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QuattroPower Support Handle with Vacuum Safety Indicator













User Instructions **QuattroPower Support**



1400265S, 1400266S



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1. General



1.1 General information

Please read this instruction manual carefully before use and follow the safety instructions to ensure your safety when using the mobile QuattroPower support handle. Keep this instruction manual for future reference and pass them on to other users!

If the safety rules stated in the instruction manual is not observed, any liability on our part is excluded.

1.2 Explanations/symbols in this manual and on the handle

	Instructions manual must be read! (ISO 7010; M002)			
	For persons with visual impairment, the font size for this on-line manual can be set accordingly at https://www.mobeli.com/download			
Ţ	Warning (indicates a dangerous situation)			
***	Manufacturer (additionally, year of manufacture on the handlebar)			
REF	Order number			
· B	Maximum user weight			
CE	The mobile MOBELI grab handles are compliant with Regulation (EU) 2017/745			
MD	The mobile MOBELI grab handles are Class I medical devices			
LOT	Batch designation			
UDI	(Unique Device Identification)			
类	Keep out of direct sunlight			



Allergy Notice: The high-quality suction pads contain natural rubber latex. Natural rubber latex can cause allergic reactions including anaphylactic reactions.

1.3 Intended use



As support handle or stand-up handle for adults and children. The mobile QuattroPower support handles have been developed to support natural movement. **The support handle is not designed to carry the full body weight.**

Any other use, e.g. as a seat, carrying handle or climbing aid, is not permitted. Lateral loading is not allowed, except when a side arm enhancement is installed (see accessories page 12).

1.4 Indication

Suitable for people with the following conditions: limited mobility, balance problems, muscular weakness (mild to moderate), postoperative rehabilitation needs, functional impairments.

1.5 Contraindication

The grab handle is not suitable for persons who have one or more of the following conditions:

Cognitive impairments or dementia with a lack of ability to use the device safely (unless the caregiver or an assistant can lock the rocker arm with the rocker arm lock (accessory) and regularly checks the vacuum status for the surface in question).

Persons weighing more than the specified maximum user weight.

Unsuitable non-porous surfaces or non-adhesive surfaces on which secure attachment cannot be guaranteed.

1.6 Application range of the product



The QuattroPower support handle is intended for largely independent use in enclosed spaces such as in toilets, shower cubicles, bathtubs, and at sinks. For the vacuum suction generated by the suction pads to be effective, **the support handle may only be attached** to smooth and non-porous rigid surfaces that are pore- and steam-tight, clean, dry, and free of oils and grease.



On rough or porous surfaces, the vacuum hold will be diminished or does not exist at all. Please bear in mind that tiles are not necessarily always smooth and steam-tight (i.e., suitable for vacuum generation).

Test your tiles and the wall prior to use (with the help of another person, if necessary).

Since the vacuum suction pads are made of highly adhesive, soft, elastic natural rubber, they can usually adapt to slightly textured tiles. (Attention, reduced holding time! Pay attention to the safety indicator!)

The mobile QuattroPower support handle is ideal for use at home, e.g., for temporary use after a hospital stay or for testing living space. It can also be used in clinics and care facilities as an additional and short-term supplement to stationary grab handles.

The mobile support handle can also be used in places where stationary grab handles cannot be installed, e.g., in glass showers or bathtubs. If drilling into walls is not permitted (not possible), e.g., in a rented apartment, or if there may be water and/or electrical lines in the wall.

Due to the closed triangle of forces, mobile support handles can even be attached to tiled cavity walls (e.g. 2-layer gypsum plasterboard planking).

For your information

In hotels and public establishments in Europe, tiles must be non-porous and steam-tight (as per DIN/EN 159 and 176). According to the tile adhesives material standard DIN EN 12004, tile adhesives must have a minimum adhesive strength of 0.5 N/mm². E.g., for two tiles with a tile size of 147 mm x 147 mm x 0.05 kg/mm², this would result in an adhesive strength of approx. 2,160 kg. Even with an effective adhesive surface of only ½ of the tile surface (e.g., due to a rough serrated trowel) and tile joints not filled-in, there would still be an adhesive strength of approx, 700 kg. Unfortunately, though, one cannot always rely on this assumption; therefore, it is absolutely indispensable to test the adhesive strength of the respective tiles or other surface materials on the wall beforehand.

Furthermore, due to material ageing or in prefabricated construction there might be a reduction of the adhesive strength, therefore testing is essential (e.g., by abrupt application of force)

1.8 **Useful life**

The expected useful life is six years (if used daily and in accordance with the intended purpose) in an institution or public facility. The prerequisite for this is compliance with the maintenance and safety regulations specified in these operating instructions. The actual service life may vary depending on the frequency and intensity of use. The handles have been tested in accordance with ISO 17966:2016.

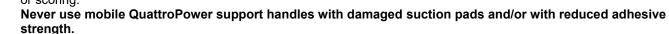
1.9 Reuse

The product is suitable for repeated use. How often the product can be used depends on the type of use. Clean and disinfect the product thoroughly before re-use and check the handle carefully, especially the function of the vacuum safety indicator.

2. Safety information



- Prior to any use of the mobile QuattroPower support grab handle, the vacuum safety indicator must be examined and acted upon according to the instructions (cf. page 11)
- Even on fully impermeable, flush tiles it can never be determined exactly when the vacuum will decrease (e.g. due to hairline cracks), therefore always pay attention to the vacuum safety indicator
- Use the mobile QuattroPower support handle only when you have experience in handling it or while you are under supervision of a person who has experience in its use. Children may only use the handle under supervision or if you have secured the rocker arms with a rocker arm lock (cf. accessories on page 12).
- Before each new attachment, make sure of the proper functioning of the mobile QuattroPower support handle. Pay particular attention to the suction pads; they must be clean and undamaged and must not show any signs of tearing or scoring.



- Keep in mind that the grab handle is only as strong as the surface it is attached to; so, check the adhesion of the substrate (e.g. the tile on the wall) before using the grab handle in a new place.
- After applying the vacuum tilting levers, the sucking adhesive strength created by the vacuum can be entirely or partly absent, in particular with unglazed tiles, natural stone (marble), wood, as well as ceramic coating that has been textured/grinded or given a fine-grained texture to provide a non-slip finish.
 - This can be seen and felt when the safety rocker of the vacuum safety indicator is extended!



- **Attention!** Usage under water reduces the holding strength.
- The holding strength stated above refers to normal room temperature (10 °C 30 °C); at high temperatures, the holding strength will be reduced. Attention! Temperatures higher than 41 °C can be reached due to solar radiation or by contact with hot water which can lead to skin damage and/or burning.
- The indicated holding strength is calculated at about 300 m above sea level. At higher altitudes, the holding strength diminishes (by approx. 10 % per every additional 1000 m of altitude).



- Do not expose the suction pads to direct UV radiation (sunlight); otherwise, they will quickly lose their elasticity. For this reason, never attach the grab handles to any surface (e.g. window) that will be illuminated from the outside.
- Do not place anything underneath the support handle that could be damaged by the handle suddenly releasing and dropping on it or remove the handle after use.



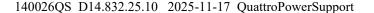
- The mobile support handles may only be used with the tilting levers perfectly engaged.
- Do not attach the QuattroPower support handles to vehicle metal panels, foils, or thin glass panes because the vacuum created by the suction pad might deform and damage these materials.
- If the mobile QuattroPower support handle remains attached over prolonged periods of time, there is the risk that the underground (e.g. bathtub) gets permanently stained by the suction pad.
- Never combine MOBELI products with parts from other manufacturers. In this case, all warranties and liability shall
- Risk of accident!!! lapse.

If a serious incident occurs involving this medical product, contact the manufacturer of this product (E-mail: info@mobeli.de) as well as the national competent authority in your country.









3. Operation / Assembly

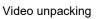
3.1 Mounting (see page 8)

(Fig. 1) Push in the snap-lock pins from the bar connector (B) and insert into the short bar (C) until the snap-lock pin engages in the hole. (Fig. 2 arrow) Then insert the long bar (part D) into the bar connector (B). Insert the two bars (C and D) into the suction head connectors (A) (fig. 3).



Test the secure hold of the snap-lock pins by trying to pull the components apart! The handle must not be used if not all snap-lock pins on both sides are securely locked.

3.2 Attaching / suction (see pages 10 and 11)





- 1. Examine the vacuum suction pads and the surface they are to be attached to.
- 2. Clean the surface thoroughly (fig. 11) so that it is **clean** (e.g. from etched lime sludge) and **grease-free**. Likewise, the surface of the suction disc must be clean.
- 3. Firmly press the upper suction heads of the support handle onto the surface where they should be sucked on. (Fig. 13).
 - a. The tilting vacuum levers must be loose at this point.
 - b. Take care that both suction pads are always positioned with their full suction area on the tiles or other surfaces so that no grouting line or tile joint lies under a suction pad and the pads are attached at least 10mm above the lower edge of a joint (fig. 12).
- 4. While pressing the handle against the surface to be adhered to and at the same time pressing on the rocker, turn over the 1st rocker and then the 2nd rocker (figs. 13, 15, 16, 17, 18).
- 5. Attach the lower suction heads (fig. 14); when doing so, you must turn the suction heads in such a way (see arrow) that they are flat on the wall (you must apply some force due to the built-in safety brakes).
- The vacuum safety indicators continuously monitor the current vacuum state. After the rockers have been pressed and turned, all the red-coloured safety tabs must be completely recessed flush with the surface in the rockers (page 11, figs. 19 and 21)! In the course of time when the vacuum decreases, the safety rockers will extend.
 - If a red side edge of the safety tabs (figs. 20 and 22) has become visible, the grab handle must not be used under any circumstances and must be reattached immediately!
 - The clearer a red side edge of the tabs (figs. 20 and 22) can be seen, the lower is the actual adhesive strength!
- 7. Check the vacuum safety indicator prior to any use. This can be felt by visually impaired or blind people. If the vacuum safety indicator is not retracted (as just described), reattach the suction pads. If the indicator rockers still protrude after the rocker arms have been flipped and continue to protrude even after the rockers have been pressed in, the handle must be reattached. (cf. malfunctions on page 7).

If the safety rockers do not retract completely, do not use the handle under any circumstances!

3.3 Releasing

Place your finger under the rocker arm and lift it up; at the same time set your thumb on the structured recess of the vacuum tilting lever to prevent a recoil effect.

Caution! With wrong operation there exists danger of squeezing.

- Wait a little while! The suction pads will relax after approx. 30-60 seconds and return to their original shape, and then the suction device can be removed from the wall. Should the suction pads keep adhering longer, you can additionally raise the pads at one side (between wall and suction pad) with a finger so that air can penetrate underneath.
- 3. Do not try to loosen the suction pads with sharp edged items or tools; you would damage them.
- When not in use, store the mobile support handle with the suction pads relaxed (i.e., with tilting levers disengaged), flat and plane. Protect your mobile support handle (e.g. in the box) from direct sunlight.

3.4 Disassembling (see pages 8 and 9)

Push in the snap-lock pins of the bars with the included push-in aid (without the red part) and pull the bars out of the suction head connector while firmly holding it (figs. 5 and 6).

Push in the snap-lock pins (fig. 7 see arrows) with the included push-in aid (with the red part) and pull the bars out of the bar connector while firmly holding it (fig. 8).

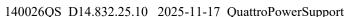
Disassembling the bar connectors and suction parts: Push in the snap-lock pins (fig. 9) of the suction head connector with the included push-in aid (without the red part) and pull the suction casing out of the suction head connector while firmly holding it (fig. 10).

When using other implements than the push-in aid there is a risk that you press the snap-lock pins out of their guides!

(You can assemble two grips out of the disassembled QuattroPower support grip; compare figs. 4 and 7 or our video.)







4. **Technical data**

4.1 Markings on the product

(For explanations of the symbols, see page 3)

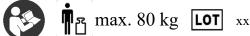
Above on the short grab handle













Below on the long grab handle

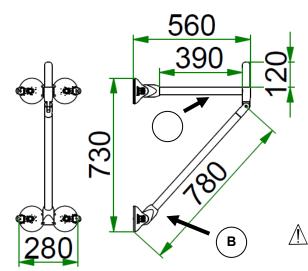


ROTH GmbH D-72213 Altensteig 202X

OuattroPower







Thanks to the Mobeli modular system, the additional handle extension of 120 mm can also be retrofitted.

Order no. 1400265S is without grab horn and order no. 1400266S is the QuattroPower support handle with grab horn.

Maximum user weights in the table of technical data and on the handlebar must be observed!

The mobile QuattroPower support handles have been developed to support natural movement. They are not designed to carry the full body weight

Table of technical data 4.2



REF ROTH order no.	Wall distance in mm	Grab length	Width in mm	Grip Ø in mm	Max. user weight in kg	Grip weight in kg
14002 65S	560	390	280	35	80	3.1
14002 66S	560	390 and 120	280	35	80	3.3

4.3 **Materials**

Handlebar made of high-impact PVC, all metal parts made of stainless steel Suction pad made of NBR, suction casing made of PA 6.6, crosspieces of POM

5. Maintenance

5.1 Maintenance (cleaning/disinfection)

- Clean the support handle with a cloth using standard household detergents such as soapy water, but do not use abrasive or aggressive cleaning agents. Do not use thinner or petrol and do not use detergents that attack plastics.
- Rinse the support handle thoroughly with warm water until all soap and foam residues have been removed. (Otherwise, rust can adhere to the stainless-steel parts.)
- Always keep the suction pads free from dust and dirt by rinsing them with warm water and then drying with a lint-free cloth.
- Disinfect the product by wiping all surfaces with a cloth with disinfectant.
- In a medical environment, also refer to the "Recommendations of the Commission for Hospital Hygiene and Infection Prevention" on the website of the Robert Koch Institute www.rki.de.
- The support handle is resistant to the active agents in the hand and surface disinfectants certified by the DGHM (Disinfection Commission of the German Society for Hygiene and Microbiology) with the exception of phenol ether, pyridine derivative, and thiocyanate.
- Only alcoholic disinfection without re-fattening component may be used for the suction pads.



5.2 Maintenance (service)

- If the handle has been attached to the wall for a prolonged period, the suction pads will overstretch. We
 therefore recommend that you remove the handle from the wall approx. every 14 days and leave it
 overnight on a flat surface with the suction pads relaxed, then reattach it the next morning.
- Examine the suction pads for possible functional deterioration because of reduced elasticity due to age, wear, exposure to sunlight, uneven storage, scoring, etc.
 If the suction pads are damaged and therefore the adhesive strength is limited, the complete suction heads (spare part no. 14002S) are to be replaced or the suction pads (spare part no. 1402721) must be exchanged by trained specialist staff. We recommend to check / check or replace all suction heads after about 2 years in a specialist shop (spare part no. 14002S).
- Keep the vacuum safety indicator always free from dirt!!
- Check the handle regularly for damage and do not use the handle under any circumstances if it is damaged.

5.3 Storage



• If the handle is not used for a long period of time, it must be stored with the suction pads relaxed on a flat surface (preferably in its packaging) and protected from sunlight.

6. Recognizing and remedying malfunctions

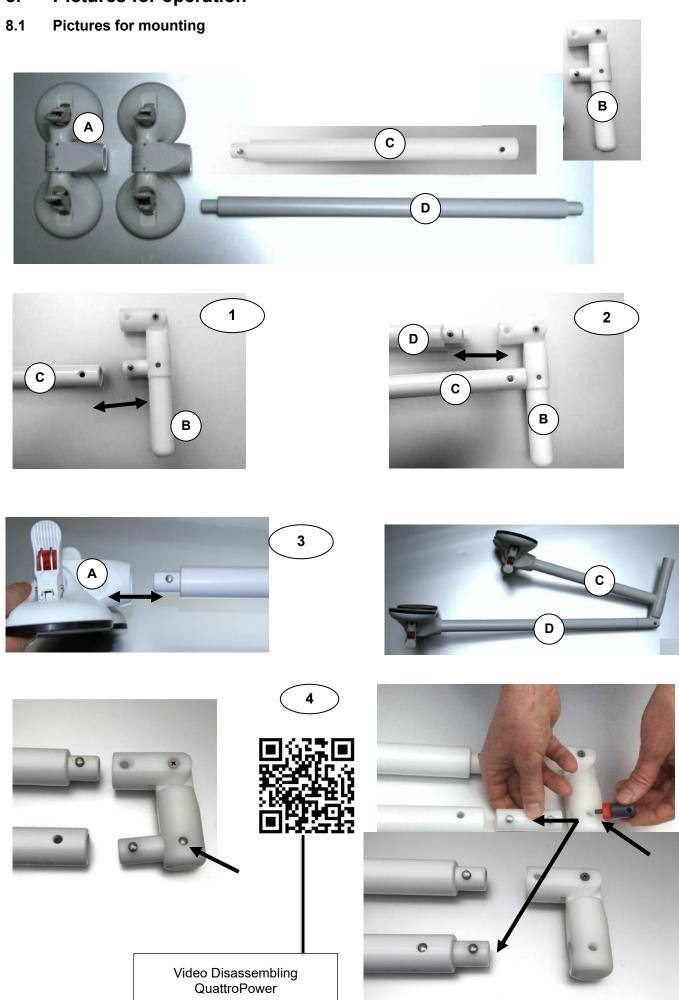
Malfunctions	Possible causes of malfunctions/test	Corrective measures
With new handle: safety indicator pops up after a short time	Lime or other dirt on the surface.	Clean the surface thoroughly.
	The surface is not non-porous even if it looks smooth, or it is damaged (e.g. hairline crack in the tile). Possible test procedure: Attach the handle to a glass pane or mirror and pay attention to the safety indicator. If now the safety indicator does not move any more, the fault is in the substrate.	If possible, attach the handle at another location where the underground is non-porous. If this is not possible, self-adhesive stainless-steel plates (order no. 1461418) to which the handles can be attached can be glued on. See accessories.
With older handle: safety indicator pops up after a short time	Suction pads scratched or damaged.	If there is damage, the suction pads (order no. 1402721) can be replaced by a specialist dealer or the complete suction head (order no. 14002S) can be replaced.
Indicator rocker is still slightly raised after mounting	Toggle lever not firmly pressed down before turning over!	Attach the handle again while beforehand pressing the rocker arm firmly down. (Page 10 fig. 16 arrow 2) See video: attach grab handle
	The suction pad is overstretched. This happens when the handle has been attached to the wall for a long time. Video attach grab handle	Store the handle overnight on a flat surface with the rocker released. Attach again the next day while beforehand pressing the rocker arm firmly down. If the mounting rocker still protrudes after pressing it in, the suction pads (order no. 1402721) must be replaced by a specialist dealer or the complete suction head (order no. 14002S) must be replaced.
The suction heads cannot be pressed flat against the wall.	The built-in safety brakes prevent the suction heads from rotating.	With sufficient force, the suction heads can be adjusted correctly (page 10 fig. 13 and 14). If this is not possible to do for you alone, please ask a specialist to help you.
The snap-lock pin has fallen out.	The snap-lock pins (pages 8 and 9 figs. 4 and 7) have been pressed in without the additional red part. Another object that was too long was used to unlock.	The snap-lock pins can be quickly reinstalled by a specialist using a tool. If these are lost, individual parts can also be reordered.

7. Disposal

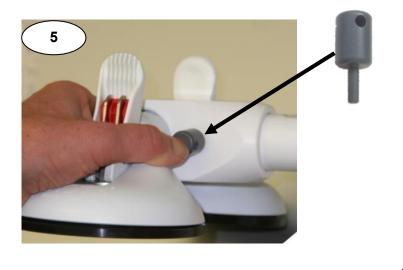
The product packaging should be recycled. The metal parts can be recycled as scrap metal. Disposal must be carried out according to the respective national statutory regulations. Please ask your local or communal authority about local disposal facilities.

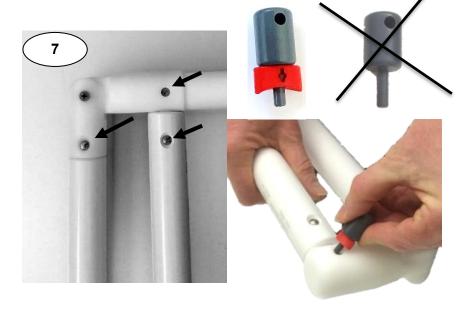
These ROTH mobile support handles may not be exported to the U.S. (cf. U.S. version). Subject to technical modification.

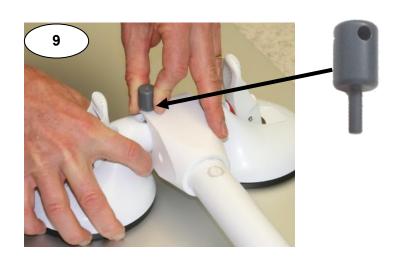
8. Pictures for operation

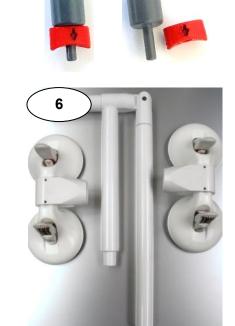


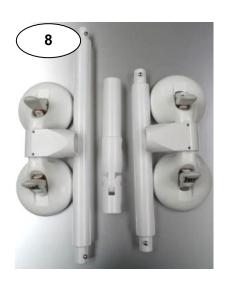
8.2 Pictures for disassembly











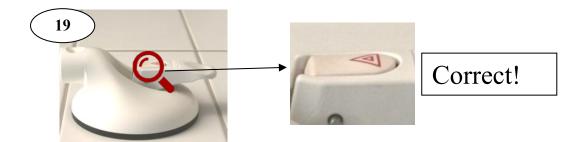


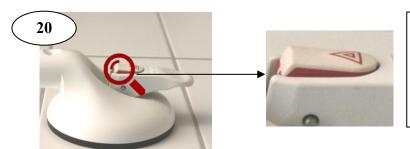
8.3 Pictures for operation / assembly





8.4 Images of the function of the vacuum safety indicator Vacuum safety indicator on the rocker arm





Adhesive strength too low!

Grab Handle must be reattached immediately.

Risk of accidents!

Functionality of the safety rocker: The vacuum is permanently checked!

Explanation of the symbols on the handles:



Full security for the the specified maximum user weight.



Attention! Attention: The handle must be reattached immediately!

The vacuum of the handle is reduced. The handle is no longer permissible for the maximum user weight. (Only for your information: A reduced holding force is still present.)

9. Accessories

(Accessories are available from your specialist dealer)

To prevent unauthorised persons (e.g. people with dementia, children, or in public areas) from opening the handle, we recommend our rocker arm safety lock.

REF

1400674 (for 4 locks and 1 key).

Video tilting lever lock

Rocker arm extension Flexible contrast rings Stainless-steel plates Order no. 1400574, Force amplification for actuating the rocker arm Order no. 1402766, for better contrast for visually impaired persons

Order no. 1461418, for non-porous tiles

Protective parts Order no. 1400682, Protection of the suction pad during transport

Video rocker arm extension

Toilet paper double holder **REF** 1400650
The toilet paper holder for two toilet rolls is simply and quickly attached to the QuattroPower.



lateral support enhancement

REF

1400650

With lateral load on the support handle.

Video lateral support enhancement





Should you require further information and videos about the products, please contact us.

You can also find them on our website: www.mobeli.de

The instructions for use are available in the download area: www.mobeli.de/download-bereich

A brand of





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