



SPECIAL NEEDS STROLLER
RACER[®]



USER MANUAL





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!

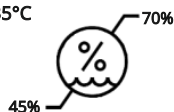
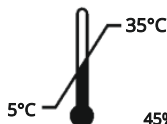
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Product marked with the CE sign is Class I medical device, of rule 1, consistent with the requirements of Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices.



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

RACER® stroller was created with the aim to help patients with illnesses which make independent sitting and standing difficult or impossible. (It refers to triplegia, paresis and serious paraplegia)

Taking sitting position by a child who is disabled from birth is highly important stage of complex rehabilitation process. Sitting position precedes taking an upright position. What is more, it has a significant influence on psychomotor development of the child. The fact that the patient can be safely transported is beneficial not only for patients but also for his/her care person. Proper use of safety wedges, belts and pelottes makes it possible to have correct upright standing, even in case of patients with flaccid paralysis. It prevents contractures as well as further deformations. Regarding stroller, it is designed to be used indoors and outdoors.

Remember to read this user manual carefully. You will find not only useful information but also guidelines regarding safe and effective use of the product.

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

Medical consultant: mobile +48 516 183 883

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 device.





1 THE PURPOSE OF USER MANUAL



The instruction manual contains basic information necessary to properly prepare the stroller before use, use the stroller, maintain and clean the stroller

This user manual should be kept in an easily accessible place. The manual is intended for people who look after disabled users, as well as for doctors and physiotherapists handling the stroller. Before using the stroller for the first time, the user (or caregiver) is obliged to familiarize himself/herself with the user manual.

2 INDICATIONS AND CONTRINDICATIONS FOR USE

These medical devices are intended for people with orthopedic, neurological and cardiological diseases and for people after surgery, with musculoskeletal dysfunctions, who have not acquired the ability to sit independently or who have difficulties in adopting and maintaining the sitting position.

Both for flaccid people with reduced muscle tone and for people with spasticity. The device can also be really useful for people who require long-term relief of one or both lower limbs. It is an irreplaceable aid in the rehabilitation process, both in terms of movement and social integration. The device is great help during everyday activities such as rehabilitation but also during playing, studying or having meals. The selection of the appropriate size of the device depends on medical indications and anatomical parameters, regardless of the age of the user.

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.

Contraindications for sitting

- Critical condition of the user;
- Paralysis;
- Deep sedation;
- Unstable fractures with specific orthopedic recommendations, including spine fractures;
- Untreated deep vein thrombosis;
- Hemodynamic instability;
- Identified brain dysfunction when sitting upright;
- Severe arthritis of the cervical spine;
- Pulmonary embolism;
- Recent myocardial infarction in the last 24 hours;
- Fresh postoperative wounds or non-healing wounds in the back area, pelvic girdle area, hip joints and thighs;
- Users with mental disorders should not be left in the device without the supervision of a caregiver.





3 GENERAL CHARACTERISTICS OF STROLLER

3.1 Standard equipment

- | | |
|---|---|
| 1. Adjustable and ergonomically shaped handle | 8. Abduction block |
| 2. Backrest | 9. Footrest with stabilizing belts |
| 3. Seat pillow | 10. Cover for folding mechanism |
| 4. Headrest | 11. Calf side supporting pannels |
| 5. 4 points vest or pelvic belt | 12. Pump |
| 6. Side pelottes | 13. Pumped wheels |
| 7. Safety rail | 14. Waterproof upholstery HYDRO™ /
Breathable upholstery ATMO™ |
| | 15. Under seat storage basket |





3.2. Additional equipment

 <p>RCR_001</p> <p>LED Lights (2 pcs.)</p>	 <p>RCR_002</p> <p>Aid for moving patients AM-P</p>	 <p>RCR_004</p> <p>Low head supporting pannels</p>
 <p>RCR_005</p> <p>High head supporting pannels</p>	 <p>RCR_006</p> <p>Folding canopy with side covers</p>	 <p>RCR_101</p> <p>Thigh abduction belts</p>
 <p>RCR_107</p> <p>Pelvic belt</p>	 <p>RCR_114</p> <p>H Harness</p>	 <p>RCR_115</p> <p>Calf belt</p>
 <p>RCR_124</p> <p>Loins support</p>	 <p>RCR_125</p> <p>6 points harness</p>	 <p>RCR_126</p> <p>Trunk belt</p>





RCR_134

Narrowing pads 6 cm



RCR_137

Narrowing pads 10 cm



RCR_147

5 points feet stabilizing belts



RCR_134

Foot and ankle stabilizing sandals



RCR_162

Dynamic ankle stabilizers (FP-22)



RCR_309

Seat cushion Bodymap A-



RCR_313

Back cushion Bodymap B



RCR_321

Back cushion Bodymap B+



RCR_321

Headrest Bodymap D

RCR_310
RCR_314
RCR_318
RCR_322

Frotte Cover

RCR_311
RCR_315
RCR_319
RCR_323

VisMemo Cover

RCR_312
RCR_316
RCR_320

Aerating-massaging pad

RCR_350
RCE_351
RCR_352
RCR_353

3D MESH Cover

RCR_343
RCE_344
RCR_345
RCR_346

Elastic cover



RCR_328

Lower limb stabilizer





RCR_402



Umbrella



RCR_403



Tray



RCR_404



Canopy with cover



RCR_405



Canopy



RCR_408



Rain cover



RCR_409



Mosquito net



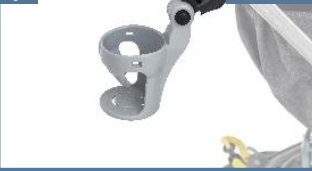
RCR_410



Cover for headrest



RCR_411



Cup holder



RCR_412



Elastico cusion seat



RCR_413



Elastico cusion backrest



RCR_415



Cover for wheel (4 pcs)



RCR_416



Summer footmuff



RCR_417



Winter footmuff



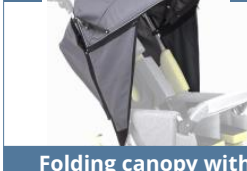
RCR_418



Hood for winter footmuff



RCR_420



Folding canopy with side covers





RCR_429



Miękka osłona na podnózek



RCR_447



Miękka osłona na podnózek



RCR_448



Miękka osłona na podnózek



RCR_452



Uchwyt na telefon



RCR_501



Bag



RCR_506



Carrier bag for the stroller



RCR_507



Oxygen tank holder



RCR_509

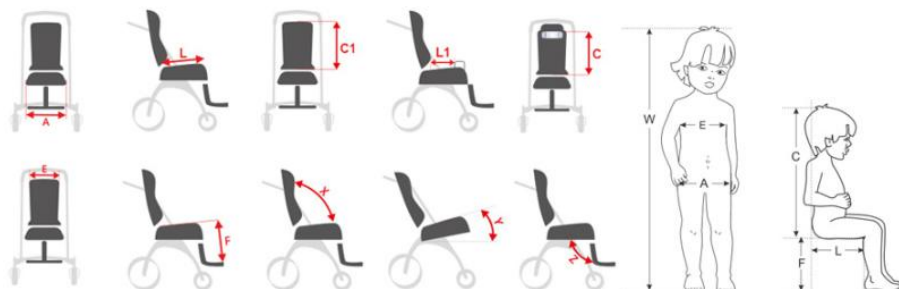


Organizer





4 SIZE TABLE



Symbol	Measurement	Unit	Size 1	Size 2	Size 3	Size 4
A	Seat width	[cm]	33	36	39	45
L	Seat depth	[cm]	33	43	47	47
L ₁	Seat depth to the abduction block	[cm]	15-18	23-26	28-32	28-32
C	Backrest height (with headrest)	[cm]	50-62	60-72	66-84	66-84
C ₁	Backrest height (without headrest)	[cm]	62	72	84	84
E	Backrest width	[cm]	30	32	36	41
F	Footrests length	[cm]	30-33	31-36	37-45	37-45
	Footer length	[cm]	20	20	22	22
	Push handle height	[cm]	106	106	106	106
Y	Seat tilt angle**	[°]	20	20	20	20
X	Backrest tilt angle	[°]	90-140	90-135	90-140	90-140
Z	Footplate tilt angle	[°]	100-120	100-125	100-120	100-120
	Max. user weight	[kg]	35	50	75	90
	Indicative user height*	[cm]	< 120	< 150	< 180	< 180

Product dimensions & weight			Size 1	Size 2	Size 3	Size 4
Width	[cm]	61	64	67	73	
Length	[cm]	107	128	145	145	
Height	[cm]	106	106	106	106	
Width after folding	[cm]	61	64	67	73	
Length after folding	[cm]	105	113	125	125	
Height after folding	[cm]	50	52	58	58	
Weight***	[kg]	24	26,2	29,4	30,2	

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

*Height cannot be main factor for selection of product size.

**Value measured with the seat loaded.

***The given weight includes a frame with wheels and upholstery. The weight may vary depending on the additional accessories the stroller can be equipped with.





5 DESCRIPTION HOW TO ASSEMBLE STROLLER

Remember that stroller needs to be assembled. Manufacturer cannot assemble this stroller due to transportation issues. We will give you stroller which needs to be mounted.

In order to use the stroller please follow these steps:

STEP 1. Unfold stroller (look point 6.1, page 13);

STEP 2. Place side pelottes (look point 6.9, page 19), seat pillow, covers for folding mechanism (look point 6.15, page 21).

6 DETAILED DESCRIPTION HOW TO USE STROLLER

6.1. How to unfold stroller

Follow these steps so as to unfold stroller:

STEP 1. Release clip that regulates backrest's tilt angle (fig.1), pull backrest as backwards as possible (fig.2) and then block it with the aid of clip.



fig.1



fig.2





STEP 2. Pull handle backwards until elements of folding mechanism are slammed (fig.3). It is highly important to make sure that safety rail is lifted before folding mechanism is slammed. Next, move safety rail down (fig.4) once folding mechanism is slammed.



fig.3



fig.4

STEP 3. Mount safety rail : place it on stroller frame and block it by pressing simultaneously buttons that are situated on both sides of rail (fig.5);



fig.5





6.2. How to fold stroller

Please follow these steps so as to fold the stroller:

STEP 1. Dismantle safety rail by releasing buttons that are situated on both sides of rail. Next, pull out rail from stroller frame (fig.6);

STEP 2. Lift covers for folding mechanism and then pull elements of folding mechanism (fig.7);

STEP 3. Lift safety rail and push simultaneously stroller handle (fig.8,9))



fig.6



fig.7



fig.8



fig.9



STEP 4. Release clip from backrest's tilt angle (fig.10) and push backrest as forwards as possible (fig.11)



6.3. The adjustment of footplate length

Please follow these steps so as to adjust footplate length:

STEP 1. Remove quick couplings situated on both sides of footplate (fig.12);

STEP 2. Adjust the height of footplate at your discretion (fig.13)

STEP 3. Insert quick coupling into holes.





6.4. The adjustment of tilt angle

Please follow these steps so as to adjust backrest's tilt angle:

STEP 1. Loosen clip from the adjustment for backrest tilt angle (fig.14);

STEP 2. Hold backrest and adjust it at your discretion;

STEP 3. Block clip.

Attention! In the extreme positions of the handle (reference size 1 and 2) collision with the back may occur when changing its angle. In such cases, the handle should be raised while it is being adjusted.



fig.14



fig.15

6.5. The adjustment of footplate tilt angle

Lift slightly footplate so as to release footplate support from catches. Adjust tilt angle at your discretion and block footplate support in suitable catches (fig.15)

6.6. Feet stabilizing belts

Feet stabilizing belts are equipped with Velcro tapes (fig.16).



fig.16

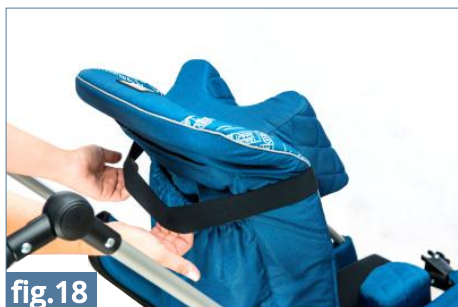
6.7. Headrest

Headrest is equipped with special elastic belt which is fastened behind stroller's backrest (fig.18, fig. 19). It is possible to adjust headrest according to patient's ne.



fig.17





6.8. Vest

Connect clamps from vest with clamps from adjustable belts that are fastened both at the bottom and top of backrest (4 pcs.) (fig.20). Next, adjust vest to patient's body with the aid of belts.

It is highly important to adjust properly vest due to the fact that it protects the patient from falling out of the stroller and, moreover, patient can move without freely.



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 46 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life.



CAUTION! Each time before using the vesty check whether:

- The buckles do not unclip under the pressing force;
- The buckles and belts do not move as a result of incorrect fastening.





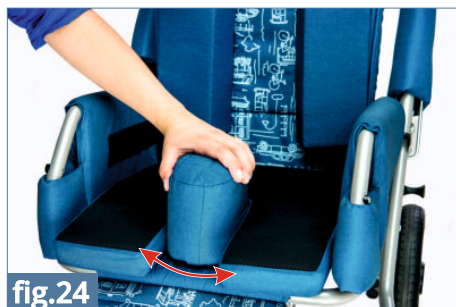
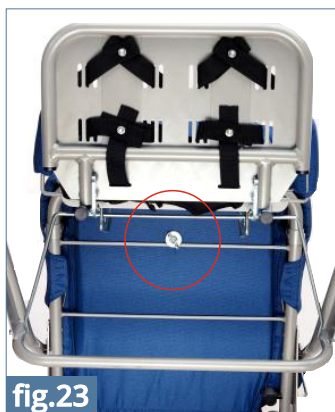
6.9. Side pelottes

Side pelottes (2 pcs.) are fastened to backrest with the aid of Velcro tapes. It is possible to adjust side pelottes (fig.22).



6.10. Abduction block

It is possible to adjust abduction block: loosen knobs situated under the seat (fig. 23), place abduction block either along or across seat and tighten knob (fig.24).



6.11. Wheel

RACER stroller is equipped with pumped wheels. We can deliver back PU wheels if necessary. It is possible to dismantle back wheels for transportation. In order to do that it is essential to unscrew nuts and take out wheels from axle . Remember to maintain proper air pressure which is 230 KPa (0,23 Mpa).





CAUTION! Remember to comply with the guidelines concerning air pressure. If air pressure is not proper, it results in damages or even accident.



CAUTION! Do not lubricate the wheel bearings.

6.12. Hand brake

Stroller is equipped with two independent brakes for rear wheels

Press brake's lever (fig.25) so as to block rear wheels. Raise lever in order to unblock wheels.



fig.25

6.13. Safety rail

Chapters 'How to fold stroller' and 'How to unfold stroller' describe both assembly and disassembly of safety rail (→**point 6.1, STEP 3, page 14; point 6.2, STEP 1, page 15**).



fig.26





6.14. Adjustable handle

Handle can regulated by pressing the buttons situated on both sides of handle (fig.27). Release these buttons so as to block handle at chosen height.



fig.27

6.15. Covers for folding mechanism

Covers should be fastened with the aid of zipper situated on stroller frame. Next, put covers on folding mechanism so as to cover it (fig.29,30).



fig.28



fig.29



fig.30





7 ASSEMBLY OF ADDITIONAL EQUIPMENT

7.1. REF RCR_101 Thigh abduction belts

Follow these steps in order to mount thigh abduction belts:

STEP 1. Place belts on seat and insert fastening belts into hole which is situated on the corner of seat (fig.31).

STEP 2. Reeve fastening belts around backrest's side tubes and insert belts into hole at the side of seat (fig.32).

STEP 3. Interlace fastening belt through regulator which is situated on the belt (fig.33).

STEP 4. Interlace fastening belt through snap fastener (fig.34).



fig.31



fig.32



fig.33

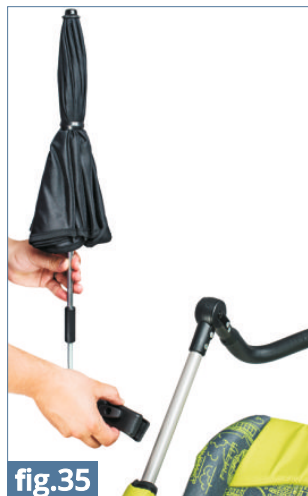


fig.34





7.2. **REF** RCR_402 Sun umbrella

**fig.35**

In order to mount sunshade it is necessary to loosen clip and place it on handle's frame (fig.35). Next, adjust its position at your discretion and unscrew knob (fig.36). If handle panels are applied, it is possible to fasten sunshade in any place on stroller's frame.

**fig.36**

7.3. **REF** RCR_403 Tray

In order to mount table it is necessary to:

STEP 1. Dismantle safety rail (→ **point 6.2, STEP 1, page 14**);

STEP 2. Press simultaneously locks which are placed on the exterior side of table's grip and then insert table into place where safety rail was placed (fig.37).

**fig.37****fig.39**



7.4. **REF RCR_405** Canopy

In order to mount canopy it is necessary to:

STEP 1. Press catches which are situated on both sides of canopy and then place canopy's catches on stroller's side frame (fig.39);

STEP 2. Unfold canopy (fig.40);

STEP 3. Lock stretchers which are situated on both sides of canopy (fig.41).



fig.39



fig.40



fig.41

7.5. **REF RCR_404** Canopy with cover

Mount canopy in accordance with rules described in 8.4 point and only then cover can be mounted. Next, front side of cover should be fastened at the front of canopy with the aid of zip (fig.42, fig.43).



fig.42



fig.43





Back side of cover should be fastened to the back of canopy. Next, fasten back side of cover to the side of cover (fig.44, fig.45).



7.6. REF RCR_501 Bag

Bag is out on stroller's handle with the aid of tapes with clasps (fig.46).



7.7. REF RCR_107 Pelvic belt

Pelvic belt is used instead of vest. It is fastened with the aid of belts which are placed at the bottom of stroller's support.





7.9. **REF RCR_410** Cover for headrest

Cover is made of cotton and it should be put on headrest (fig.51). Regarding material, it has some bands thanks to which material does not slip down.



7.10. **REF RCR_411** Cup holder

In order to mount cup holder it is necessary to follow these steps:

STEP 1. Loosen clip and place cup holder on stroller's frame (fig.52);

STEP 2. Adjust position of cup holder and tighten knob (fig.53);

STEP 3. You can adjust cup holder with the aid of button. (fig.54)





fig.52



fig.53



fig.54



fig.55

Cup holder is perfect for small and handy bottles with water (fig.56).



fig.56

7.11. **REF RCR_412** **Elastico cushion seat,**

ELASTICO anti bed sore cushion is made of thermo-active foam. Moreover, it is placed in cover which is made of airy material, namely ACTIV Space. Cushion should be put on stroller's seat in a place that is created for cushion from standard equipment.



fig.57





7.12 REF RCR_417 Winter footmuff

In order to mount winter footmuff it is necessary to:

STEP 1. Place winter footmuff on lower part of footrest plate and the fasten it with the aid of Velcro tapes (fig.58,59).



fig.59

STEP 2. Place upper part of footmuff behind stroller's backrest (fig.60).

STEP 3. Footmuff is equipped with special hole for abduction block and for belts with buckles. It is important to fasten vest to these belts (fig. 61,62).



fig.58



fig.60



fig.61

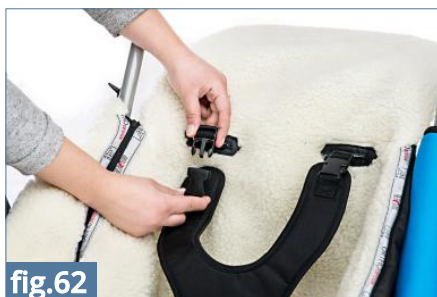


fig.62





STEP 4. Footmuff is equipped with fasteners with Velcro tapes. These Velcro tapes should be fastened on stroller's frame in a place that is created for rail. (fig.63)



STEP 5. Upper part of footmuff should be secured by means of fastener (fig.65)

7.13 REF RCR_418 Hood for winter footmuff

In order to mount hood for winter footmuff it is necessary to:

STEP 1. Fasten winter footmuff (look point 7.12, Step 1-5, page 28-29).

STEP 2. Put hood on stroller's frame and then take out belts with buckles through two holes in hood. Next, fasten vest (fig. 65,66)





7.14 **REF** RCR_004 **Low side cover for head**

In order to put low side cover for head on stroller it is necessary to place it on frame so as that middle part of cover is situated behind backrest and its endings with Velcro tapes cover side frame (fig.70).

**fig.70**

7.15 **REF** RCR_005 **High side cover for head**

In order to put high side cover for head it is necessary to place it on frame so as that middle part of cover is situated behind backrest and its endings with Velcro tapes cover side frame as well as adjustable stroller handle (fig.71).

**fig.71**

7.16 **REF** RCR_124 **Loins support**

In order to mount the loins support, you should fasten the Velcro straps at the desired height of the backrest. (fig.72).

**fig.72****fig.73**



7.17 REF RCR_420 Canopy with side covers

In order to mount canopy with side covers it is necessary to follow these steps:

STEP 1. Place its catches on side frame and then press them (fig.72);

STEP 2. Unfold canopy and simultaneously block stretchers which are situated on both sides of canopy (fig.73);

STEP 3. Side covers should be fastened to canopy with the aid of zipper and



fig.74



fig.75



fig.76



fig.77





7.18 **REF** RCR_126 **Trunk belt**

Trunk belt (fig.76) is assembled with the aid of Velcro tapes situated behind stroller (fig.77, 78). Trunk belt can be used only when patient is wearing vest!

**fig.80****fig.78****fig.79**

7.19 **REF** RCR_137 **Narrowing pads 10 cm**

Narrowing pads 10 cm (fig.81) are really beneficial because they make it possible to adjust the width of seat to patient's measurements. Use Velcro tapes situated on stroller's upholstery so as to assemble them on seat. (fig.82).

**fig.81****fig.82**



7.20 **REF RCR_134** Narrowing pads 6 cm

Narrowing pads 6 cm (fig. 83) are really beneficial because they make it possible to adjust the width of seat to patient's measurements. Use Velcro tapes situated on stroller's upholstery so as to assemble them on seat (fig. 84).

**fig.83****fig.84**



7.21 REF RCR_115 Calf belt

Calf belt is assembled on footplate

Please follow these steps so as to assemble belt:

STEP 1. Remove side calf covers which are added to stroller's standard equipment and lay calf belt covers there. Make sure that wider part of cover is placed towards the inside of stroller (fig. 88, fig. 89);



fig.88



fig.89

STEP 2. Thread calf belt through the frames of covers in a way that belt's fastening is placed towards the inside of stroller (fig.90, fig.91)



fig.90



fig.91





STEP 3. Fasten belt with the aid of Velcro tapes: thread belt through one of two fasteners from calf belt (fig.94). You can choose either first (fig.92) or second fastener (fig.93) - it depends which adjustment is the most comfortable. This activity should be repeated for the second side.



fig.92



fig.93



fig.94

7.22 REF RCR_114 H harens



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 45 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life.

Please look at point 7.8 so as to find out how to assembly vest (**look point 6.8**). Initially, patient should not adjust vest tightly. Once vest is put on, it should be fastened with the aid of belts with plastic straps. Vest can be quickly unfastened (fig.95).





fig.95



fig.96

7.23 **REF** RCR_125 6 points harness



CAUTION! Before using the vest, it is essential to familiarize yourself with the safety rules contained in the instruction. Information on how to safely use the VEST can be found on the page 45 of the instruction. Improper use and not obeying the safety rules may endanger the user's health and life.

In order to mount 6 points vest it is necessary to:

STEP 1. 6 points vest should be put on and then it is important to fasten zipper and buckle at the front of vest (fig.98-101);



fig.97

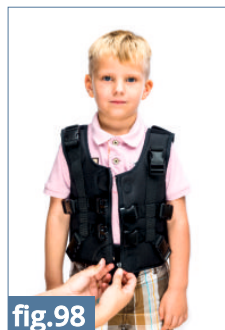


fig.98



fig.99



fig.100



fig.101





STEP 2. Adjust vest with the aid of Velcro tapes situated at the back of vest (fig.102, 103).

STEP 3. Fasten vest to stroller's frame by means of four buckles. It should be fastened in a place that is created for standard vest (fig.104). So as to fasten it, use not only buckles but also fastening belt that should be threaded behind stroller's backrest and fastened at the front of vest (fig.105)



fig.102



fig.103



fig.104



fig.105





7.24 REF RCR_507 Oxygen tank holder

In order to mount oxygen tank holder it is necessary to:

STEP 1. Take out two belts from buckles that are situated at cover.

STEP 2. Take out adjuster no.2 and buckle from belt. It is important to leave adjuster no.1 on the belt (fig 109,110)



fig.110



fig.109



fig.111

STEP 3. Thread one of the belts through stroller's handle (fig.111) and then thread the end of belt through adjuster no. 1.

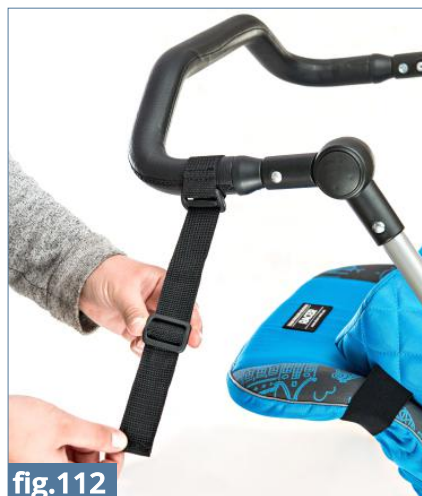


fig.112

STEP 4. Thread belt through adjuster no.2 (fig.112).





STEP 5. Put buckle on belt and thread belt through buckle as it is presented in the picture below (fig.113, 114). The end of belt should be inserted into adjuster no. 2.



fig.113



fig.114

STEP 6. Second belt should be fastened on stroller's side frame as it is described in stages 2-5. The picture below shows how belts should be fastened (fig.115).



fig.115

STEP 7. It is possible to fasten cover with oxygen tank holder (fig.116,117). The length of belts can be adjusted if necessary.



fig.116



fig.117





7.25 **REF RCR_408** Rain cover

Rain cover can be put on stroller only if canopy is mounted (it concerns folding canopy with covers **RCR_404**, Foldin canopy **RCR_405** or Folding canopy with side covers **RCR_420**).

Follow these steps so as to mount rain cover:

STEP 1. Holes in cover should overlay with handle (fig.119, 120) and stretch cover so that it covers canopy and stroller.



fig.118



fig.119



fig.120

STEP 2. Mount cover on stroller's frame (fig.121)

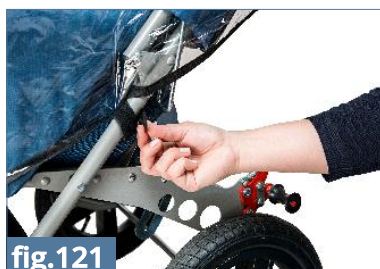


fig.121





7.26 REF RCR_006 Side panels

Please follow these steps so as to mount side panels on the stroller:

STEP 1. Fix pannels to stroller's frame in appropriate places.

Pannels should be fixed on stroller's frame in three places (fig.122):

- 1) in upper part of the stroller, next to handle for pushing,
- 2) under folding mechanism,
- 3) next to safety rail.

As far as points 1 and 3 are concerned, side pannels are mounted on rail with the aid of belts with fasteners (fig. 123-126).



fig.122



fig.123



fig.124



fig.125



fig.126

Regarding point 2, pannels are mounted on rail by means of belt with Velcro tape (fig.127).



fig.127





7.27 **REF RCR_413** Elastico backrest cushion

In order to attach the Elastico backrest cushion to the stroller backrest it is necessary to follow these steps:

STEP 1. Detach the standard 4 point vest.

STEP 2. Attach the cushion to the backrest by use of Velcro straps.

NOTE! The cushion should be attached in such a way that rounded part of the cushion acts as a lower back support! (fig.129).



fig.128



fig.129

STEP3. Fasten the standard 4 point vest (fig.130, 131).

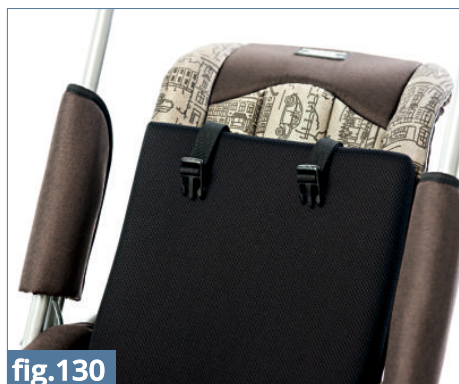


fig.130

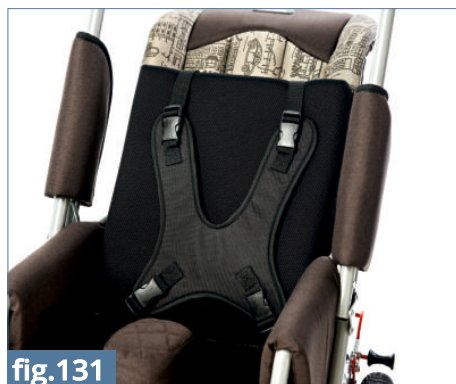


fig.131





8 THE USE OF STROLLER



CAUTION! RACER® 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 **RACER®** stroller!

8.1. 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!





8.2. 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 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.





8.3 How to use vest



The vest provides posture support for wheelchair users as well as patients sitting in positioning chairs or other rehabilitation seats. When properly used, the vest allows the patient to adopt the correct sitting position for a longer period of time. The design and shape of the vest make it possible for the patient to be free to move their upper limbs within the constraints of the patient. **If the vest is not used properly, it can pose a serious threat to the health and life of the patient!**

Possible threats incident to the use of the vest:

- 1) If the lower vest straps are fastened too loosely, there is a risk that the vest will move upwards to the patient's neck, making it difficult to breathe – always check the tension of the straps and set them in such a way that the lower edge of the vest is located near the lower abdomen of the patient.
- 2) In a situation when the patient slips off the seat, the upper edge of the vest covers the patient's neck and blocks the trachea, making it difficult to breathe – it is therefore necessary to ALWAYS use the accessories stabilizing the patient's pelvis, such as a pelvic belt, thigh abduction belts or an abduction block.
- 3) There is a risk that the upper straps of the vest will press the patient's neck, blocking the trachea and making it difficult to breathe. This might happen if the patient's body is improperly secured in the seat or stroller – it is then necessary to use the optional accessories of these devices and stabilize the patient's body using the lateral supports. If there is no possibility to use such accessories with the device and the patient's body cannot be properly stabilized, the device should be replaced with the one having such an option.
- 4) The vest is fastened too tightly to the backrest and as a result the patient cannot breathe easily – in this case the vest should be loosened in such a way that it is possible for the caregiver to insert a straightened hand between the vest and the patient's body. If, however, we want to stabilize the patient's body properly, we should use a dynamic orthopedic vest, e.g. a Flex-point vest, which does not cause the breathing difficulty for the patient.





Instructions for the proper use of the vest:

- 1) Make sure that the patient is sitting in the best possible position:
 - in the middle of the seat,
 - deeply in the seat in such a way that the patient's lumbar spine rests against the backrest.
- 2) Secure the patient's pelvis with, for example, a pelvic belt, thigh abduction belts or an abduction block.
- 3) Make sure that the side supports of the device, if used, are set in the correct position. It is required that the patients with the poor trunk control use the side supports. The side supports limit the lateral movements of the patient's body, which could lead to the compression of the vest straps on the neck of the patient.
- 4) Secure the vest:
 - fasten and adjust the lower straps of the vest, so that the lower edge of the vest is located near the lower abdomen of the patient,
 - fasten the horizontal strap of the vest (if present),
 - fasten the shoulder straps of the vest,
 - check if the buckles of the vest do not open under pressure.
- 5) Check the patient's position:
 - make sure that the vest cannot move by itself towards the patient's neck,
 - make sure that you can insert a straightened hand between the vest and the patient's body.

To prevent injuries and to minimize the risks associated with the use of the vest, the following rules should be followed:

- 1) The position of the vest **MUST** be checked each time after putting the patient in the seat.
- 2) Special attention should be paid to protecting the patient from falling forward, slipping off the seat or lifting the pelvis. The vest **MUST** be used with the accessories which will secure the patient's pelvis at all times (e.g. the pelvic belt, thigh abduction belts or the abduction block). The use of the vest cannot be considered separately but as a part of a general posture support system including supports such as pelvic belts, foot support, torso stabilization, thigh abduction belts, tilt-in-space position and reclining backrest.
- 3) Special attention should be paid to ensuring that the entire foot of the patient has stable support. If the device is not equipped with a foot support, the patient's feet must rest firmly against the ground.





- 4) It should be remembered that any change of the inclination angle of the backrest, seat, foot support or tilt-in-space function might affect the effectiveness of the belts and supports!
- 5) Special attention should be paid to the use of stabilization elements or side supports. If the patient has poor trunk control, the side supports will limit the lateral movements, which could lead to the compression of the vest straps on the neck of the patient.
- 6) The mounting of the vest and adjusting it to the patient can only be carried out by a suitably trained person, who is familiar with the instructions for the use of the vest and the rules of its safe use.
- 7) Do not make any repairs or modifications to the vest on your own. In order to repair or replace any part of the vest, please contact the manufacturer.
- 8) Do not use a damaged or incomplete vest, as this poses a serious threat to the health and life of the patient!
- 9) Do not leave the patient in the device unattended!
- 10) The correctness of the use of the vest should be particularly controlled in accordance with the recommendations in case of children, patients with impaired memory or mentally ill.
- 11) Make sure that all people taking care of the patient are familiar with the rules of the safe use of the vest.

How to care for the vest:

The vest works effectively only if kept clean and maintained in accordance with the manufacturer's instructions. Before each use of the vest, check whether:

- 1) The vest straps are not frayed or worn. If so, have them exchanged for new ones,
- 2) The vest straps are not attached to the wheels of the device,
- 3) The buckles are not damaged. If so, have them exchanged for new ones,
- 4) The Velcro fastening holds firmly. If not, remove any dirt or hair from the Velcro, or have it replaced with a new one,
- 5) There have been no changes in the patient's height or weight from the moment the vest was adjusted to the patient,
- 6) The shoulder straps of the vest are adjusted so that they are not too loose or too tight,
- 7) The vest should be cleaned regularly with the use of warm soapy water and dried out of the direct sunlight and other sources of heat. The vest must always be dry before usage.

If you have any doubts or questions about the use of the vest, please contact your doctor or physiotherapist.





9 SAFETY RULES



CAUTION! RACER® 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. 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.
12. Before using the stroller, remove all paper and plastic packaging. The packaging is not a toy! Keep away from children and animals



Incorrect product adjustment can lead to such side effects as fainting, body deformities, joint overload, etc. If the abovementioned symptoms occur, stop using the product immediately, take the user out of the product and lay them down. If the undesirable symptoms persist, contact a physician immediately. If the symptoms have disappeared, inform the attending physician about this fact in order to make a decision about the further rehabilitation process.

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

The product contains small parts which children may swallow.

Do not use a product that has any signs of damage, tearing or wear. Only an undamaged product and proper use guarantee its right and safe working. If the product is damaged, discontinue use and contact the manufacturer.





Under no circumstances should an unqualified person repair or alter the product and its construction, as the health and safety of the user depend on it as well as it will lead to the loss of warranty.

Remember that all the loads hung on the push handle may cause the stroller to lose its balance.

The weight of user should not be bigger than maximal weight described on page 12 where you will find information regarding this issue.

Serious incidents involving this device should be reported both to manufacturer and to the competent authority in your country.

10 TERMS OF WARRANTY

- 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. 17/864 04 70, e-mail: export@akces-med.com)





11 MAINTENANCE AND CLEANING

The stroller **RACER®**, which is a medical device, should always be kept clean and should be used in accordance with the manufacturer's instructions. The stroller should be kept in a clean, dry and ventilated room. Maintenance and cleaning must be done at least once a month. Periodic cleaning and maintenance of the chair is essential to keep its proper functioning and safety.

Recommendations for cleaning the upholstery and other elements of the stroller:

1. Wash with warm water using a soft cloth and mild cleaners.
2. Make sure the cloth is not too wet, as this may enlarge the stain and damage the upholstery or foam inside the upholstery.
3. Remember to remove excess moisture from the upholstery before the next cleaning.
4. After cleaning the stains, the upholstery should be rinsed with lukewarm water and dried with a clean cloth.
5. You must not soak the upholstery.
6. The upholstery must not get wet during cleaning.
7. Do not use hard brushes for cleaning the upholstery.
8. Do not clean the upholstery with strong chemicals, e.g. solvents or chlorine-based caustics.
9. Do not clean, replace any elements or maintain the chair during use.
10. Metal and plastic elements should be cleaned by hand with suitable cleaners, after having read the recommendations of the manufacturer of the given cleaner.
11. It is possible to disinfect metal, plastic, wooden and upholstery elements of the product with a generally available disinfectant. In order to disinfect the selected element, spray its surface with a disinfectant generally available on the market and wipe with a dry, clean cloth. After disinfection, wait until the element is completely dry, especially in the case of upholstery. Before using the disinfectant, first check in an invisible place whether the product will not discolor or damage the disinfected surface.





Remember that upholstery has to be always dry before using!



The manufacturer of the stroller, Akces-MED Sp. z o. o., is not responsible for any damages caused by using unsuitable cleaners.

Before using it is necessary to:

- clean wheels;
- check if base as well as wheels are correctly mounted; check if brake stops turning wheel;
- 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.



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

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





TECHNICAL INSPECTION

Technical inspections should be performed regularly. Before servicing, the product should be thoroughly cleaned to reveal any hidden damage.

Frequency	What should be checked? What should be done?		Remarks
Before each use.	General condition of the product.	Check: <ul style="list-style-type: none">the entire product for any visible damage, cracks or mechanical defects,,if the product complete,if all bolts, screws, knobs, nuts and other elements of the construction are complete and tightened..	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Wheels and brakes.	Check: <ul style="list-style-type: none">if the wheels are properly mounted and if they are not damaged,if the brake is blocking the spinning wheel,if the wheels are not dirty. If necessary, clean the wheels.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Fastening of the construction elements.	Check all the mechanisms of the product and its moving parts. Check in particular: <ul style="list-style-type: none">if the seat is properly mounted (if applicable),if the wheels are properly mounted (if applicable),if the elements securing the user are properly mounted and if they work well (if applicable),if all the moving parts are complete, work properly, do not jam,if the adjustment mechanisms of the following elements work properly (if applicable): headrest, backrest, seat, abduction block, armrests, footrests.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Upholstery elements.	Check: <ul style="list-style-type: none">if there is any damage, tears, rips, loose seams or deformations on the upholstery elements,if the stabilizing straps, vests or safety belts are not frayed or twisted and if the buckles work properly,if the stabilizing straps, vests or safety belts work correctly and do not unfasten under pressure or when pulled.	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
Once a week.	Product cleaning.	If the frame and upholstery get dirty (dusty, muddy, etc.) during everyday use, wipe them with a damp cloth without detergents. Remove dirt (e.g. hair, food remains, etc.) from the moving parts of the product.	The product should be cleaned when necessary, but at least once a week. Do not use any chlorine based cleaners or methylated spirit. Before using the product, check if the upholstery is dry.





Frequency	What should be checked? What should be done?		Remarks
Once a month.	Wheel axles, quick connectors (if applicable).	Check: <ul style="list-style-type: none"> if the wheels are rolling and if they are not loose. To maintain the wheels, apply a small amount of a preservative-lubricant between the axle and the wheel hub. Check if you can easily remove and attach the wheels. 	Clean the wheels when dirty. In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Product construction connectors (welding, threading, soldering)	Check: <ul style="list-style-type: none"> the condition of the product frame in the places of joining (welds, threads, soldering). 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Tires/innertubes (if applicable).	Check: <ul style="list-style-type: none"> tire wear condition. Check for visible damage. Check tire pressure (if applicable). 	If the tire pressure is too low, inflate them to the correct level. In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
Once every 6 months.	Construction moving parts.	Check: <ul style="list-style-type: none"> if the moving parts of the construction have not been damaged. Maintain them using a proper cleaning agent. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
	Product labeling.	Check: <ul style="list-style-type: none"> if the marking and labels are readable. 	In case of any damage or defects, discontinue the use of the product and contact your Supplier/Distributor or the Manufacturer.
After the life time of the product finishes.	Detailed product check.	Check the product.	The manufacturer specifies the life time of the product, which is given in the user manual. After the given period, the user may use the product only if it is sent back to the manufacturer to be checked first. After that, the manufacturer will re-define the life time of the product and the date of the next check.

The list of all spare parts is available for download after selecting a product on www.akces-med.com.



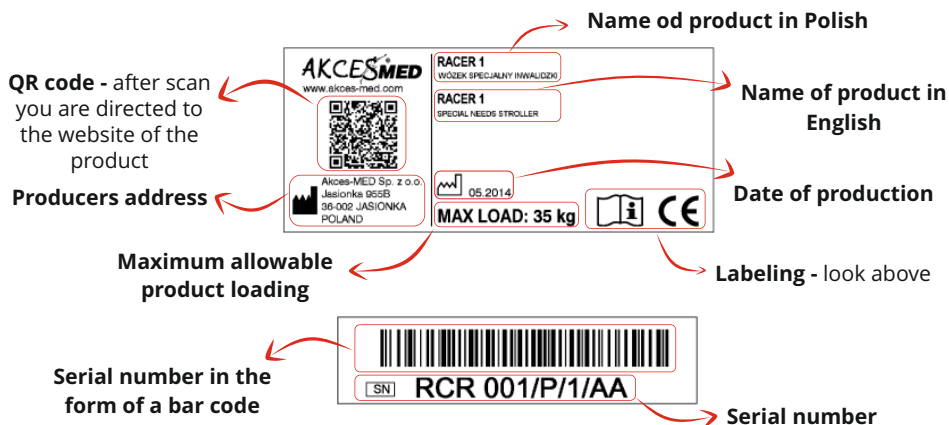


12 LABELLING

12.1. Symbols

	Declaration that the product meets the essential requirements		Do not chlorinate
	Catalog number		Do not iron
	Serial number		Do not dry in a drum dryer
	Please read the manual instructions before use		Do not bleach
	Attention!		Dry vertically
	The product does not contain latex.		Prohibition of use without fastened safety belts
	Store in a dry place		Prohibition to leave the patient without care during use of the product
	Careful! delicate content		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.
	Protect from sunlight		Manufacturer
	Storage temperature limitation		Production date
	Relative humidity storage		

11.2. Example of identification plate

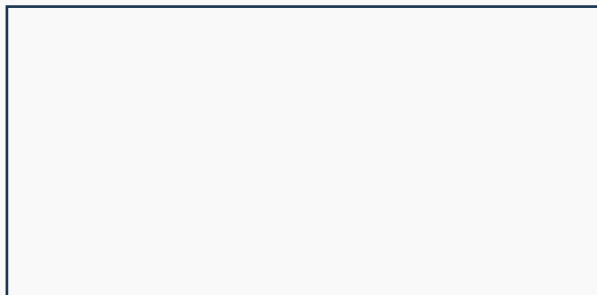


MANUFACTURER



Akces-MED Sp. z o.o.

Jasionka 955B
36-002 Jasionka
tel. (17) 864 04 70
e-mail: export@akces-med.com
BDO: 000031619



Authorised Dealer



akces-med.com

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