momo motion.

Instructions for use.

momo motion. The tried-and-tested tricycle with E-drive.

schuchmann®

Many thanks.

Dear Customer

At this point we would like to thank you for placing your trust in our company and for purchasing our product. We ask you to read through the Instructions for use carefully prior to initial commissioning of the product, and to observe them. Please note that guidelines and representations in these Instructions for use may deviate from your product due to differing equipment. We reserve the right to make technical modifications.

Important information!

Ensure that these Instructions for use remain with the product.

Your **schuchmann** Team

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Contents.

1. Preparation.

1.1 Delivery

On receiving the product, please check it for completeness, lack of faults and any transport damage. Check the goods in the presence of the delivering company. Should transport damage have occurred, please arrange for an inventory (determination of the faults) to be made in the presence of the forwarder. Please send a complaint in writing to the specialist dealer responsible.

1.2 Safety measures prior to use

Correct usage of the tricycle requires precise and careful training of the accompanying person. We ask you to read through the Instructions for use carefully prior to initial commissioning of the tricycle, and to observe them. Cushioned parts may become warm when exposed to direct sunlight. Cover these parts or protect the equipment from direct sunlight.

1.3 Safe disposal

In order to preserve and protect the environment, to prevent environmental pollution and to improve the recycling of raw materials, please note the disposal instructions in **points 1.3.1** and **1.3.2**.

1.3.1 Packaging

The product packaging should be stored in case the product needs to be transported again. Should you have to return the product for repairs or in case of a guarantee claim, please if possible use the original box so that the product is optimally packaged.
Separate the packaging materials for recycling according to their classification. Do not leave packaging materials unattended, as they are a possible source of danger.

1.3.2 Product

Separate the raw materials used in the product for recycling according to their classification (see material information under **Point 2.1**).

1.4 Where to store the Instructions for use

Please store these Instructions for use carefully and ensure that these Instructions for use remain with the product in case of re-use.

2. Product description.

2.1 General information

All base frames are made of aluminium, which is non-corroding and powder-coated. All other materials used are protected against corrosion through the use of stainless steel, aluminium or plastic. All important parts, such as the saddle, handlebars or also the pedals, can be individually adapted to the individual requirements. The special accessories allow children and teenagers to be positioned for example around the upper body or in the lower leg / foot area. The tricycles generally have a brake hub / backpedal hub brake on the rear wheel (except for those with a rigid sprocket) and an air pressure-independent parking brake on the front wheel.

2.2 Handling and transport

The **momo motion.** is not designed to be carried, as it is fitted with tyres. Should you have to carry the equipment due to obstacles, ensure that all moving parts are tightened. Then two people should position themselves next to the tricycle, grip it on the left and right of the frame and carry it to the required location. To transport the tricycle, reduce all adjustments to their most compact size (saddle height, handlebar height, remove accessories etc.).

2.3 Application areas, use according to the intended purpose

Indications

The **momo motion.** is suitable for children and adolescents with neuromuscular (neurological, orthopaedic and neurodegenerative) disorders (such as cerebral palsy and muscular dysplasia and atrophy, rheumatism) as well as cardiovascular diseases and chromosomal abnormalities associated with hypotension. Due to their motor limitations (reduced muscle strength and endurance, cardio-respiratory limitations, joint mobility limitations, etc.), these patients have limited use of foot pedal-operated tricycles.

The **momo motion.** is used to support physiotherapeutic treatment, the training of balance reactions and movement coordination (alternating leg movements, eye-hand coordination, training isolated arm and leg movements). The function of start-up assistance is particularly important.

It is also used for the specific development of muscle strength and endurance (with appropriate indication also for avoiding overloading of the muscles with simultaneous function preservation). The mobility of the joints is supported and the restrictions are counteracted by insufficient cardio-respiratory function of the patients. The function of residual power support is hereby emphasised.

2. Product description.

Contraindications
In general, the indications for riding a bicycle should be approved by a doctor or orthopedist. It should therefore be clarified prior to procurement whether contraindications exist for the patient. In general, any type of pain represents a contraindication.

For roadworthy tricycles, the following components are specified in accordance with the German Road Traffic Regulations:

- Two brakes functioning independently of one another
- A bicycle bell with a clear ring
- Headlamps, rear lamp with reflectors, large-area reflectors, pedal reflectors, 2 yellow spoke reflectors or white reflecting rings on each wheel, and front reflectors in the design tested for the construction type.
- A bicycle trailer may only be used on bicycles with a sturdy frame and fork construction. Also important are strong bicycle brakes at the front and rear. Users must remember that the riding characteristics of the loaded trailer change substantially in comparison to operation of the bicycle on its own.

2. Product description.

2.4 Use not in accordance with the intended purpose / warning guidelines

- Only ride if the bicycle is in proper condition!
- Correct usage of the product requires precise and careful training of the accompanying person.
- Replace bent handlebars and handlebar stems immediately!
- Continued use or repair means a risk of breakages.
- The vehicle may only be used on stable and flat ground.
- Please observe the "Technical data" in these instructions for use for the maximum permitted patient weight.
- Always wear light-coloured and distinctive clothing!
- Always be ready to brake, in particular in steep terrain and sections which are not easy to assess!
- Show consideration for other people who are walking or hiking!
- Do not hang loads on the handlebars; this compromises the travel safety.
- Test the fastenings for the pedal cranks, pedals and, if applicable, the wheels regularly
- For your own safety, we recommend that you always use your vehicle with a helmet. Please ensure in particular that the helmet is of good quality. It should accord at least with the legal regulations or recommendations (standard: EN 1078 or ANS)!
- Check that the brakes, lights and bell function properly prior to each journey!
- Secured screws must not be loosened, otherwise the guarantee is lost.
- Ensure that your vehicle accords with the legal requirements!
- Do not use headphones, for example, so that you can remain aware of warning sounds.
- If a push bar is mounted, this may only be used to guide the bicycle. The push bar is NOT suitable for moving, lifting or tilting the bicycle!
- In wet conditions, the braking distance of your bicycle will become longer. Therefore, always ensure that your speed remains such that you can stop at any time.
- The tricycles are not suitable for carrying a second person. The consequences arising from such a use shall not fall within the scope of responsibility of the manufacturer.
- The bicycle basket may only bear loads of up to 20 kg.
- When adjusting the tricycle there is the risk of trapping or crushing limbs.
- Users who have difficulty reading must have someone read these Instructions for use aloud so that they understand how to use the product.

2. Product description.

2.5 Equipment for basic model

- with Heinzmann Direct Power Motor (36V, 250W, impulse torque 60Nm)
- Aluminium frame with extra-low access point
- Rim brake with separate parking brake
- Angle adjustable handlebar stem
- Handlebar damper for stabilisation when moving straight on
- Lighting system according to StVZo, which is powered by the Li-ion high-power battery (11Ah)
- incl. mudguards and basket

2.6 Product overview

The Fig. below is intended to show you the designation of the most important components as well as the terms which you will find in these Instructions for use.

2. Product description.

2.7 Overview of equipment / accessories

DirectPower E-drive from Heinzmann

The new **momo motion.** is equipped with the DirectPower E-drive from Heinzmann. This allows us to offer you a wear-free and silent direct drive. The motor is designed to be brushless and without gears. This minimises maintenance and wear and eliminates motor noise. The recuperative system automatically recharges when driving downhill or braking. This means that the range can be increased by up to 15 %. The existing force of the user is measured by a force sensor integrated in the bottom bracket, and the assistance from the electric drive is adjusted.
Choose the suitable E-drive for the **momo motion.** from the following configurations. You can choose whether the drive should be equipped **with or without start-up assistance**. In addition, you can choose between a **beginner version** and an **advanced version**. The difference here is the **start-up** and the **top speed** of the various modes **Eco, Standard and Power**, which can be selected via the display. An analysis cable can be used to change the selected version at a later date.

DirectPower E-drive from Heinzmann – without start-up assistance

for size	Revision		Start-up handling / top speed		
			Eco	Standard	Power
16"	Beginner	(36 02 070)	gentle / 4 km/h	medium / 4 km/h	strong / 6 km/h
	Advanced	(36 02 071)	medium / 6 km/h	strong / 8 km/h	strong / 10 km/h
20"	Beginner	(36 03 070)	gentle / 4 km/h	medium / 4 km/h	strong / 6 km/h
	Advanced	(36 03 071)	medium / 6 km/h	strong / 8 km/h	strong / 12 km/h
24"	Beginner	(36 04 070)	gentle / 6 km/h	medium / 8 km/h	strong / 12 km/h
	Advanced	(36 04 071)	gentle / 10 km/h	medium / 15 km/h	strong / 20 km/h
26"	Beginner	(36 05 070)	gentle / 6 km/h	medium / 8 km/h	strong / 12 km/h
	Advanced	(36 05 071)	gentle / 10 km/h	medium / 15 km/h	strong / 20 km/h

DirectPower E-drive from Heinzmann – with start-up assistance

Select whether the start-up assistance should be activated by pressing the button (Fig. 1) or by twist handle (Fig. 2)


Fig. 1


Fig. 2

for size	Revision		Start-up assistance	Start-up handling / top speed		
				Eco	Standard	Power
16"	Beginner with twist handle	(36 02 072)	4 km/h	mild / 4 km/h	medium / 4 km/h	strong / 6 km/h
	Beginner with button	(36 02 073)				
	Advanced with twist handle	(36 02 074)	6 km/h	medium / 6 km/h	strong / 8 km/h	strong / 10 km/h
	Advanced with twist handle	(36 02 075)				
20"	Beginner with twist handle	(36 03 072)	4 km/h	mild / 4 km/h	medium / 4 km/h	strong / 6 km/h
	Beginner with button	(36 03 073)				
	Advanced with twist handle	(36 03 074)	6 km/h	medium / 6 km/h	strong / 8 km/h	strong / 12 km/h
	Advanced with twist handle	(36 03 075)				
24"	Beginner with twist handle	(36 04 072)	6 km/h	mild / 6 km/h	medium / 8 km/h	strong / 12 km/h
	Beginner with button	(36 04 073)				
	Advanced with twist handle	(36 04 074)	6 km/h	mild / 10 km/h	medium / 15 km/h	strong / 20 km/h
	Advanced with twist handle	(36 04 075)				
26"	Beginner with twist handle	(36 05 072)	6 km/h	mild / 6 km/h	medium / 8 km/h	strong / 12 km/h
	Beginner with button	(36 05 073)				
	Advanced with twist handle	(36 05 074)	6 km/h	mild / 10 km/h	medium / 15 km/h	strong / 20 km/h
	Advanced with twist handle	(36 05 075)				

2. Product description.

Saddle						
Art. No.		Saddle			Width	Length
3701001		Standard saddle Size 1			15 cm	21 cm
3702001		Standard saddle Size 2			15 cm	24 cm
3703001		Standard saddle Size 3			18 cm	26 cm
Art. No.		Saddle		Rear width	Front width	Length
3701024		Gel saddle Size 1		19 cm	4 cm	24 cm
3702024		Gel saddle Size 2		24 cm	7 cm	27 cm
Art. No.		Saddle	Rear width	Front width	Rear length	Length total
3701003		Saddle seat with ischium depressions Size 1	20.5 cm	4 cm	9.5 cm	14.5 cm
3702003		Saddle seat with ischium depressions Size 2	24 cm	4 cm	9.5 cm	14.5 cm
Art. No.		Saddle	Rear width	Width in centre	Front width	Length
3700010		Unicycle saddle – Banana-shaped (Step length increases by 2 cm)	11 cm	6 cm	8 cm	25 cm
Art. No.		Saddle	Rear width	Front width	Rear length	Length total
3700023		Moped saddle (Inside leg length increases by 2 cm)	26 cm	9.5 cm	12 cm	25 cm

Saddle posts		
Art. No.		Saddle post
3702004		Standard saddle post Size 2 for 16"
3703004		Standard saddle post Size 3 for 20" - 26"
Art. No.		T-saddle post
3702005		T-saddle post Size 1 for 12"
3703005		T-saddle post Size 3 for 24" + 26"

Holding bracket				
Art. No.		Holding bracket with mount	Max. height*	Depth
3701007		Holder bracket Size 1	20 cm	12 cm
3702007		Holder bracket Size 2	30 cm	12 cm
3703007		Holder bracket Size 3	37 cm	12 cm
3704007		Holder bracket Size 4	53 cm	12 cm
3709007		Holder bracket, customer-made	___ cm	___ cm
3702055		Universal bracket – for harnesses when not using pelotte pads (width = 27.5 cm)		

* Max. height: *Measured on a standard saddle up to the top edge of the back pelotte pad

2. Product description.

Headrest				
Art. No.		Headrest	Width	Height
3701029		Headrest Size 1	20 cm	15 cm
3702029		Headrest Size 2	23 cm	18 cm

Handlebars				
Art. No.		Classic handlebars – black		Width
3702011		Classic handlebars for 16"		50 cm
3703011		Classic handlebars for 20"		58 cm
3704011		Classic handlebars for 24"-26"		61 cm
Art. No.		Touring handlebars	Width	Depth
3701012		Touring handlebars Size 1	55 cm	17 cm
3702012		Touring handlebars Size 2	58 cm	17 cm
Art. No.		Round handlebars	Width	Depth
3701013		Round handlebars Size 1	40 cm	17 cm
3702013		Round handlebars Size 2	43 cm	25 cm
Art. No.		Multifunctional handlebars – suitable for 20" – 26"	Width	Depth
3702014		Multifunctional handlebars	61.5 cm	16.5 cm
Art. No.		Handlebar lock limiter – adjustable up to direction determination		
3703006		Handlebar lock limiter Size 2 for 16" - 26"		
Art. No.		Handlebar extension		Length
3702022		Handlebar extension Size 2 for 16" - 26"		10 cm

Foot pans									
Art. No.		Foot pans with leg guidance	Min. width at front	Max. Front width	Min. width at rear	Max. Rear width	Length	Min. height of leg guidance	Max. height of leg guidance
3701018		Size 1	8.7 cm	10.4 cm	5.7 cm	7.4 cm	17.4 cm	15 cm	18.5 cm
3702018		Size 2	9.5 cm	12 cm	6.7 cm	9.2 cm	20.1 cm	18 cm	22 cm
3703018		Size 3	11.5 cm	14 cm	8.1 cm	10.6 cm	23.8 cm	21 cm	26 cm
3704018		Size 4	11.5 cm	14 cm	8.1 cm	10.6 cm	23.8 cm	28 cm	36 cm
Art. No.		Foot pans			Min. width at front	Max. width at front	Min. width at rear	Max. width at rear	Length
3701017		Foot pans Size 1			8.7 cm	10.4 cm	5.7 cm	7.4 cm	17.4 cm
3702017		Foot pans Size 2			9.5 cm	12 cm	6.7 cm	9.2 cm	20.1 cm
3703017		Foot pans Size 3			11.5 cm	14 cm	8.1 cm	10.6 cm	23.8 cm

2. Product description.

Foot pans									
Art. No.		Foot pans with dynamic leg guidance	Min. width at front	Max. width at front	Min. width at rear	Max. width at rear	Length	Min. height of leg guidance	Max. height of leg guidance
3701035		Size 1	8.7 cm	10.4 cm	5.7 cm	7.4 cm	17.4 cm	15 cm	18.5 cm
3702035		Size 2	9.5 cm	12 cm	6.7 cm	9.2 cm	20.1 cm	18 cm	22 cm
3703035		Size 3	12 cm	15 cm	8.8 cm	11.8 cm	24 cm	20.5 cm	25.5 cm

Pedals			
Art. No.		Pedals	Depth
3700013		Foot positioning pedals – with bike toe clips and compensation weights	13 cm
Art. No.		Pedals	Width
3700014		Exercise bike pedals	12 cm

Back pelotte pads			
Art. No.		Dynamic back pelotte pads – padded with strap and mount	Width
3701008		Dynamic back pelotte pad Size 1	20 - 30 cm
3702008		Dynamic back pelotte pad Size 2	25 - 35 cm
3703008		Dynamic back pelotte pad Size 3	30 - 40 cm
Art. No.		Width adjustable back pelotte pad - padded, including mount	Width
3701025		Width adjustable back pelotte pad Size 1	20 - 28 cm
3702025		Width adjustable back pelotte pad Size 2	25 - 33 cm
3703025		Width adjustable back pelotte pad Size 3	30 - 36 cm

Pelvic supports			
Art. No.		Dynamic pelvic guidance pelotte pad – padded, with strap and mount	Width
3701009		Dynamic pelvic guidance pelotte pad Size 1	20 - 30 cm
3702009		Dynamic pelvic guidance pelotte pad Size 2	25 - 35 cm
3703009		Dynamic pelvic guidance pelotte pad Size 3	30 - 40 cm
Art. No.		Width adjustable back guidance pelotte pad - padded, including mount	Width
3701026		Width adjustable pelvic guidance pelotte pad Size 1	20 - 28 cm
3702026		Width adjustable pelvic guidance pelotte pad Size 2	25 - 33 cm
3703026		Width adjustable pelvic guidance pelotte pad Size 3	30 - 36 cm

2. Product description.

Fixations						
Art. No.		Chest strap – for the width adjustable back pelotte pad			Width	Length
3701050		Chest strap Size 1			5 cm	18.5 cm
3702050		Chest strap Size 2			6.5 cm	25.5 cm
3703050		Chest strap Size 3			7 cm	30.5 cm
Art. No.		Positioning vest – for the width adjustable back pelotte pad	Inside width	Total width	Side height	Total height
3701051		Positioning vest size 1	8 cm	25 cm	10 cm	28 cm
3702051		Positioning vest size 2	9 cm	30 cm	12 cm	30 cm
3703051		Positioning vest size 3	12 cm	34 cm	16 cm	35 cm
Art. No.		Groin strap, T-shaped – for the width adjustable pelvic pelotte pad	Width Seat surface	Front width	Length Seat surface	Total length
3701052		Groin harness, T-shaped Size 1	24 cm	23 cm	15 cm	32 cm
3702052		Groin harness, T-shaped Size 2	26 cm	26 cm	17 cm	34 cm
3703052		Groin harness, T-shaped Size 3	28 cm	28 cm	19 cm	38 cm
Art. No.		4-point pelvic harness - for the width adjustable pelvic pelotte pad	Width Exterior parts	Width Centre section	Length Exterior parts	Length Centre section
3701053		4-point pelvic harness Size 1	7 cm	7 cm	12 cm	12 cm
3702053		4-point pelvic harness Size 2	9 cm	8.5 cm	13 cm	14 cm
3703053		4-point pelvic harness Size 3	11.5 cm	11 cm	15 cm	16 cm

Handlebars		
Art. No.		Push bar - height adjustable, removable and equipped with an integrated antirotation lock
3600012		Push bar
Art. No.		Brake for accompanying escort – incl. motor switch-off (can only be used in connection with push bar) with push bar)
3608012		Brake for accompanying escorts

2. Product description.

2.8 Drive possibilities

The **momo motion.** can be equipped with the following drives:

Freewheel brake hub (with backpedal brake)
The freewheel brake hub allows the user to stop and start pedalling as they wish. They can brake by pedalling backwards.

3 or 7-gear freewheel brake hub (with backpedal brake)
Using the 3 or 7-gear freewheel brake hub, the user can stop and start pedalling at will. They can brake by pedalling backwards. The user-friendly 3 or 7-gear hub gear system permits switching of gears when the tricycle is at a standstill. Switching takes place using the twist grip shifter on the handlebars.

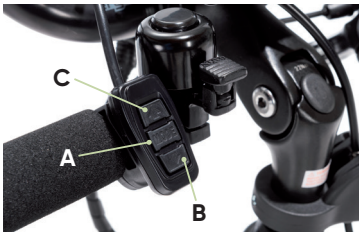
3-gear freewheel brake hub, can be ridden backwards
The user can stop and start pedalling at will with the 3-gear freewheel brake hub. In addition, they can ride backwards. The user-friendly 3-gear hub gear system permits switching of gears at a standstill. Switching takes place using the twist grip shifter on the handlebars.

7-gear freewheel brake with wheel brake (without backpedal brake)
In the 7-gear freewheel hub with wheel brake forward, the movement can be interrupted as desired and be converted in free backwards pedaling in further forward drive. The user-friendly 7-gear hub gear system is suitable for any terrain and also permits switching of gears when the bicycle is at a standstill. Switching takes place using the twist grip shifter on the handlebars.

2. Product description.

2.9 E-drive

The **momo motion.** is already equipped with Heinzmann Direct Power Motor (36V, 250W, impulse torque 60Nm) in the basic model.



Switching the E-drive on and off

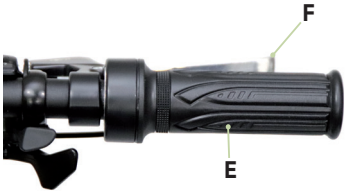
To switch the e-drive on and off, press and hold the "MODE" button (**A**).

Switching the lighting on and off

To turn the lights on and off, press and hold the button (**B**).

Selecting/changing assistance levels

To select or change the assistance level (Eco, Standard or Power), briefly press the buttons (**B** or **C**). The set level can also be ready from the bar (**D**) on the display.



Activate start-up assistance by button (if integrated)

To activate the start-up assistance press and hold the button (**C**).

Activate start-up assistance via twist grip (if integrated)

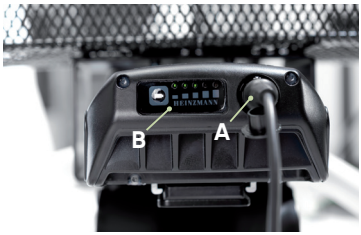
To activate the start-up assistance, turn the twist grip (**E**) towards the body.

Brake handle

When the brake handle (**F**) is actuated, the e-drive is switched off and reactivated as soon as thew brake handle (**F**) is released.

2. Product description.

Battery
The battery can be locked and removed for charging. To charge, plug the charging cable (**A**) into the rear of the opening provided. You can read the progress of loading at any time via the charge level indicator (**B**). The charging time totals approx. 6 hours.



Battery service life
The manufacturer of the E-drive, HEINZMANN, guarantees a minimum of 600 charging cycles for the battery. Appropriate handling / storage and initial loading (see HEINZMANN user manual) increases its service life.

Range
The mileage of the **momo motion.** depends on a wide variety of factors: route (gradients), load / rider weight, level of assistance selected, driving style. HEINZMANN achieves a range of 40 to 80 km per battery charge.

Please also note the HEINZMANN instructions for use.

2.10 Light system

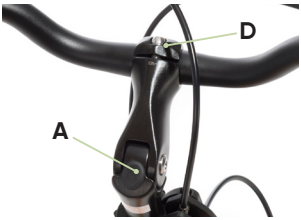
The lighting system on the **momo motion.** is powered by the Li-ion high-power battery (11Ah).

3. Settings.

Settings and adjustments to the product or accessories may only be made by people who have been given the necessary instructions by a medical product advisor. Please ensure that none of the user's extremities are in the respective area when making adjustments of any kind to minimise the risk of injury.

3.1 Presettings

The **momo motion.** is supplied completely assembled. Prior to initial use, however, the following pre-settings must be made.

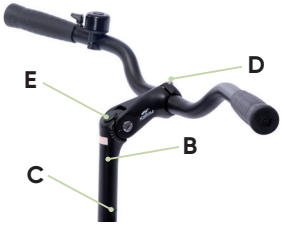


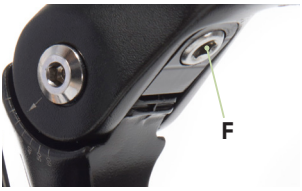
3.1.1 Handlebar adjustment

You can find our scope of delivery for handlebars on page 11 of these Instructions for use.

Height of handlebars

To adjust the height of the handlebars, remove the protective cap from the hexagon socket (**A**), loosen the hexagon socket (**A**) and adjust the stem (**B**) to the required height. By tapping the head of the hexagon socket (**E**) lightly with a hammer, the stem in the fork steerer will loosen. Then re-tighten the hexagon socket.





⚠ **Ensure that the marking for the minimum insertion depth (C) remains on the stem in the fork steerer and therefore cannot be seen.**

Handlebar adjustment

To adjust the handlebar position, loosen the clamping screws (**D**), bring the handlebars into the required position and then firmly re-tighten the clamping screws (**D**).

To change the tilt angle on the stem, please loosen the clamping screw (**F**). The steerer factory setting is 20°. In this way you can change the distance between the saddle and the handlebars, and adjust the required handle height. Then firmly re-tighten the screws again.

⚠ **After each adjustment, please retighten all screw connections!**

⚠ **After adjustment of the handlebars, there must still be no tension placed on the brake cables. If necessary, extend the cables!**

3. Settings.

3.1.2 Saddle adjustment

You can find our selection of saddle forms on page 11 of these Instructions for use.

Saddle height

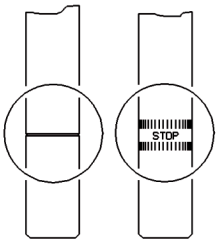
The height of the saddle can be adjusted on the frame saddle tube (**A**) by pulling the saddle post in or out. In order to adjust the height, please loosen the clamp (**B**) and bring the saddle into the required height. Align the saddle and tighten the clamp (**B**) so tightly that the saddle support no longer twists. The saddle height is to be re-set based on the inseam length. Here any contractures of the knees must be taken into consideration. The saddle height should be inspected when the user is sitting on the saddle. The leg extension should not total 0°. In the upper position of the pedal, the knee flexion should not be more than 90°. Should it not be possible to achieved this setting through the saddle height, it is possible to undertake further settings through crank shortening (see **point 4.9 - 4.11**).

Adjusting the saddle horizontally

Every saddle (except for the unicycle saddle) can be minimally adjusted horizontally. To do this, loosen the nuts (**D**) with a size 13 wrench and push the caliper block (**C**) forwards or backwards on the seat stays.

Adjusting the saddle with t-saddle post horizontally

In order to check the horizontal saddle position, turn the pedal crank horizontally forwards and put the foot (while the rider is sitting on the saddle) onto the pedal. Once the lower leg is vertical, the saddle position is correct. You can also loosen the two nuts (**D**) under the saddle using a size 13 wrench, push the saddle to the rear or forwards and re-tighten the nuts.



During adjustment, the saddle post may not be pulled out over the respective marking, as in this case sufficient clamping cannot be guaranteed. The markings are in part designed differently.

After each adjustment, please retighten all screw connections!

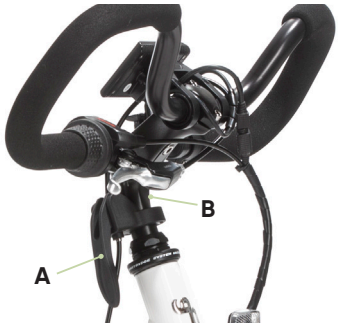
3. Settings.

3.2 Brakes

Various brakes are available for the **momo motion.** depending on the individual requirements of the user.

3.2.1 Parking brake

The parking brake supports the use when climbing on and off the tricycle and secures it against inadvertently rolling away. To activate the parking brake, press the lever (**A**) on the handlebar stem (**B**) downwards. To release the parking brake, push the lever up again.



Always ensure that the brake or the brake blocks function correctly and have been adjusted (see below).

Adjustment of the parking brake or brake blocks

Ensure that the braking function immediately takes effect on actuation of the parking brake lever, taking the necessary backlash into account. Due to "settling" of the Bowden-cables and the natural wear on the brake blocks, it is necessary to reset the brake after a certain amount of time or replace the brake blocks. Each gap between the rim and the brake lining should not be larger than 1.5 mm. To do this, loosen the clamping screw (**C**), press the brake blocks together by hand, pull the Bowden cable taut and then re-tighten the clamping screw. If the brake blocks are not accurately aligned with the rim edge (**D**), you must readjust them accordingly. In order to change the alignment of the brake blocks, loosen the screws (**E**). Leave this work to your specialist dealer in case of any uncertainty.

After each adjustment of the cantilever (V) brake, carry out a brake test. The brake blocks may only be replaced by ones in an identical design. Observe the manufacture name or marking and the type designation. New brake blocks do not achieve the required braking effect until they have been used multiple times.

3.2.5 Backpedal brake

The backpedal brake is actuated by pedalling backwards. The drive options of the freewheel brake hub and the 3 or 7-gear freewheel brake hub feature a backpedal brake.

The backpedal brake is only functional when the chain sits correctly! If the chain jumps off, it is not possible to brake using the backpedal brake!

The rear wheel may block in case of strong braking procedures. Risk of crashes!

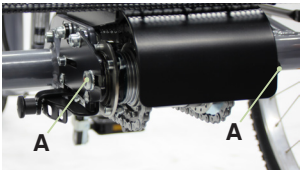
During long downhill runs, it is essential that you use the front and rear brakes in order to avoid overheating of the rear hub brake. This may lead to brake malfunctions!

3.3 Tyres and hoses

The tyres on the tricycle must always have sufficient air pressure, otherwise the tyres may puncture and the rims may be damaged, or the riding characteristics negatively influeced. The optimum tyre pressure totals approx. 2.5 - 3.5 bar. If the tyre tread only depresses slightly on being pressed forcefully with the thumbs, the tyre pressure is correct. For exact values, use a pressure gauge!

Check all tyres regularly and replace them immediately in case of damage or wear!

3.4 Chains and chain maintenance



Drive chains must be regularly cared for. This is in particular the case after riding in rain. The chain must be lubricated with a commercially available chain oil. Due to the expansion of the chain which is a natural result of use, regular inspection of the chain tension is required. Check the chain tension by testing whether the chain on the tricycle can be pressed max. 10 - 15 mm upwards and downwards. In order to reset the tension of the chains in the drive area, loosen the nuts (**A**) on the hub and pull the hub evenly to the rear. In the second step, the main chain must be adjusted by shifting the idler roller (**B**). Leave this work to your specialist dealer in case of any uncertainty!

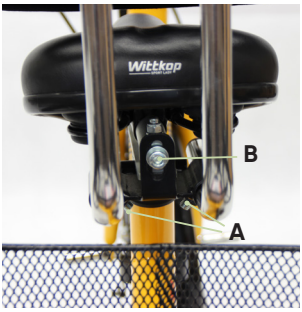
After each adjustment, please retighten all screw connections!

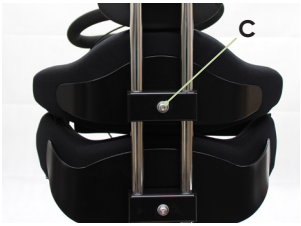
An incorrectly-tensioned chain can lead to increased wear!

4. Accessories.

4.1 Dynamic back and pelvic guide pelotte pads

All back and pelvic guide pelotte pads can only be used in connection with a holding bracket (see **Point 4.7**). For depth adjustment of the pelotte pad holding bracket, please loosen the screws (**A**) on the right and left-hand sides of the support under the saddle, and bring the holding bracket into the required position. The angular adjustment of the holding bracket takes place after loosening the screw (**B**) on the support. The pelotte pads are adjusted in height after loosening the screw (**C**) on the respective support.

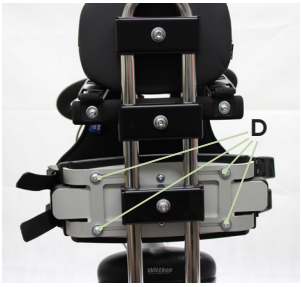




Only use original accessories, otherwise the guarantee will be lost.

4.1.1 Width adjustable back and pelvic guide pelotte pads

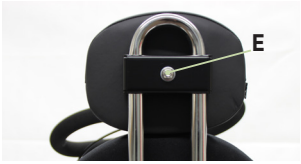
For information on the height, angle and depth adjustment of the back and pelvic guide pelotte pads, see **Point 4.1**. The width adjustable back and pelvic guide pelotte pads can be adjusted in width. To do this, loosen the screws (**D**) on the rear of the back or pelvic guide pelotte pads and bring them into the required position.



4.2 Headrest

The headrest can only be used in connection with a holding bracket (see **Point 4.7**) and is adjustable in height. In order to adjust the height, loosen the screw (**E**) and bring the headrest into the required position

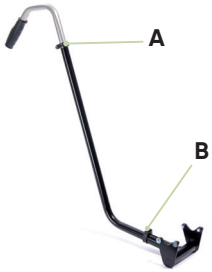
After each adjustment, please retighten all screw connections!



4. Accessories.

4.3 Push bar

The push bar is height adjustable and equipped with an integrated antirotation lock. In addition, it can be dismantled. In order to adjust the height, please loosen the clamp (**A**) and bring the push bar into the required height. In order to remove the entire push bar, please loosen the clamp (**B**). Please ensure on insertion that the push bar is inserted up to its limit into the push handle holder, and cannot be rotated.



Use the push bar only to guide the tricycle!
The push bar is NOT suitable for moving, lifting or tilting the tricycle!

4.4 Brake for accompanying escorts

The brake for the accompanying escort (including motor shutdown and usable only in conjunction with the push bar) allows an escort to slow down the tricycle during use. By pressing the brake, the e-drive motor is switched off. The function of the lever is similar to a normal brake lever.

Always ensure that the brake or the brake blocks function correctly and have been adjusted (see Point 3.2.1).

4.5 Handlebar lock limiter

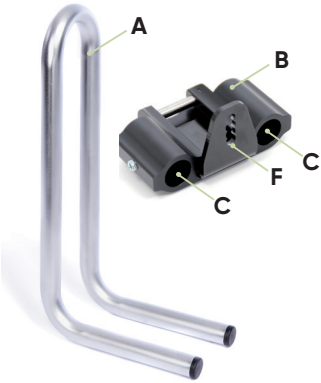
The handlebar lock limiter can be adjusted to determine the direction of travel. In order to adjust the handlebar lock limiter, please loosen all grub screws (**A**) and bring the limiter (**B**) into the required position. You can determine the direction by moving both limiters (**B**) towards the handlebar stop (**C**) and tightening them.

If possible please leave the settings on the handlebar lock limiter as set at the factory!

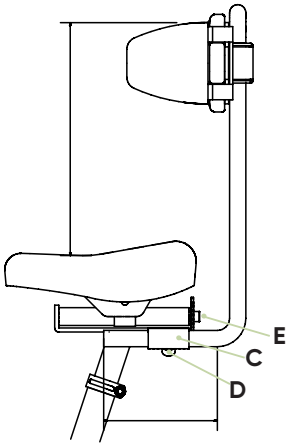
4. Accessories.

4.6 Holding bracket with mount

The holding bracket (**A**) with mount (**B**) permits head, torso or pelvic supports to be attached, which provide the tricycles with additional stability. Included in the scope of delivery is the black bracket adapter, which is mounted onto the T-saddle post. Then the holding bracket is pushed into the holding socket (**C**) and can eb adjusted in depth. To do this, simply adjust the required position and then tighten the screws (**D**). To change the angle of the back strap, loosen the screw (**E**), remove it and insert it into the desired hole (**F**) on the mount. Then tighten the screw (**E**) again.

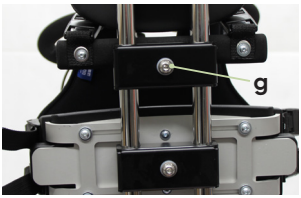


The use of the holding bracket is exclusively possible in combination with the T-saddle post!



4.7 Universal mount

The universal adapter is mounted onto the holding bracket and is used to mount the strap set available for the tricycle. The universal adapter is adjustable in height. To do this, simply loosen the screw (**G**) at the rear on the adapter and bring the universal adapter into the required position.

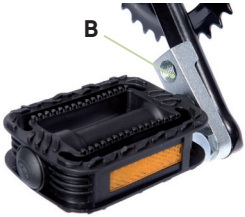


4. Accessories.

4.8 Crank shortener (continuously adjustable)

The adjustable crank shorteners are to be mounted onto the cranks with clamps. Please note here that the crank shortener marked "R" is to be mounted on the right-hand side and the crank shortener marked "L" is to be mounted on the left-hand side.
The adjustment of the crank shortener is to be undertaken so that the amplitude of the pedal depicts the flexibility of the knee joint. In the lower pedal position, the maximum extension to be achieved, and in the upper position, the maximum flexion of the knee is to be achieved. This adjustment is to be undertaken in interaction with the saddle height. In order to adjust the continuously adjustable cable shortener, loosen the screw (**A**) and bring them into the required position.

4.9 Crank shortener



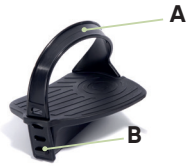
The crank shortener must be mounted onto the cranks using the screw included in delivery and the clamp, and shortens the crank by 2.5 or 5 cm. Please note here that the crank shortener marked "R" is to be mounted on the right-hand side and the crank shortener marked "L" is to be mounted on the left-hand side. The pedal is to be mounted in the required position in the crank shortener. The position of the pedals must be conducted so that the amplitude of the pedal depicts the flexibility of the knee joint. In the lower pedal position, the maximum extension to be achieved, and in the upper position, the maximum flexion of the knee is to be achieved. This adjustment is to be undertaken in interaction with the saddle height. In order to adjust the crank shortener, loosen the pedals with a 15mm open-end wrench and place it into the opening (**B**).

4.10 Special crank for knee contracture

The special crank for knee contractures is suitable for 20" - 26" tricycles, and can either be mounted on the left or right-hand side.

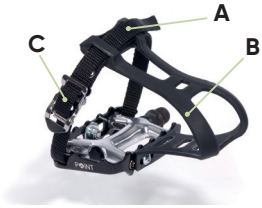
5. Foot positioner.

5.1 Exercise bike pedals



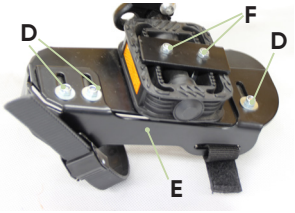
The exercise bike pedals are characterised by their integrated balancing weight, whereby the tread surface automatically balances itself horizontally. This permits the rider to climb on independently. The strap (**A**) is adjustable in length, and at the same time provides easy side guidance. To adjust the length of the strap (**A**) pull on the lower end in order to loosen the strap (**A**) from the plug (**B**). Now adjust the strap (**A**) to the required length.

5.2 Foot fixation pedals



The foot fixation pedals are characterised through the integrated balancing weight, whereby the treads are automatically horizontally balanced. This permits the rider to step onto them independently. The strap (**A**) is adjustable in length, and at the same time provides easy side guidance. The cage mounted at the front of the pedals (**B**) prevents the toes from slipping through at the front. In order to adjust the strap (**A**) in length, pull the strap (**A**) back out of the strap guide (**C**). Now the strap (**A**) can be shortened through pulling and extended through pressing under the lock. To fix the adjustment, guide the strap (**A**) back through the strap guide (**C**).

5.3 Foot pans



The foot pans provides side guidance and thus prevents internal or external rotations of the foot. To guarantee this function, the foot pan is adjustable in width, which can be conducted by loosening the three screws (**D**) and shifting the side part (**E**) in the slotted hole. The foot pans are mounted at the factory centrally on the pedals. In order to shift the pressure point under the foot, it must be moved in four positions. To do this, the nuts (**F**) under the pedals must be removed and the screws (**D**) moved into the required positions. Then the counterplate must be placed onto the screws (**D**) and the nuts (**F**) must be re-tightened. By loosening the nuts (**F**) and twisting the foot pan on the pedal, it is possible to adjust the rotation. In order to secure the user in the foot pan, pull the snap-in straps (**G**) for preliminary fixation. Then fix the straps (**H**) and (**I**).

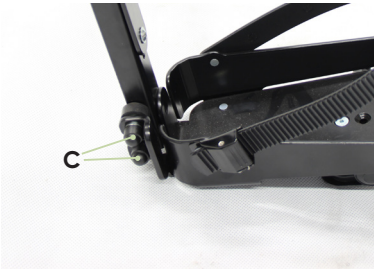
5. Foot positioner.

5.4 Foot pans with leg guidance

See **Point 5.3** for the function and settings of foot pans. The leg guidance also stabilises the foot joint and reduces internal rotation of the leg. The adjustment of the leg guidance is to be undertaken through loosening of the screws (**A**) and moving them in the slotted hole. The height adjustment should be selected so that the calf clamp lies against the vertex of the calf. By loosening the screw (**B**) on the inside of the leg guidance, the calf clamp can be adjusted in depth.

5.5 Foot pans with dynamic leg guidance

For the function and adjustment of foot pans with leg guide, see **Point 5.4**. The dynamic leg guidance also permits defined rotation of the leg and thus prevents excessive abduction, in particular of short legs. At the same time, the stabilisation of the foot joint is retained. To adjust the degree of movement of the leg guidance, loosen the cover (**C**) and the nut below it, and screw the elastomer in or out accordingly. Check the movement range of the leg guidance.



6. Strap systems.

6.1 Chest strap

The chest strap is attached to the width adjustable back pelotte pad, and, if required, ensures secure fixation of the user. The strap is mounted with the aid of the plug lock to the back pelotte pad and threaded through the strap guidance on the click buckle. Then the click buckle is pressed down to fix.

6.2 Positioning vest

The positioning vest is mounted in the lower area of the width adjustable back pelotte pad. Screw the strap ends of the positioning vest onto the universal adapter and tighten the screws (**A**). The strap of the positioning vest is mounted onto the back pelotte pad with the aid of the plug lock, and threaded through the strap guidance on the click buckle. Then the click buckle is pressed down to fix.

6. Strap systems.

6.3 Groin harness, T-shaped

The T-shaped groin harness is mounted onto the width adjustable pelvic pelotte pad. The strap is mounted onto the pelvic pelotte pad with the aid of the plug lock and threaded through the strap guidance on the click buckle. Then the click buckle is pressed down to fix.

6.4 4-point pelvic harness

The 4-point pelvic harness is mounted onto the width adjustable pelvic pelotte pad. The strap is mounted onto the pelvic pelotte pad with the aid of the plug lock and threaded through the strap guidance on the click buckle. Then the click buckle is pressed down to fix.

6.5 Manual fixation

The manual fixation provides additional security for the user by keeping their hands safely on the handlebars. To do this, the user simply inserts their hand into the hand fixation and closes the hook and eye fasteners.

7. Repairs and cleaning.

7.1 Care and maintenance

In order to retain the functional safety and the appearance of the tricycle, it must be regularly maintained. Please observe the following guidelines:

- Never allow dirt to dry onto the bicycle, but always remove it with water and a soft cloth or sponge. Otherwise you may damage the bearings, the paintwork or the decorations.
- Do not use aggressive cleaning agents. Use a mild detergent solution to clean.
- Use a standard commercial spray disinfectant to disinfect the saddle, handlebars and other upholstered parts which come into contact with the skin.
- Repair paintwork damage immediately.
- In particular in winter, store the bicycle in a dry room with a consistent temperature.
- Prior to extended storage of the tyres, check the air pressure and, if necessary, pump them up to the air pressure recommended by the manufacturer (see **Point 8**).
- Please also pay attention to our general cleaning and hygiene advice. This can be found at **www.schuchmann.de/en/media-library**.

7. Repairs and cleaning.

7.2 Repairs

Please carry out a daily visual inspection and check the tricycle regularly for cracks, breaks, missing parts and malfunctions. In case of a defect or malfunction, please contact the specialist dealer who supplied you with the product (see **Point 11.5**).

Storage in winter

Before storing the tricycle in winter, clean it (see **Point 8.1**) and ensure that it has sufficient air pressure in the tyres.

Inspection in spring

Before you use the tricycle again in spring, ensure that the air pressure in the tyres is sufficient and that the tricycle is not damaged.

Work that must be carried out by a specialist workshop at least once a year, if required:

- Check the chain and chain tension, adjust if necessary, clean and oil.
- Check rear wheel track, adjust if necessary.
- Check bottom bracket and lubricate if necessary.
- Lubricate pedal bearing, check bearing clearance and if necessary adjust (or replace).
- Check the hub gear and adjust if necessary.
- Check the brake system for function, adjust if necessary. If the brake is poor, check the hand lever, cable, brake lever and brake pads for their condition, adjust and replace if necessary.
- Lubricate joints and bearing points.
- Replace bent or trapped cables.
- Check rims for side and top impacts.
- Check the spoke tension and adjust if necessary.
- Check the tyre profile.
- Check the lighting and signal system.
- Check rear hub and lubricate if necessary.
- Check frame and fork for damage and replace if necessary.
- Arrange for annual leakage current measurement to be carried out on the electric drive.

7. Repairs and cleaning.

Controls to be performed by the user of the bicycle if necessary:

- Check the chain and chain tension, adjust if necessary, clean and oil.
- Check the chain for wear, oil and replace if necessary.
- Check bottom bracket mounting and repair if necessary.
- Check pedals for clearance.
- Gear system - check settings.
- Check the handlebar and handlebar stem for damage and replace if necessary.
- Check the brake system for function and adjust if necessary.
- Check the tyre pressure and profile.
- Check the lighting and signal system.

7.3 Spare parts

Only use original accessories, otherwise the guarantee will be lost.

Should you wish to order spare parts, please contact the specialist dealer who supplied you with the tricycle, stating the serial number (see **Point 10.5**). Necessary spare parts and accessories must only be installed by trained personnel.

7.4 Duration of use and re-use

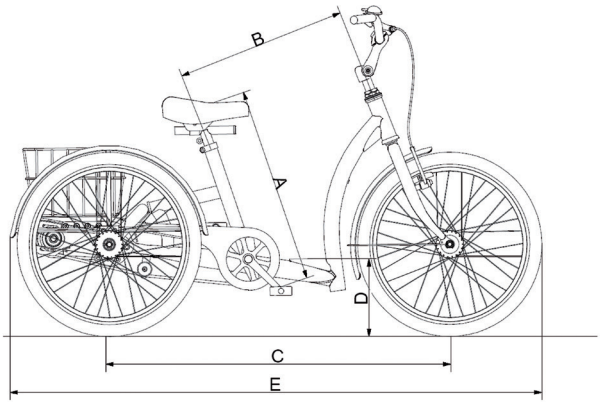
The expected duration of use of our product, dependent on the usage intensity and amount of re-use, totals up to "8" years, if the usage takes place in accordance with the information in these instructions for use. It may be possible to use the product over and above this time period if it is in a safe condition. The expected duration of use does not refer to wear parts, such as for example covers, wheels, batteries.....The maintenance and evaluation of the condition, and if applicable the potential for re-use, must be decided by the specialist dealer.
The tricycle is suitable for re-use. Prior to forwarding on, please follow the cleaning and disinfection instructions stated in **Point 7.1**. Accompanying documents such as these Instructions for use are part of the product and must be passed on to the new user.

7.5 Torque information

Pedal cranks:	40 Nm
Front wheels:	20 Nm - 22 Nm
Heinzmann wheel hub motor:	35 Nm
Rear wheels not driven:	25 Nm to 30 Nm

8. Technical data.

Dimensions - basic model



		16“	20“	24“	26“	26" (XL)
A*	Pedal to top edge of saddle	42 - 57.5 cm	50 - 64.5 cm	56.5 - 73.5 cm	66.5 - 83 cm	74 - 90.5 cm
A**	Pedal to top edge of saddle	45 - 60 cm	52 - 68 cm	58 - 81.5 cm	67.5 - 91 cm	75 - 98.5 cm
B	Saddle support tube to front tube	39 cm	45 cm	52 cm	58 cm	58 cm
C	Wheelbase	80 cm	91 cm	104 cm	112 cm	112 cm
D	Access point height	18 cm	20 cm	22 cm	23 cm	23 cm
E	Full length	120 cm	140 cm	165 cm	178 cm	178 cm
	Full width	65 cm	69 cm	75 cm	75 cm	75 cm
	Weight	24.5 kg	27 kg	29.5 kg	31.5 kg	31.7 kg
	max. load	60 kg	80 kg	100 kg	120 kg	120 kg
	Max. air pressure	2.5 - 3.5 bar	2.5 - 3.5 bar	2.5 - 3.5 bar	2.5 - 3.5 bar	2.5 - 3.5 bar

* Dimensions with standard saddle post / ** Dimensions with T-saddle post

9. Guarantee.

The two-year statutory guarantee period shall apply for all products. This begins with the delivery or handover of the goods. Should a verifiable material or manufacturing fault occur within this time period, we shall, after carriage paid return to us, view the indicated damage and, if applicable, either repair or deliver a new product at our discretion.

10. Identification.

10.1 EC declaration of conformity

Schuchmann GmbH & Co.KG
Dütestr. 3
D-49205 Hasbergen
Tel.: +49 (0) 54 05 / 909 - 0
Fax: +49 (0) 54 05 / 909 - 109

CE

declares on their sole responsibility that the product named below, classified in product class 1,

momo motion. - the tried-and-tested tricycle with E-drive

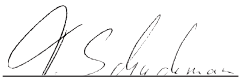
Art. no.: 36 02 000 (16") 36 03 000 (20") 36 04 000 (24")
36 05 000 (26") 36 06 000 (26" XL)

corresponds with the relevant regulations of the regulations and guidelines:

- EC Directive 93/42/EEC on medical products from 14th June 1993
- DIN EN 12182 Technical aids for the disabled
- EN ISO 14971 Medical products - Application of risk management on medical products
- DIN EN 14764 City and trekking bicycles - Safety requirements and test procedure
- DIN EN 14765 Children's bicycles - Safety requirements and test procedure
- DIN EN 60601-1 Medical electrical devices Part 1: General determinations for safety including the main performance characteristics

This declaration of conformity applies only for products with the article numbers and is valid until 31.12.2021.

Date 10.05.2019

Signature 

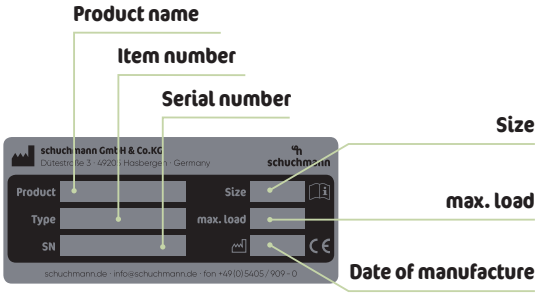
Name Torsten Schuchmann

Function Safety Representative for Medical Products

10. Identification.

10.2 Serial number / date of manufacture

The serial number, the date of manufacture and other information can be found on the type plate, which is located on all of our products (**A**).



10.3 Product version

The **momo motion.** is available in five sizes (16" - 26" XL) and can be supplemented through a diverse range of accessories (see **Point 4).**

10.4 Issue of the document

momo motion. instructions for use. - Change status B; Issue 06.2019

10.5 Name and address of the manufacturer, specialist dealer supplying the product

This product was manufactured by:

Schuchmann GmbH & Co. KG
Dütestraße 3 · 49205 Hasbergen
Tel. +49 (0)5405/909-0 · Fax +49 (0)5405/909-109
info@schuchmann.de · www.schuchmann.de

This product has been delivered by the following specialist dealer: