11. Backrest attachment
12. Seat / Cushion



# SAFETY REGULATIONS

## Current information

Up-to-date information on safety and product updates can be found at Panthera's website, [www.panthera.se](http://www.panthera.se)

Verify that your wheelchair corresponds with your order:

- Measure the seat width.
- Measure the height of the backrest.
- Ensure you have received the accessories you ordered.

Conduct a technical inspection of your wheelchair, ensuring that:

- the rear wheel's quick release can easily be shifted in and out of its casings.
- the rear wheel is firmly attached following installation.
- the quick release button springs out fully while in locked position.
- all four wheels are in contact with the floor.
- the castor fork can be rotated with ease.
- the backrest folds down easily.



### Balance and tipping capacity

The angle of the backrest, the adjustment of the backrest upholstery and the position of the rear wheel are the most significant factors affecting the wheelchair's balance and tendency to tip. After adapting your wheelchair, check that you **feel confident about the balance of the wheelchair**.

The tipping capacity of the wheelchair may also be affected if a bag is hung on the backrest, if you lean or stretch backwards, if the tyres are worn or contain insufficient air or if there is an unexpected change to the surface you are driving on



### Anti-tip device

As the drivers of the Panthera X are very advanced users and benefits of as low weight as possible, Panthera do not deliver anti-tip device in the standard configuration as this would increase the weight of the wheelchair and this user group has good control over a wheelchair with a lot of weight over the rear wheels and can handle a very "tippy" wheelchair. The demand for not having anti-tip device according to the standard is 10 degrees angle and the Panthera X has a tipping angle at 5 degrees.

The wheelchair was therefore tested with anti-tip to fulfill the demand. Panthera X is designed for the advanced user that is aware of that the wheelchair is very easy to tip backwards and adapt their driving and use of the wheelchair to this.

People that would need anti-tip device is not recommended to use this wheelchair when this could lead to serious health risk.

Anti-tip device are available as an option but is to be used primary as a complement if the conditions for using the wheelchair changes in the future.

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# SAFETY REGULATIONS

## Wheelchair skills

It is important to test your **wheelchair comprehensively and take the time required to hone your wheelchair skills**. If you have any questions on wheelchair technique, contact the person who prescribed the wheelchair or your therapist. You are also welcome to get in touch with the team at Panthera AB.

## Brakes

Your wheelchair is equipped either with brakes for each rear wheel (**high brakes**) or a **one-hand brake**. The one-hand brake can be applied by gripping with one hand rather than two. The brakes are designed as parking brakes and not for braking while in motion.

**Please note.** In order for the brakes to function correctly, the tyres must contain the correct air pressure. See Technical facts.

The brakes will operate less effectively if the tyres are worn or contain insufficient air pressure. If changing to a different type of tyre, always check the brakes as dimensions may vary.

If you have a high brake, be careful that your fingers do not make contact with the brake when driving with the rear wheel. When transferring sideways in and out of your Panthera, make sure you can lift yourself over the brake so that you do not sit on or get caught on it. If you use the one-hand brake and can stand up, be careful not to open the brake by accident with the back of your legs.



### Driving

Before using your wheelchair outdoors, spend plenty of time honing your driving technique in a secure indoor environment with a flat surface.

Always use the anti-tip devices or ensure someone is behind you as you practise. Do not attempt to drive outdoors until you feel completely confident in your wheelchair.

At speeds above 8 km / h the risk of losing control of the wheelchair increases.

Watch out for obstacles such as doorsteps and gutters in which the small castors could become jammed, causing the user to **fall forwards**.

If the distance between the lowest point of the footrest and the surface is small (less than 40 mm) the footrest could get caught on bumps in the surface and cause you to **fall forwards**.

If you drive down a curb with the anti-tip devices folded out, they may become jammed and cause you to **fall forwards**. If you feel unsafe, fold away the anti-tip devices and ask for help. The wheelchair can also be fitted with push handles which enable the user to be driven by an assistant.

Shopping or groceries can be hung on the backrest in a bag or rucksack, but you must be fully aware that **this substantially increases the risk of the wheelchair tipping backwards**. In this case, the anti-tip devices must be folded out.

Driving on uneven or inclined surfaces increases the risk of **falling both forward and backward**.

## SAFETY REGULATIONS



### Wheelchair skills-ramps, inclined surface, curbs and stairs

#### Driving up on ramps and inclined surface (Fig. 49)

When driving up on a ramp you need to start with some speed, keep the speed and at the same time control your direction. Bend your upper body forward and drive the wheelchair with quick strong strokes on both push rims.

#### Driving down an inclined surface (Fig. 50)

When driving down an inclined surface and slopes it is important that you control the direction and speed. Lean yourself backwards and let the push rims slowly slide through your hands. You should be able to stop the wheelchair at any time by a firm grip at the pushrims.

#### Driving down curbs (Fig. 51, 52)

##### With an assistant (Fig. 51)

Place the wheelchair close to the curbs, the assistant holds the backrest bow and lift up the castor wheels and keep the wheelchair in balance. Then roll both rearwheels slowly down the curbs, while you keep a steady grip on the pushrims with both hands until both castors reach the ground again.

##### Without an assistant (Fig. 52)

Place the wheelchair close to the curbs, lift the castor wheels from the ground and keep the wheelchair in balance. Roll both the rearwheels slowly down the curbs, while you keep a steady grip on the pushrims with both hands until the castor wheels touch the ground again.

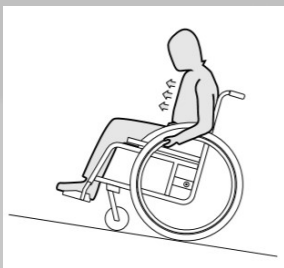


Fig. 49



Fig. 50




Fig. 51



Fig. 52



## SAFETY REGULATIONS

 Wheelchair skills-ramps, inclined surface, curbs and stairs

Driving up and down stairs (Fig. 53)

You can transport yourself in stairs by taking one step at the time according to the instruction below;

One of the two assistants should stand behind the wheelchair and hold the backrest bow. The other assistant should hold somewhere on the frames rigid parts to support the wheelchair in the front.

It is important that the rearwheels has support from the ground. Lifting the wheelchair with a user in it is not allowed.



Fig. 53

## SAFETY REGULATIONS

### Transfer into the wheelchair

Techniques for transfer must be practised extensively together with qualified staff. The methods described below are for advisory purposes only.

#### Transferring into the wheelchair sideways (Fig. 4)

1. Position the wheelchair as close to you as possible.
2. Lock the brakes. See “Brakes” under “Settings”.
3. Place one hand on the far corner of the wheelchair chassis and the other on the surface you are moving from.
4. Carefully transfer yourself into the wheelchair with good balance.

To ensure the wheelchair is as stable as possible, reverse the wheelchair by 5–10 cm before stopping to make sure the Castors are pointing forwards.

### Lifting while the user is in the wheelchair (Fig. 5)

If the wheelchair is to be lifted while the user remains seated, always grip the wheelchair's chassis. See arrows in Fig. 5.

Do not lift using the backrest, push handles, leg support, wheels or other movable sections.



Fig. 4

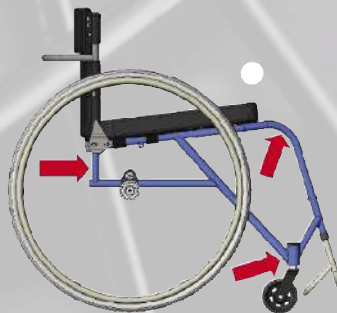


Fig. 5

## SAFETY REGULATIONS

### Hot surfaces

If the wheelchair is exposed to sunshine for long periods, its surfaces may become extremely warm.



#### Risk of jamming

While driving the chair, be aware of the risk of your fingers becoming jammed between the rear wheel and the brake, and between the rear wheel and side guard or armrest. Ensure your fingers or loose items do not become trapped in the rear wheel's spokes while driving. Moreover, take special care to ensure children do not place their hands inside the spokes.



#### Risk of burns

If the wheelchair is equipped with friction pushrims on the drive wheels (see item 7 in Overview), there is a risk of burns to the hands and fingers if you brake the wheelchair at high speed with the hands of the pushrims, as the friction between the hand and the pushrim generates high heat.

## SETTINGS

When adjusting the chair to suit your sitting posture and provide the mobility you require, it is important that you make the adjustments in the correct order.

Firstly, adjust the chair to enable the correct sitting posture. Only then can you adjust the balance of the wheelchair to provide the mobility you require. This must be done in the correct sequence, as adjustments to the sitting posture affect the balance of the wheelchair.

Bear in mind that a little effort adjusting the chair to your requirements initially will be of considerable benefit for a long time to come.

Set aside a day to experiment with alternative settings and see how they feel, to ensure the sitting posture and balance of the wheelchair are just right for you.

Adjustments to the wheelchair's settings must take place in the following order:

- 1) The tension of the seat upholstery.
- 2) The height of the footrest.
- 3) The tension of the calf strap.
- 4) The angle of the backrest.
- 5) The tension of the backrest upholstery.
- 6) The balance of the wheelchair.
- 7) The brake settings.

## SETTINGS

### 1) The tension of the seat upholstery (Fig. 6)

The rear section of the seat upholstery can be tightened or loosened by adjusting the Velcro strap underneath.

This allows you to vary your seat height by around 2 cm upwards or downwards. The seat should be used together with a seat cushion.

### 2) The height of the footrest (Fig. 7)

The footrest can be adjusted either upwards or downwards.

You should adjust the footrest at a height where your thighs are supported by the seat at the same time as your feet are supported by the footplates or foot support.

#### **Adjusting the height of the footrest:**

- 1) Remove the two screws supporting the footrest on the front of the frame using a 3 mm Allen key.
- 2) You can then move the footrest up or down to fit into one of the fixed positions.
- 3) Securely tighten the two screws.

### 3) The tension of the calf strap/heel strap (Fig. 8)

The tension of the calf strap will determine how far forward you can place your feet on the foot support or footplates, respectively. The suitable tension depends largely on how long or short your legs are.

#### **Adjusting the tension of the calf strap (Fig. 8)**

- 1) Loosen the calf strap.
- 2) Place your feet on the foot support/footplates.
- 3) Adjust the tension of the calf strap using the Velcro strap provided.



Fig. 6



Fig. 7



## SETTINGS

### 4) The angle of the backrest (Fig. 9)

1) Fold the backrest forwards.

2) Loosen the lock screws (1) a few rotations using a 17 mm cap key. Repeat this process on the other side.

3) Adjust the angle of the backrest using the adjustment screws (2) on both sides. Using the 4 mm Allen key, unscrew the adjustment screws to tilt the backrest forwards. Tightening the adjustment screws will allow the backrest to tilt backwards.

It is important to adjust both sides equally to avoid the backrest tubing becoming crooked. Test this by placing the backrest in the upright position and checking that both adjustment screws are touching the frame.

3) Experiment with suitable backrest angles before tightening the lock nuts (1) on both sides.

### 5) The tension of the backrest upholstery (Fig. 10)

You can adjust the backrest upholstery to suit the shape of your back using the straps located under the flap at the rear of the backrest. This provides good support to the small of the back.

The backrest upholstery also has a lower flap fastened with Velcro above the seat upholstery, under the seat cushion. This flap can be moved backwards or forwards to obtain the required tension in the lower section of the back upholstery (known as the seat bucket).



Fig. 8



Fig. 9

# SETTINGS

## Adjusting the tension of the backrest upholstery:

- 1) Lift up the backrest upholstery's upper flap (1).
- 2) Loosen the bands.
- 3) Sit as far back in the chair as you can. If it feels as though you are not sitting far back enough in the chair, it may be because the backrest upholstery's lower flap is fastened too far forward on the seat. Loosen the flap (2) and then fasten it further back on the seat upholstery.
- 4) Tighten the bands to ensure you have the necessary support.
- 5) Fold down the backrest upholstery's upper flap (1).

## 6) The balance of the wheelchair (Fig. 11)

The Panthera X has a fixed rear axle so balancing is achieved by moving the body position in relation to the rear axle. This can be done by moving the backrest which can be fixed in 4 different positions. The further back you mount the backrest, the more likely your chair will tip over backward. This means that the chair is light at the front and you have more weight over the rear wheels. The chair is easier to drive and it is also easier to tip up onto the rear wheels to negotiate curbs and steps. The chair should not be balanced with the backrest too far back, however, because of the danger of tipping over.

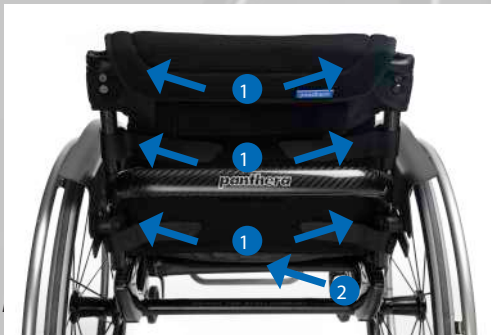



Fig. 10



Fig. 11

## SETTINGS

### 7) Adjusting the high brake

 **Please note!** The effectiveness of the brakes is affected when the air pressure drops, the tyres become worn or when changing to a different type of tyre. As a result, the brakes' settings should be checked from time to time.

### Adjusting the X one-hand brake (Fig. 13)

One-arm brake X is activated by pulling lever (1) backwards until stop. Then both rear wheel are locked at the same time.

- 1) Use a block key 12 mm to loosen the one-hand brake's clamping bolts on both sides.
- 2) You will now be able to push the brake forwards and backwards along the chassis' seat tubing. Adjust the brake so that it presses around 4 mm into the tyre while in locked position.
- 3) Ensure that the brakes are in the same forward position on both sides of the chair.
- 4) Tighten the clamping bolt (1) using block key 12 mm.



Fig. 13

## ACCESSORIES

### Side guards (Fig. 14)

The side guards prevent clothing and loose items from becoming jammed in the wheelchair's spokes and also stop dirt from the wheels getting onto the user's clothing. The side guards are fitted with a soft upper section that folds down upon load, for example, when the user transfers to and from the wheelchair. You can place your hands on the side guards while pulling yourself up and down. The side guards can be removed, during transportation, for example, by pulling them up vertically to release them from their attachments.

### Hip belt (Fig. 15)

A hip belt (positioning belt) may be fitted without affecting conformity to the CE Mark standard.

Hip belts can be fitted around the frame's tubing at one of the locations indicated in fig 15.



Fig. 14



Fig. 15



## TRANSPORT (Fig. 19)



**Panthera X is not crash tested and not approved for use as a seat in a vehicle. At transport in a vehicle you must make a transfer to a regular seat with a safety belt.**

An exception may be made if the vehicle is fitted with a device designed in accordance with Bus Directive 2001/85/EG, Appendix VII, Item 3.8.3. In such cases, the user may travel without a restraint system with the wheelchair facing in the opposite direction to which the vehicle is travelling.



Fig. 19

## TRANSPORTATION

### Assembling and disassembling the wheelchair (Fig. 20 och 21)

When transporting the wheelchair, in a car, for example, the backrest can be folded and the rear wheel detached.

#### Folding the backrest, (Fig. 20)

- 1) Release the side guards, if necessary, and pull them up vertically.
- 2) Remove the seat cushion if necessary.
- 3) Push the backrest forward to fold the backrest.

#### Detaching the rear wheel, (Fig. 21)

- 1) Push the quick release button (1).
- 2) Pull the wheel straight off.

#### Attaching the rear wheel, (Fig. 21)

- 1) Push the quick release button (1).
- 2) Insert the wheel into the rear axle and then push it in as far as possible.
- 3) Check that the button has sprung out (1), confirming the quick release is in locked position.
- 4) Pull the wheel outwards to **ensure it is firmly attached**.



Fig. 20



Fig. 21

## MAINTENANCE - CARBON FIBRE

### **Carbon fibre maintenance and service**

CFRP - Carbon reinforced plastic is stronger, lighter and more durable than metal, but behave different when a damage occurs. Metal bend and deforms when damaged. When CFRP structure brakes it loosens its strength and stability, but without the warning signs that metal presents, like bending and cracking.

CFRP is sensitive to damages made with sharp edges, heavy shocks and unusual forces on a single point. If you suspect that your wheelchair has been damaged, check the whole chassis thoroughly or let a specialist check the wheelchair.

### **Important**

CFRP - Carbon reinforced plastic is a very strong and light material, but also sensitive for heavy impacts and sharp objects. Cracks and other damages on the carbon fibre structure, caused by i.e. a fall backwards on a hard surface can lead to a sudden brake of the chassis.

### **Avoid:**

- Dropping the chassis on hard surfaces
- Scratch or scrape the carbon fibre structure

## **INSPECT YOUR WHEELCHAIR REGULARY**

Press all areas you suspect have been damaged.  
– look for abnormal softness and cracks in the material.

Let your hand slide over the chassis and look for cracks and loose carbon fibre threads. Make smooth, slow movements to avoid getting small carbon fibre parts in your hand.

If you discover anything that looks like a damage, contact Panthera AB. DO NOT try to repair the damage yourself.

## MAINTENANCE

Your Panthera model was designed for rigorous daily use over a number of years, and as such, some parts must be regularly checked.

If using your wheelchair in more demanding environments, such as sand or saltwater, you must examine and clean your wheelchair more often than what is specified below

### Storage

When storing your wheelchair for four months or more, ensure it is kept in a dry, warm area. After storage, check the tyre air pressure and the condition of the upholstery..

### Ongoing maintenance

For ongoing maintenance, you will need the following:

- car shampoo or detergent.
- degreasing agent (for removal of severe dirt).
- multi-purpose oil, for example, CRC 5-56

### Once a month, you must:

- Wipe the wheelchair chassis over with car shampoo or detergent using a damp cloth. To remove severe dirt, use a degreasing agent. After cleaning, lubricate all movable parts with oil.
- Clean the castor fork casing (between the wheel and the fork). Hair and dust, etc. often accumulate here which can damage the bearing. Use two 4 mmm Allen key (if X castor and fork), one 4 m Allen key (if S3 castor and fork) in order to loosen the screw. Remove the bolt and detach the castor. Clean the washers between the wheel and the fork and wipe the outside of the wheel bearing with a cloth. Apply a drop of oil to each bearing. When finished, reassemble the components.
- Lubricate the rear wheel's quick release. Remove the rear wheel by pressing the quick release button and pulling the wheel straight off. Distribute a few drops of oil over the quick releases at the hub of the rear axle. If you drive in rain, sand, salt or slush, or rarely remove the rear wheel, you should lubricate the quick releases more regularly.
- Pump up the tyres. Unscrew the cap from the tyres' air valves. Fill the tyres with air at the correct pressure using a suitable valve adaptor (see Technical facts).
- Check that all the screws and nuts are securely fastened. Tighten them where necessary.
- Ensure the wheelchair has not sustained any damage. In the event of damage, immediately contact your local supplier or the team at Panthera AB.

### Twice a year, you must:

- Lubricate the movable parts of the brakes with a few drops of oil.
- Lubricate the joint of the backrest with a few drops of oil.
- Wash the upholstery when necessary. Machine wash the seat upholstery, backrest upholstery and seat cushion cover at 40°C. Before washing, attach the male velcro to female to prevent the upholstery to get rugged by the velcro.

### Help with service and repair

For help with service and repair, contact your local supplier first (Assistance centre). You can also contact the team at Panthera AB if you wish.

Instructions for reconditioning can be downloaded at [www.panthera.se](http://www.panthera.se)



## Replacement of wear parts (Fig. 25 och 26)

Wear parts such as tyres, inner tubes and Castors can be ordered from Panthera, with the work carried out at home for those able to do so. Otherwise, contact your wheelchair provider or Panthera.

[www.panthera.se](http://www.panthera.se)

To replace these yourself, do as follows:

### Replacing tyres and inner tubes: (Fig. 25)

- 1) Order parts from Panthera in the correct dimension.
- 2) Remove the rear wheel by pressing the quick release button and pulling the wheel straight off.
- 3) Remove the tyre and inner tube using suitable tools. The method is the same as that used for changing the tyre and inner tube on a bicycle wheel.
- 4) Carefully fit the inner tube and tyre to ensure the inner tube is not punctured. Pump up the tyre.
- 5) Reattach the wheel to the wheelchair, taking care to ensure the quick release button springs out so the wheel is securely fastened to the hub. Pull the wheel outwards to ensure it is firmly attached. Spin the wheel to ensure the tyre has been fitted correctly and the wheel is completely circular.

### Replacing Castors: (Fig. 26)

- 1) Order parts from Panthera in the correct dimension.
- 2) Detach the castor using two 4 mm Allen key (if X castor and fork), one 4 mm Allen key (if S3 castor and fork).
- 3) (if S3 castor and fork) When attaching the new castor, hold down both bushings using your thumb and index finger and then guide the castor into the fork.  
At reassembly of castor wheel after cleaning or service you should always check the bolt for thread locking (blue, red or green colour), which indicates sufficient thread locking. If the thread locking is missing, always order a new bolt or apply a small amount of weak thread locking.
- 4) Tighten fully using two 4 mm Allen key (if X castor and fork), one 4 mm Allen key (if S3 castor and fork). Ensure that the castor turns easily



Fig. 25



Fig. 26

## 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 your wheelchair provider 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 X is suitable for reuse. Prior to being reused, the wheelchair must be cleaned, disinfected and dispatched to an authorised reseller for inspection.

## CONFORMITY (Fig. 27 och 28 )

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

See page 3 for explanation of symbols..



Fig. 27

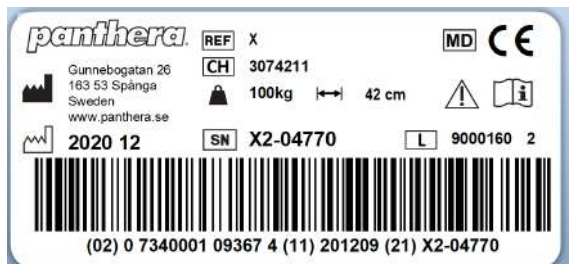


Fig. 28

## TECHNICAL FACTS

### PANTHERA X

Seat width (cm)	33	36	39	42	45
Total width	53,5	56,5	59,5	62,5	65,5
Total length	82,5	82,5	82,5	82,5	82,5
Total height	69	69	69	69	69
Seat					
Seat angle	7°	7°	7°	7°	7°
Seat height rear	43	43	43	43	43
Seat height front	47	47	47	47	47
Seat depth	35-46	35-46	35-46	35-46	35-46
Backrest					
Angle back-forward	7,5- 11,5°	7,5- 11,5°	7,5- 11,5°	7,5- 11,5°	7,5- 11,5°
Rearwheel diameter	24", 25"	24", 25"	24", 25"	24", 25"	24", 25"
Pushrim diameter (mm)	555, 580	555, 580	555, 580	555, 580	555, 580
Rearwheel camber angle	2,2°	2,2°	2,2°	2,2°	2,2°
Castor diameter (mm)	87	87	87	87	87
Footrest to seat - measure	35-43	35-43	35-43	35-43	35-43
Transport measure					
Width	40	43	46	49	52
Length	74	74	74	74	74
Height	38,5	38,5	38,5	38,5	38,5
Weight					
Max. angle with brake	5°	5°	5°	5°	5°
Total (g) *	4400	4450	4500	4550	4600
Transport	2100	2150	2200	2250	2300
User weight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Carbon fibre				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				

\* Weight measured with brake.





# panthera®



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*Panthera AB reserves the right to make technical changes if required*



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