

TELESCOPIC POLE – to carry support
devices.

User reference manual

MODEL: GRIPO ALU



MOBILITYCARE 

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HEPRO – aid manufacturer

HEPRO is a Norwegian industrial company that develops, manufactures and sells technical aids for adults and children with mobility impairment. The company was established in 1987 and has to day about 50 employees. The company`s headquarter and factory is located in Rognan, Nordland:

Hepro AS
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8250 Rognan, NORWAY

Technical Service

Services are performed in the factory at Rognan, but also by partners in many parts of the country. Our sales personnel are also trained in technical maintenance. If errors on products or other queries, please contact your supplier or importer.

Adaptations and Special Adaptations

Hepro is a manufacturer and can therefore offer user customized solutions when required. Customizations and custom solutions to meet individual needs is part of the daily tasks of the plant.

Warranty

When used in accordance with the supplied assembly guide and the user reference manual, Hepro provides a two year warranty against defects in material and workmanship. Please address warranty complaints or other inquiries about the product to your supplier or importer. Always state the product`s serial number as a reference.

The product is designed, tested and produced in conformity to following regulations and requirements:

NS-EN 12182 "Technical aids for disabled persons."
93/42/EØF "Equipment class 1, marked **CE**

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0. General

The documentation covers the model *Gripo Alu*

0.1 Short product description

Gripo Alu is classified in NS-EN ISO 9999 as a medical device and within the product group 180806, and is defined as a TELESKOPIC POLE to carry support devices.

The pole is tested according to EN 12182 and approved for a horizontal load of 100 kg on the middle of the pole with maximum length 3,0 meter.

It is produced in the materials of aluminum and plastic and intended for clamping between the floor and ceiling of any room where the ceiling and floor have enough strength to withstand a point load of 100 kg.

In each end of the pole there is a plate-shaped end plate with a friction ring installed.

The force between the plates is maintained by a gas spring with an average pressure of 100 kg. This makes the pole possible to be installed without use of any form of screw or nail connection, causing perforation of floor or ceiling, and the dismantling of the bar leaves no marks.

With support of different accessories the pole can be adapted to many different pole use situations.

The pole can be used in rooms with headroom from 2,1 meter to 3,0 meter, and it is delivered in only one model in which the aluminum tubes are in the colour nature aluminum, and all plastic parts in black colour.

0.2 Safety Provisions

The installation of the pole has to be done by a trained person or by one who has set himself thoroughly in the assembly instruction.

0.3 Warning

- The product should not be adopted before this user reference manual has been carefully read.
- All kinds of support devices may involve danger if incorrect assembled or wrongly used.
- If the pole indicates any sign for loosening, it shall not be used and help be called.
- The pole must not be installed in rooms with headroom exceeding the approved or be placed where there can be any risk for pinching.
- If the red warning sign is visible, the assembly is wrong and the pole **must not be used**.

1.1 User Manual

1.1.1 Installation and assembly

TEST BEFORE INSTALLATION

Beforehand the ceiling should be examined with regard to strength and opportunity for placement of the pole at the desired location. At plate-covered ceiling the pole should preferably be placed directly under the beams or nailing strip to prevent plate damage. If the ceiling is made of concrete, the pole can be placed anywhere. If the wallboard is made of gypsum or other weak material, The Top plate Big has to be used, or the ceiling has to be reinforced by for instance using a more solid wallboard between the pole's top plate and the ceiling.

INSTALLATION

The pole is delivered with a fixed base plate and loose top plate.

1. Set top plate in place.
2. Position the pole in a suitable place with the base plate flat against the floor.
3. Pull out the foot pedal.
4. Rotate the inner tube clockwise so it want slide down by it's own weight. The extend the pole till the top plate reaches the ceiling by pulling the inner tube out of the outer tube.
5. Close the quick release.
6. Press down the foot pedal.
7. Check that the red mark is no longer visible. If not, go back to point 4
8. If the pole is tilted, pull out the foot pedal and adjust it vertical and press down the foot pedal again.
9. Installation of accessories by using the Universal link can now be done.
10. If the red mark still is visible, this may be the reason:
 - It is too big distance between the ceiling and the top plate when the rotation of the inner tube started.
 - The quick release could have been too loose. Tighten the nut a few millimeters.
 - The ceiling is too weak and is lifted by the force in the pole's gas spring.
 - The pole was ice-cold during assembly.

See also the Assembly guide illustrated with pictures.

1.1.2 Disassembly

Pull out the foot pedal and open the quick release. The inner tube can now be pushed down into the outer tube.

1.1.3 How to use

Gripo Alu can be used in many situations where there is a need for support. Use of equipment and methods will in cooperation with the user, the therapist and the supplier's qualified person be best taken care of.
See also the illustrated brochure.

1.1.4 Error Indications and check out of these

If the pole seems loose, out of plumb or there are marks on the floor or the ceiling that indicates that the pole has displaced, the assembly must be checked by a competent person.

If the red mark on the top of the inner tube appears, the pole must not be used before new installation is done and checked. This may indicate that the pole is either not installed correctly or the ceiling is not strong enough.

1.1.5 Inquiry by mistake

If an error occurs, using problems or suspected wrongly installation, please contact your supplier. By request, always give the serial number affixed to the pole.

1.2 User`s Guide

1.2.1 Information about the type and model

The user`s guide covers the following type and model:

GRIPO ALU

1.2.2 Technical specifications

Gripo Alu

DIMENSIONS

Description	Unit	Dimension.
Headroom	m	2,1 – 3,0
Inner tube	mm	Ø31 x 6,0
Outer tube	mm	Ø40 x 3,0
Average gas spring pressure	N	900
Top plate	mm	Ø290
Base plate	mm	Ø200
Max horizontal load on the middle of pole	kg	100
Product weight without accessories	kg	4,7
Max user weight	kg	150

MATERIALS AND COMPONENTS

Inner and outer tubes	Aluminium 6063 T6
Surface protection tubes	Eloxert
Gas spring	Stabilus LiftOMat
Top plate	Plastic PA6 GF15
Base plate	Plastic PA6 GF15
Tubes for accessories	Aluminium 6063 T6 Eloxert

1.2.3 Cleaning performed by user

Normal dusting and cleaning with wet cloth and soap is sufficient.

1.2.4 Maintenance performed by user

It is not intended the user to perform any maintenance.

1.2.5 Storage and retention when not in use

If the pole shall be stored for a long period, it has to be cleaned, covered and stored in a dry place.

1.3 Accessories

See separate brochure.

1.5 Changelog

Edit. 00	13.07.2009.	Tender documentation.
Edit. 01	18.11.2009	Updated for product introduction
Edit. 02	24.01.2011	Changes on page 5
Edit. 04	16.06.2011	Changes on page 1, 5 og 6.