

# **USER MANUAL**

CE

Our passion – your independence!





**CAUTION!** Manufacturer takes responsibility for proper usage of the device only when the product was purchased from qualified Akces-Med employee or at specialized medical store!

**CAUTION!** AKCES-MED Ltd. reserve the right to introduce technical and trading changes in the content of the instruction without warning.



Medical product first class according to the Regulation 93/42/EWG of European Parliament and Council regarding medical products. For this product the producer issued relevant declaration of conformity.

Akces-Med. Sp. z o.o. Company introduced quality management system ISO 13485 regarding production, sales and service. The system is certified by Det Norske Veritas.





# CONTENTS

1. The purpose of user manual	5
2. Indications for use	5
3. General characteristics of stroller	6
3.1. Standard equipment	6
3.2. Additional equipment	
4. Size table	
5. Detailed description how to use stroller	
5.1 How to use the stroller	
5.2 Folding the stroller for transportation	
5.3 Rear PU wheels	
5.4 Front PU swivel wheels with direction blockade	
5.5 Central brake	
5.6 Hard/soft suspension system	
5.7 Fully reclining backrest	15
5.8 Detachable and reversible seat unit	
5.9 Adjustable footrest	
5.10 Feet stabilizng belts	
5.11 5-point safety belts with a Velcro fastening	
5.12 Adjustable abduction block	
5.13 Front rail	
5.14 Adjustable headrest	24
5.15 Folding canopy	
5.16 Adjustable lateral supports	
5.17 Narrowing pads	
5.18 Leg cover	
5.19 Under seat storage basket	
5.20 Bag	
6. The use of stroller	
6.1.Preparation of the patient	
6.2. Preparation of the stroller	
7. Safety rules	
8. Maintenance and cleaning	
9. Labelling	

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# INTRODUCTION

**Aurora**<sup>™</sup> is an advanced special needs stroller that combines a new generation design with a modern look. It is designed for the youngest patients with limited locomotor abilities. It holds the most essential features of the special needs stroller, not resembling one at the same time. The proven technical solutions used in the stroller make it safe, stable and very comfortable.

The biggest advantage of the **Aurora<sup>™</sup>** stroller is its convenient multifunctional reversible seat. It allows the child to interact with the caregiver or the environment, depending on the seat position. A tilt-in-space function allows for smooth adjustment of the inclination angle of the entire seat. The adjustable cushions and side supports provide excellent lateral stabilization. In addition, there is the possibility of changing the height of the headrest, the angle of the backrest and the footrest.

The **Aurora**<sup>™</sup> stroller has been equipped with adjustable shock absorbers. There are two modes to choose from: City and Comfort. The front swivel wheels with blockade make it easier to maneuver the stroller in tight and narrow spaces. As standard, the stroller is equipped with practical accessories: an adjustable folding canopy, leg cover, capacious under seat storage basket and bag. Numerous reflective elements placed on the stroller provide additional safety. The stroller is available in one universal size. A wide range of adjustments make it possible to adapt the stroller to the individual needs of smaller or larger children.

If you have any questions or remarks, do not hesitate to contact with us: **Medical consultant:** mobile +48 508 382 509 **Akces-MED Sp. z o.o.:** ph. +48 17 864 04 77 **e-mail:** export@akces-med.com **Thank you for purchasing our product!** 



**CAUTION!** Before using the product, user is obliged to familiarize himself/herself with user manual. Remember that complying with guidelines is highly important. It assures safety and extends durability as well as aesthetics of the





# **1** THE PURPOSE OF USER

The present user manual contains basic information which is essential for proper usage, preparation, maintenance, cleaning and guarantee conditions regarding **AURORA™** stroller.

User manual should be kept in easily accessible place. It is designed for people who look after disabled children, and for both doctors as well as physiotherapists who operate the device.



**CAUTION!** Before using the product, user is obliged to familiarize himself/herself with user manual.

Remember that complying with guidelines is highly important. It assures safety and extends durability as well as aesthetics of the device.

# 2 INDICATIONS FOR USE

The device is recommended for people in the following cases:

- Cerebral palsy various types and forms.
- Brain and spinal cord injuries with lower limbs paralysis and weakness, balance and motor coordination disorders with different etiology.
- Demyelinating disease (e.g. multiple sclerosis SM).
- Meningocele.
- Muscles diseases with weakness and paralysis (dystrophy, myasthenia gravis, myositis).
- Genetic disorders.
- Degeneration and neurological diseases.
- Other condition connected with muscles weakness, paralysis and musculoskeletal disorders.
- After head and spinal cord injuries and spine trauma with paralysis and paresis.





# **GENERAL CHARACTERISTICS OF STROLLER**

#### 3.1 Standard equipment

- 1. Adjustable headrest
- 2. Adjustable lateral supports
- 3.5-point safety belts with a Velcro fastening
- 4. Front rail
- 5. Removable abduction block
- 6. Seat narrowing pads
- 7. Detachable and reversible seat unit 16. Tilt-in-space adjustment
- 8. Adjustable footrest with supporting belt
- 9. Front PU swivel wheels with direction blockade – quick release
- 10. Folding canopy

- 11. Adjustable push handle
- 12. Bag
- 13. Fully reclining backrest converting the stroller into a lounger (couch function)
- 14. Waterproof upholstery hydro<sup>™</sup> : DENIM / MELANGE / VULCANO
- 15. Foldable frame
- 17. Hard/soft suspension system
- 18. Rear PU wheels with central brake quick release
- 19. Under seat storage basket Rain cover Leg cover







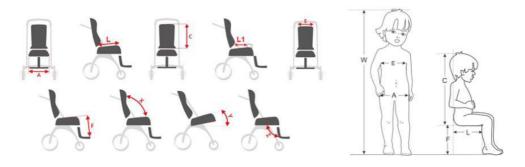
#### 3.2. Additional equipment







SIZE TABLE



Symbol	Measurement	Unit	Size 1
w	Indicative user height***	[cm]	110
Α	Seat width	[cm]	18* / 27
L	Seat depth	[cm]	30
с	Headrest height	[cm]	43 - 51
E	Backrest width	[cm]	20** / 28
F	Footrests length	[cm]	23, 26, 28
	Backrest height	[cm]	55
L1	Seat depth to the abduction block	[cm]	11 - 22
	Footrests length	[cm]	18,5
х	Backrest tilt angle	[°]	110 - 180
Y	Seat tilt angle	[°]	0-30
z	Footrests tilt angle	[°]	90 - 180
	Maximum user weight	[kg]	40

Measurement		Size 1	
Width	[cm]	67	
Length	[cm]	118	
Height	[cm]	96	
Width after folding	[cm]	62	
Length after folding	[cm]	95	
Height after folding	[cm]	47	
Weight	[kg]	19	

Note: Measurement tolerance range is +/- 1 cm / ½ in..

Note: Approximate values, depending on the product configuration.

\*Measurement starts from narrowing pad.

\*\* Measurement starts from lateral supports

\*\*\* The value cannot be main factor for selection of product size





# **5 DETAILED DESCRIPTION HOW TO USE STROLLER**

#### 5.1. How to use the stroller

After receiving the stroller, first you should unfold it. In order to do that, follow these steps:

STEP 1. Unlock the stroller frame (see point 5.2, step 5, page 13).

**STEP 2.** Pull the frame until the folding mechanism of the stroller clicks into its place (fig. 1-4)





**CAUTION!** Pull up the handle until you the frame "CLICKS" into place.





STEP 3. Mount the rear and front wheels on the frame of the stroller (fig. 5-6).





**STEP 4.**To mount the seat of the stroller, put it into the dedicated places on the frame (fig. 7-9).





**CAUTION**! While placing the seat on the frame, you should hear a characteristic "CLICK" sound. Pull the seat up before use in order to check if it has been mounted correctly. Also, make sure that the red buttons, used to disassemble the seat, are unlocked.





The seat can be mounted either forwards or backwards.





#### 5.2 Folding the stroller for transportation

In order to fold the stroller, you should:

**STEP 1.** Remove the seat from the frame by pushing the red buttons (1) (fig.12) on both sides of the stroller and pulling the seat up (fig.13).



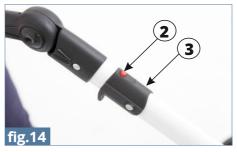


STEP 2. Unclip the front wheels (see point 5.4.1, page 13).





**STEP 3.** Fold the frame by pushing the red buttons (2) located on the stroller frame (fig. 14), and pulling the black handles (3) (fig. 15-16) at the same time until the frame is unlocked.







**STEP 4.** When the handles are pulled back, push the frame down until it folds completely (fig. 17-20).







**STEP 5.** A special lock secures the frame of the stroller against accidental unfolding (fig. 21-22).





**STEP 6**. To obtain smaller dimensions of the stroller after the assembly, it is recommended to disassemble the rear wheels (**see 5.3**, **Rear PU wheels**, **page 13**).

#### 5.3 Rear PU wheels

The stroller is equipped with rear PU wheels. To remove them, push the button located in the center of the wheels (fig. 23-24).





#### 5.4. Front PU swivel wheels with direction blockade

The stroller is equipped with front swivel wheels.

5.4.1 To remove them, push the button located above the wheel (fig. 25, 26).









5.4.2 You can block the swivel function of the front wheels by turning the knob (fig. 27) located above the wheel in a clockwise direction. To release the blockade, turn the knob counter-clockwise (fig. 28).



#### 5.5. Central brake

To immobilize the stroller, push the brake lever located in the lower part of the stroller frame (fig. 29). To unlock the central brake, lift the lever up (fig. 30).





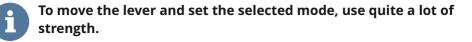


#### 5.6. Hard/soft suspension system

The stroller is equipped with adjustable suspension system with shock absorbers (hard/soft). It is regulated by the lever located at the shock absorber, next to the rear wheel (fig. 31, 32). There are two possible modes to choose from:

- hard mode (fig. 31) it is set when the lever indicates the direction of the stroller movement. It should be used while driving on the level and flat surfaces (e.g. while driving on the asphalt). It is also recommended for heavier patients.
- **soft mode** (fig. 32) it is set when the lever indicates the direction opposite to the stroller movement. It is meant for driving on uneven, bumpy terrain. It is also recommended for patients with lower weight.











# 5.7 Fully reclining backrest converting the stroller into a lounger (couch function)

To adjust the tilt angle, pull up the handle which is on the back of the backrest (fig. 33), set the backrest at the desired angle and then release the handle.

The setting of the backrest is adjusted gradually (fig.34).

**CAUTION!** Do not adjust the backrest with the patient on the stroller.





#### 5.8. Detachable and reversible seat unit

After each adjustment of the lever, make sure that the seat has been successfully blocked by properly tightening the lever. The lever should be released and turned clockwise (do not do it too much). Over-tightening of the lever will make it impossible to press it down after setting. The tilt-inspace function adjustment is very smooth. Possible settings (fig. 36).











**CAUTION!** Before releasing the lever, hold the seat of the stroller firmly. Do not adjust the seat with the patient on the stroller.

#### 5.9. Adjustable footrest

5.9.1 To adjust the angle of the footrest, release the clamping lever (5) located on one side of the footrest (fig. 37), set the desired angle (fig. 38) and press the lever firmly (5).



After each adjustment of the lever, make sure that the footrest has been successfully blocked by tightening the lever. The lever should be released and turned clockwise (do not do it too much). Over-tightening of the lever will make it impossible to press it down after setting.

5.9.2 In order to adjust the length of the footrest, remove the pin from the footrest frame, set the desired length of the footrest, and reinsert the pin.





#### 5.10. Feet stabilizng belts

The length of the feet stabilizing belts is adjusted with the use of Velcro fasteners (fig. 39-40). The feet belts are attached to the footplate from the bottom (fig. 41-42).



#### 5.11. 5-point safety belts with a Velcro fastening

To mount the 5-point belts:

STEP 1. Fasten the Velcro fastening as shown below (fig. 43-46).













**STEP 2.** Thread the end of the upper belt through the suitable hole in the upholstery (fig. 47), and take it out at the back of the backrest (fig. 48). The belt will block by itself thanks to the buckle at its end. Do the same with the second upper belt





**STEP 3.** Using, for example, an upholsterer's knife, carefully pry off and remove the plastic cover located on the side of the seat (fig. 49, 50).









**STEP 4.** Insert the bottom belt together with the buckle through the hole in the upholstery located between the backrest and the seat of the stroller, and pull it to the side (fig. 51, 52).



**STEP 5.** Place the plastic buckle on the strap in the way shown in the picture (fig. 53).





**STEP 6.** Insert the end of the belt again through the same hole in the upholstery (fig. 54) and drag it through the buckle (fig. 55-57). The same should be done with the second bottom belt













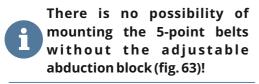
**STEP 7.** Put the last, middle strap together with the abduction block into one of the 4 holes in the seat (fig. 58-62).







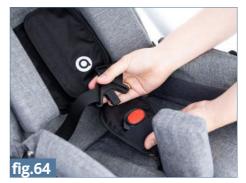
The belt with the abduction block must be secured with the knob on the underside of the seat (fig. 62).



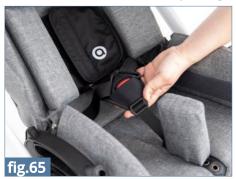


**STEP 6.** Next, put the fasteners together (fig. 63) and insert them into the fastening located on the seat (fig. 64).





There is a possibility of adjusting the length of the 5-point belts with the use of the buckle showed in the photographs (fig. 65, 66).







CAUTION! Before using the stroller, the child must be fastened with the 5-point safety belts! Make sure the belts are properly fastened by pulling them.





#### 5.12. Adjustable abduction block

Mount the adjustable abduction block on the seat as instructed in point 5.10 (look pt 5.10, STEP 7, page 21).

#### 5.13. Front rail

To release the front rail, push the red buttons (5) and slide the rail out of the frame (fig. 67-68).







Depending on how you mount the front rail, it can be set higher or lower than the seat (fig. 69, 70).











#### 5.14. Adjustable headrest

To fix the headrest, first undo the zip which is on the side of the backrest (fig.71).



The headrest is attached to the backrest with the strings, which should be inserted into the holes in the upholstery at the desired height (fig. 72-73) and tied at the back of the backrest (fig. 74-75).



The headrest can also be mounted lower, in the place of mounting the 5-point belts, in the situation when the belts are mounted in one of the two lowest settings.





#### 5.15. Folding canopy

To mount the folding canopy, put it in the fasteners located on the backrest of the stroller (fig. 76-77), at the same time pressing the button on the folding canopy (fig. 78).



# Fig.77

# fig.79

#### 5.16. Adjustable lateral supports

The lateral supports of the stroller are attached to the backrest upholstery with the use of Velcro (fig. 80).







#### 5.17. Narrowing pads

Pads narrowing the seat width are attached to the seat upholstery with the use of Velcro (fig. 81).



#### 5.18. Leg cover

The leg cover is fastened to the seat with the use of press studs (fig. 82-84).







#### 5.19. Under seat storage basket

The under seat storage basket is fastened with a zipper on the stroller frame under the seat (fig. 85-86).





CAUTION! The maximum load of the under seat storage basket is 1,5 kg! Overloading the basket may cause the stroller to lose its balance! \*

#### 5.20. Bag

The bag is hung on special hangers on the push handle of the stroller. (fig. 87-88). If the backrest is placed in the lying, forward facing position, there is a collision between the bag and the backrest of the stroller.





CAUTION! The maximum load of the bag is 1,5 kg! Overloading the bag may cause the stroller to lose its balance! \*

\*CAUTION! The total load of the stroller along with the patient, content of the bag and the under seat storage basket cannot exceed 25 kg!







# 6 THE USE OF STROLLER



**CAUTION!** AURORA<sup>™</sup> stroller has to be used with compliance to guidelines included in this user manual. Remember to use the product only with someone who is trained and knowledgeable. Do not forget to prepare both product as well as patient before using AURORA<sup>™</sup> stroller!

#### 6.1. Preparation of the patient

Before using the product, it is essential to make sure that:

- · patient's outfit is light and comfortable sporty clothes are advisable;
- · shoes should be comfortable and, moreover, they should stabilize ankle;
- due to hygienic reason and to avoid abrasion it is advisable for the patient to always wear clothes when using the device, skin must not be naked especially in places of regular contact with upholstery;
- $\cdot$  drains, bags, catheters etc. if applied, have to be secured to function properly and not to disturb during using the product;
- if it is necessary for a patient to wear orthopedic supply (collar, corset, orthesis, shoes) if it is recommended by doctor.



**CAUTION!** Outfit should protect patient's skin from direct contact with upholstery as well as other parts of equipment.

**CAUTION!** Only doctor can make a decision concerning using any kind of orthopedic supply!





#### 6.2. Preparation of the stroller

- 1. Before use it is necessary to:
  - Unfold the device;
  - · Place the device on even ground;
  - · Make sure that all parts are serviceable, correctly mounted and stable;
  - Block brakes;
  - · Adjust the device to patient's measurements;
  - Undo vest, trunk belts etc so as to place easily the patient is the device;
  - · Place patient in the device;
  - Fasten all elements which stabilize patient e.g. vest, trunk belts, feet stabilizing belts etc.;
  - · Mount additional equipment e.g. tray.
- 2. In case of patients who have problem with bladder, it is necessary to put special cloth on seat. This cloth can be purchased in pharmacy or medical shops.
- 3. It is essential to hold stroller with the aid of handle during using it otherwise stroller can roll.
- 4. Remember to place stroller forwards
- 5. In case of any obstacles such as step or curb, it is necessary to raise front wheels by pressing the handle down . Next, place front wheels on step and then raise back part of stroller with the aid of handle.



**CAUTION!** Before the product is used, it is highly necessary to make sure that all belts as well as safety equipment are correctly fastened as well as adjusted. What is more, check if they do not become undone due to the pressure and, moreover, make sure that clampings from adjustable elements are firmly tightened!

Equipment works correctly only when the device is adjusted according to patient's height as well as weight. Remember to take all these measurements into account while purchasing the product. Correct adjustment is the most important due to the fact that only then the product is safe. It is forbidden to force child to keep specific position because he/she will feel uncomfortable and it may lead to wrong posture.







# 7 SAFETY RULES



**CAUTION! AURORA™** stroller has to be used in compliance with guidelines in this user manual.

It is highly important to consult either doctor or physiotherapist in order to make right decision concerning the choice of stroller and its size. It is also essential to familiarize with the guidelines described in user manual before using the device.

- 1. Before use it is necessary to:
  - make sure that there are no damages or different faults which could endanger patient's life; check if all parts are working and are correctly mounted and, moreover, check if they are not broken;
  - check if all screws, knobs and all glued, sewed or tapped parts are tightened;
  - · check if brakes are operating correctly;
  - · check if buckles are operating correctly;
  - · always use safety belts, Velcro tapes should overlap min. 8cm;
  - adjust the device according to patient's measurements and needs e.g. the adjustment of pelottes, footplate etc.;
  - make sure that all movable parts and knobs for adjustments are stable and locked;
  - secure patient with the aid of elements such as vest, foot stabilizing belts, pelottes, abduction block, headrest. It is highly important to secure patient because it safeguards him/her from falling out. If abduction contracture occurs, it is recommended to use abduction block in order to prevent ulcers between knees.





- 2. It is forbidden to use stroller for different purposes that it is intended to.
- 3. It is forbidden to use stroller when it is damaged or any part is missing.
- 4. It is forbidden to leave the patient unattended.
- 5. Stroller should be used only when there is someone who is trained and knowledgeable.
- 6. It is forbidden to leave stroller and the patient on unstable ground unattended, even if the brake is engaged.
- 7. It is forbidden to either go up or down the stairs; it doesn't matter if the patient is placed in the device or not.
- 8. It is important to engage brake during getting into and getting out the stroller.
- 9. Make sure that all limbs are not close to spokes or other adjustable elements.
- 10. Although the device and the upholstery are made of fire-resistant materials, please pay your attention when approaching to sources of fire or sources of high temperature during using the device. Moreover, wheelchair shouldn't be stored in rooms with high humidity.
- 11. Secure stroller during transportation in order to avoid any possible damages. Manufacturer doesn't take responsibility for damages which appeared due to improper preparation of the device during transportation.





**CAUTION!** It is forbidden to place the patient in the device while being in car, bus or train.

**CAUTION!** The product contains small parts which children may swallow.

**CAUTION!** It is forbidden to make any changes concerning stroller 's structure due to the fact that it is dangerous and it results in loosing warranty.

**CAUTION!** The weight of user should not be bigger than maximal weight described on page 8 where you will find information regarding this issue.

- 1) **Akces-MED Sp. z. o. o** sells products free from manufacturing defects or faults.
- 2) Manufacturer gives the purchaser **24-month** guarantee from the date of purchase. All defects revealed during warranty period will be repaired free of charge.
- 3) All defects which appear after warranty period can be repaired only when the user will pay for it. This rule doesn't apply to refunded products user can ask National Health Refund for refund.
- 3a) The stroller is covered by a 36-month warranty on the territory of Canada the details of the rights resulting from the extended warranty are regulated by the warranty card.
- 4) Manufacturer claims that the product can be used for 48-months. User can use this product after this period only when he/she will send the device to manufacturer so as to service it. Next, manufacturer determines again how long the product can be used and, moreover, the date of the next service will be determined.
- 5) If product is damaged, please contact our dealer or **Akces-MED Sp. z. o. o** customer service (ph. 17/8640470, e-mail: export@akces-med.com)





# 8 MAINTENANCE AND CLEANING

Stroller should be kept clean and used in compliance with the manufacturer's recommendations. The device should be kept in clean, dry and ventilated room. Maintenance as well as cleaning have to be performed at least once a month. Regular cleaning and maintenance of stroller are indispensable to maintain its correct functionality as well as safety.

It is highly advisable to remember about proper maintenance in order to extend product's aesthetics. So as to do that, it is essential to comply with these guidelines:

- It is recommended to clean upholstery with the aid of cleaning product, soft sponge and warm water. If you use sponge which is too wet, stain may get bigger, upholstery may be destroyed. It is necessary to remember that the excess of dampness should be removed from fabric before next cleaning. Please rinse upholstery with warm water and clean white cloth once stain is removed.
- 2. It is forbidden to soak upholstery!
- 3. It is forbidden to clean upholstery with the aid of hard brushes.
- 4. It is forbidden to clean upholstery with strong chemical agents such as solvent or caustic chemicals.



**CAUTION!** Akces-MED. Sp z o. o takes no responsibility for damages caused by use of wrong clearing agent.

- 5. It is forbidden to soak upholstery during cleaning. Remember that upholstery has to be always dry before using.
- 6. It is forbidden to clean, make any changes and maintain wheelchair during using it.
- 7. All metal as well as plastic elements should be cleaned by hand with the aid of general cleaning products. Remember to familiarize yourself with cleaning product's leaflet.







**CAUTION!** Remember that upholstery has to be always dry before using!

Before using it is necessary to:

- clean wheels;
- check if base as well as wheels are correctly mounted; check if brake stops turning wheel;
- make sure that all wooden parts e.g. tray don't have splinters;
- check if wheelchair construction is free of breaks or any kinds of deformities;
- check if all movable parts are working and all screws, nuts, knobs etc. are correctly tightened;
- check if belts, vests, trunk belts, feet stabilizing belts etc are not frayed; check if buckles and clamps work correctly.



**CAUTION!** Manufacturer takes responsibility only for hidden faults or damages which appeared despite the fact that user complied with the guidelines.

**CAUTION!** In case of any damages, it is essential to contact the person who sold you the product.







# LABELLING

#### 9.1. Symbols

CE	Declaration that the product meets the essential requirements	紊	Protect from sunlight
REF	Catalog number	sc	Storage temperature limitation
SN	Serial number	45%	Relative humidity storage
i	Please read the manual instructions before use		Dry vertically
$\land$	Attention!	X	Do not chlorinate
	Producer	$\bowtie$	Do not iron
	Production date	$\boxtimes$	Do not dry in a drum dryer
LATEX	The product does not contain latex	X	Do not bleach
Ť	Store in a dry place	Ţ	Careful! delicate content
	Prohibition of use without fastened safety belts		Prohibition to leave the patient without care during use of the product
			It is forbidden to either go up or down the stairs; it doesn't matter if the patient is placed in the device or not.

#### 11.2. Example of identification plate





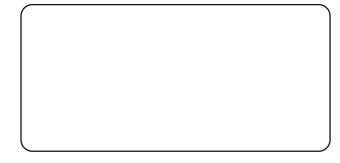
#### **ORTHOPAEDIC DEVICES MANUFACTURER**



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