



# HIPPO+™

SPECIAL NEEDS STROLLER



USER MANUAL

*Our passion - your independence!*

# AKCESMED<sup>®</sup>



**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.





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## INTRODUCTION

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**HIPPO+**<sup>TM</sup> stroller is a special wheelchair which was created with the aim to help during rehabilitation process and daily activities. The stroller is created for children with illnesses which make independent sitting and standing difficult or impossible. Stroller is equipped with stabilizing function. It is possible to secure patient with the aid of elements during taking sitting as well as reclining position. This characteristic is beneficial due to the fact that it prevents contractures and further deformations.

New stroller **HIPPO+**<sup>TM</sup> is better and improved due to additional solutions thanks to which using the product is more comfortable. **HIPPO+**<sup>TM</sup> is equipped with shock absorbers which make it possible to use the product outdoors and, moreover, they soften the vibration. Furthermore, the stroller has canopy which protects from sun and wind.

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.

If you have any questions or remarks, do not hesitate to contact with us:

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**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 device.

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## 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 **HIPPO+**<sup>TM</sup> 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.





## **3 GENERAL CHARACTERISTICS OF STROLLER**

### **3.1. Standard equipment**

1. Foldable frame with wheels
2. Swivel front wheels
3. Swivel lock for front wheels
4. Drive system with shock absorbers and brake
5. Detachable seat
6. Adjustable footrest
7. Roomy basket
8. Removable Abduction block
9. Adjustable backrest
10. Adjustable side pelottes
11. 5 points seat belts
12. Adjustable headrest
13. Adjustable and folding canopy
14. Adjustable ergonomically shaped handle
15. Leg cover
16. Back pumped wheels
17. Rail
18. Folding mechanism
19. Lock which prevents front wheels from dismantling
20. Lock which prevents back wheels from dismantling
21. Rain cover
22. Bag
23. Pump
24. Additional pillows for seat and backrest (1 size)
25. Lumbar pad (size 1)





### 3.2. Additional equipment



**Safety**

**HPO\_001 LED lamps**

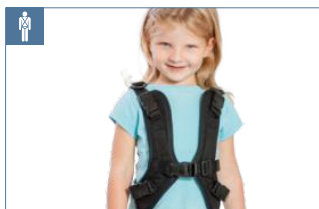


**HPO\_007 Infant car seat**



**Stabilization**

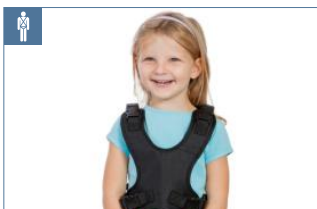
**HPO\_101 Abduction-adduction thigh belts**



**HPO\_114 H Harness**



**HPO\_124 Loins support**



**HPO\_130 4 points safety vest**



**HPO\_138 Head support with belt**



**HPO\_137 Reduction set consisting of additional seat**



**Comfort**

**HPO\_402 Umbrella**



**HPO\_409 Mosquito net**



**HPO\_410 Headrest cover**



**HPO\_411 Cup holder**



**HPO\_414 Tray**



**HPO\_422 Carrycot**



**HPO\_415 Wheels cover (4 pcs)**





## Built-up



HPO\_600 Kid-sit Buggypod IO



HPO\_601 Kid-sit Buggypod LITE



HPO\_602 Extension bar for Buggypod



HPO\_603 Mounting set 70



HPO\_604 Rain cover for Buggypod



HPO\_605 Adaptation set



HPO\_611 Buggypod PERLE



## Spare parts



HPO\_714 Rear wheel  
HPO\_715 Tire rear  
HPO\_716 Innertube rear



HPO\_717 Front wheel  
HPO\_718 Tire front  
HPO\_719 Innertube front



## Storage

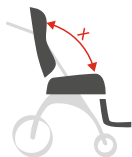


HPO\_506 Travel Bag Standard





## 4 SIZE TABLE



Symbol	Measurement	Unit	Size 1	Size 2
A	Seat width	[cm]	20*, 31	34
	Seat depth	[cm]	29	29
	Głębokość siedziska do klina	[cm]	19	24
C	Backrest height (without headrest)	[cm]	40*, 45	55
D	Backrest height (with headrest)	[cm]	38-46	55-64
E	Backrest width (with side pelottes)	[cm]	9-18	12-22
	Backrest width (without side pelottes)	[cm]	31	34
F	Footrests length	[cm]	16, 22*	24, 28
	Footplate length	[cm]	14	18,5
	Push handle height	[cm]	100	100
X	Backrest tilt angle	[°]	90-140	90-140
Y	Seat tilt angle	[°]	15	15
Z	Footrests tilt angle	[°]	90-180	90-180
	Maximum user weight	[kg]	20	30

Weight and dimensions of the device		Size 1	Size 2
Width	[cm]	66	66
Length	[cm]	109	113
Height	[cm]	105	113
After folding width	[cm]	66	66
After folding length	[cm]	115	125
After folding height	[cm]	56	56
Weight	[kg]	19,5	22

\*with reduction set consisting of additional seat  
 Note: Dimensional tolerance in the table is +1/-1 cm.





## 5 DESCRIPTION HOW TO USE STROLLER

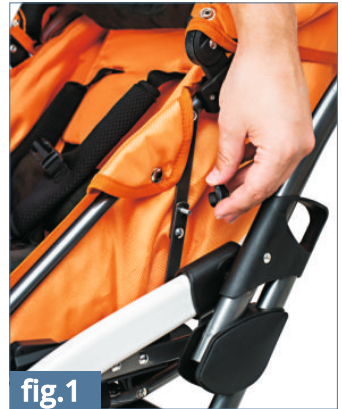
### 5.1. Unfolding stroller for usage

5.1.1. It is necessary to unfold the part of seat after receiving the product. In order to do that, follow these steps:

**STEP 1.** Unscrew knobs and remove blocking screws.

**STEP 2.** Pull stroller hood upwards till brackets situated on each side of stroller are placed on the same line and mounting holes overlay.

**STEP 3.** Fasten cover





5.1.2. To unfold stroller it is important to pull handle upwards (fig.4) till folding mechanism is latched (fig.5).



5.1.3. It is necessary to place seat in proper places of frame in order to mount seat on frame (fig.6, 7).

**Seat can be mounted either forwards or backwards.**





## 5.2. Folding stroller for transportation

5.2.1. In order to remove seat it is necessary to fasten levers which are placed on sides of the stroller till they are blocked (fig.8). This activity should be repeated for the other side of stroller.

Seat construction should be removed from frame. Pull it upwards so as to remove it (fig.9)



5.2.2. When internal construction is taken out, it is possible to fold stroller's frame. In order to do that, pull simultaneously handles which are placed on both sides of frame till frame's pipes are unblocked from handles. Next, fold stroller by pulling either lower (fig.10) or upper (fig.11) handles.





Next, fold stroller's handle in the direction of front wheels (fig. 12).

5.2.4. It is also possible to dismantle wheels for transportation (fig. 13).



Press buttons situated in the middle of wheel so as to dismantle back wheels (fig.14, 15).





## 5.3. Backrest

### 5.3.1. Adjustment of backrest's tilt angle

Backrest's tilt angle can be adjusted. It is necessary to pull handle situated at the back of backrest upwards. Then, adjust backrest at your discretion and release handle (fig.15).



fig.15

## 5.4. Adjustment of footrest

### 5.4.1. Adjustment of tilt angle

It is possible to adjust footrest's tilt angle. Press Simultaneously buttons (fig.16) placed on both sides of footer in order to release hinges. Footrest is blocked at chosen position when buttons are released



fig.16

### 5.4.2. Adjustment of length

There are three configurations which may be applied while adjustment of foot rest's length. Unscrew knobs situated at the back of footrest and remove screws. Adjust footer at your discretion, insert screws into proper holes and tighten knobs once again..



fig.17



**CAUTION!** The footrest should always be tighten with 4 screws .



## 5.5. Safety belts

5.5.1. In order to fasten safety belts it is important to join 2 plastic elements placed at upper parts of belts (fig.17) and insert them into zip from lower part of stroller (fig.18).



fig.17



fig.18

## 5.6. Reduction and stabilization set

5.6.1. Stroller is equipped with seat pillow and lumbar pelotte. Reduction is applied in case of small children in order to adjust correct as well as comfortable position. What is more, pillows can be easily dismantled which is really beneficial when children will grow.



fig.19







## 5.7. Footer belts

Footer belts are adjusted with the aid of Velcro tapes. Remember that belts should be fastened criss-crossed so as to stabilize footers (fig.20-22).



fig.20



fig.21



fig.22

## 5.8. Rail

5.8.1. It is essential to unfasten lock (2) before disassembly of rail. Lock protects baby from falling out from stroller (fig.23)

5.8.2. In order to dismantle rail it is necessary to pull locks away (locks are situated on both sides). Then, block locks.

5.8.3. Place rail on frame's pipes and block locks so as to rail is mounted.



fig.23





## 5.9 Brakes

5.9.1. Press brake's lever (1) situated at the back part of frame to immobilize stroller.

5.9.2. Pull lever upwards (2) to release brake.



fig.24

## 5.10. Adjustment of headrest

5.10.1. It is possible to adjust the height of headrest. Firstly, unscrew knob situated at the back of backrest. Secondly, adjust headrest at your discretion and tighten knob once again.

Knob is situated below handle which is designed for adjustment of backrest's tilt angle.



fig.25



fig.26





## 5.11. Drive system

5.11.1. There are two possible positions of damper control. First adjustment, 'Control', is especially beneficial while driving on uneven ground. Second adjustment, 'Sport', is useful while driving on even ground.

Adjustment is possible with the aid of lever (fig.27) situated below shock absorber spring.



## 5.12. Abduction block

5.12.1. So as to dismantle abduction block, unscrew knob situated under seat and then remove abduction block from seat (fig.28).



## 5.13. Adjustment of handle

5.13.1. It is necessary to press simultaneously buttons (fig.29) situated on both sides of handle so as to adjust tilt angle of handle. Handle is blocked at chosen position when buttons are released.





## 5.14. Wheels

5.14.1. Stroller is equipped with swivel front heels with lock. In order to block swivel front wheels with lock it is essential to turn knob situated above wheels clockwise (fig.30).



5.14.2. Turn knob anticlockwise in order to release swivel front wheels with lock (fig.31).



5.14.3. So as to dismantle front wheels it is necessary to press buttons (fig.32) situated above wheels. Press them when stroller is raised and front wheels do not touch the floor.



5.14.4. Front wheels can be mounted by pushing wheels into proper places.



**CAUTION!** Maximum air pressure is 1 Bar!

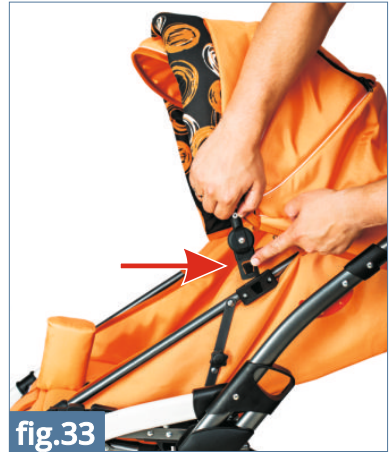




## 5.15. Canopy

5.15.1. It is possible to dismantle canopy. Press buttons (fig.33) situated at lower part of canopy's construction (they are placed on both sides of stroller) and then pull canopy out from catches. So as to mount canopy it is necessary to insert buttons into proper places for fastening.

5.15.2. If there is a necessity to adjust canopy, pull canopy in correct direction till it is blocked at chosen position.



## 5.16. Side pelottes

5.16.1. Side pelottes are mounted by means of Velcro tapes. This solution is advantageous because it also gives possibility to adjust their position (fig.34).





## 5.17. Upholstery

5.17.1. Cover, which protects against weather conditions, is fastened only when rail is dismantled (5.8.2.). So as to fasten cover it is important to follow these steps:

- put lower part of cover on footer (fig.35),
- join fasteners from upper part of cover with fasteners from stroller's canopy .



## 5.18. Window

5.18.1. Window, which is placed in canopy, makes it possible for care person to observe child. Undo zip on both sides (fig.36) and block flap by means of fastener (fig.37) so as to open the window. Furthermore, it is beneficial to have this window open because of fresh air.





## 6 ADDITIONAL EQUIPMENT

### 6.1. **REF HPO\_422** Carrycot

Carrycot can be unfolded. In order to do that:  
**STEP 1.** Unfold stiffening wire (3) and block them under plates (4) situated on the bottom of carrycot (fig.38).

**STEP 2.** Next, mount internal padding with the aid of Velcro tapes and then put pillow in (fig.39).

**STEP 3.** Carrycot is equipped with cover which protects against weather conditions. It can be mounted with the aid of snaps (1) situated on both sides of cover. Remember that snaps should be fastened into internal part of carrycot's canopy (fig.40).

**STEP 4.** Carrycot is mounted in the same way as seat (5.1.3, page 12)(fig.41).



fig.38



fig.39



fig.41



fig.40



## 6.2 REF HPO\_007 Infant car seat

6.2.1. Remember to mount special adapters (1) (fig.42) on stroller's frame before seat assembly. Adapters should be mounted on both sides of infant car seat.

6.2.2. Pull lever (2) situated on the side of infant car seat when there is a necessity to dismantle adapter (fig.43).

6.2.3. Infant car seat is either mounted or dismantled in the same way as seat assembly (5.1.3) (fig.44).



fig.42



fig.43



fig.44

## 6.3 REF HPO\_414 Tray

6.3. Table is mounted in the same way as rail (5.8) (fig.45).



fig.45







## 6.4. **REF HPO\_410** Headrest cover

Headrest cover helps to keep the headrest clean. It is made of soft material, easy to assemble by use of elastic band.



## 6.5. **REF HPO\_402** Umbrella

It protects the child from the sunlight. To attach it, loose the clamp and place it on the stroller's frame, then set desired position and tighten by use of the knob.



## 6.6. **REF HPO\_411** Cup holder

To attach the cup holder, loose the clamp and place it on the push handle, then set desired position and tighten the knob. You can adjust the cup holder's setting with the aid of the button.





## 7 THE USE OF STROLLER

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**CAUTION!** HIPPO+™ 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 HIPPO+™ stroller!

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### 7.1. 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;
- 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, orthosis, 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!

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## 7.2. How to use 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 in 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 wheelchair 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.



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**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!

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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.

## 8 SAFETY RULES



**CAUTION!** HIPPO+<sup>TM</sup> 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 wheelchair 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 than 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, stroller 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.





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**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 losing warranty.

**CAUTION!** The weight of user should not be bigger than maximal weight described on page 10 where you will find information regarding this issue.

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- 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.
- 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 customer service (ph. 17/864 04 70)



## 9 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:

1. 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 stroller 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 stroller 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.





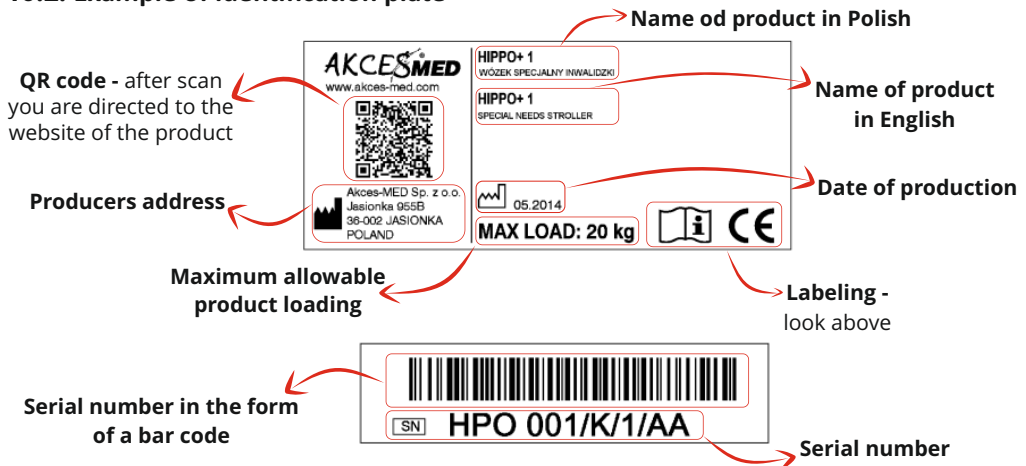


## 10 LABELLING

### 10.1. Symbols

	Declaration that the product meets the essential requirements		Protect from sunlight
	Catalog number		Storage temperature limitation
	Serial number		Relative humidity storage
	Please read the manual instructions before use		Dry vertically
	Attention!		Do not chlorinate
	Producer		Do not iron
	Production date		Do not dry in a drum dryer
	The product does not contain		Do not bleach
	Store in a dry place		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

### 10.2. Example of identification plate









**ORTHOPAEDIC DEVICES MANUFACTURER**



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