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1. Introduction

We have the pleasure to deliver a Granberg Interior Wardrobe lift Butler, an electrically operated lifting and lowering system for installation in new or existing wardrobes.

The Wardrobe lift has got a clothes-rail, where clothes can be hung. With the push button box the motorized clothes-rail is lowered to a convenient height for handling the clothes.
The lift has adjustable width and there are two models.

Only authorized persons may use the Wardrobe lift!

Authorization means obligation to read and follow the instructions.

It is very important that you read and understands the instructions before you use the device.
If you have any questions - contact your supplier.

This Instruction manual shall be available for all concerned persons, be kept in a protected place and shall follow the product, if it is moved to another installation site or another house or apartment owner.

Correct use, operation, inspections and maintenance are decisive for efficient and safe work.

2. Declaration of Conformity with EU-directives

This product is CE-marked and is granted to conform to the basic safety and operation requirements, in accordance with de actual Machinery, EMC- and Low voltage Directives. A separate "CE-Declaration of Conformity" is available in section 12.

3. Intended use - Technical data

The Wardrobe lift Butler is intended to vertically lift and lower clothes on the clothes-rail to and from the wardrobe. The operation shall be indoors under normal housing conditions regarding temperature, humidity and lighting.

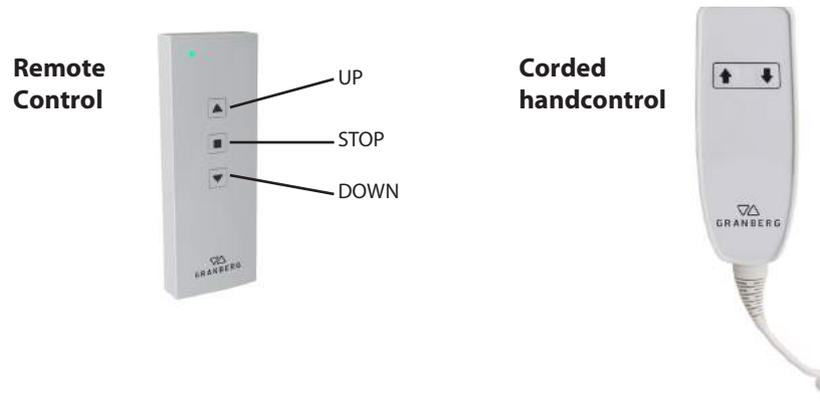
The Wardrobe lift must not be used in humid rooms.

Technical data, Wardrobe lift Butler:

Model:	720-06062	720-10062	722-06062	722-10062
Cabinet width, inside	545 - 868 mm	945 - 1568 mm	545 - 868 mm	945 - 1568 mm
Cabinet height, inside	Adjusted for the length of the clothes			
Cabinet depth, inside	Adjusted for the clothes			
Vertical stroke, max	704 mm	704 mm	1118 mm	1118 mm
Horizontal stroke, max	614 mm	614 mm	626 mm	626 mm
Machine height, vertical arm	695 mm	695 mm	710 mm	710 mm
Machine height, lowered arm	854 mm	854 mm	675 mm	675 mm
Time for a lift or lowering stroke, approx	15 sec.	15 sec.	24 sek.	24 sek.
Mains supply	100-240VAC, 50/60Hz, 2.0A	100-240VAC, 50/60Hz, 2.0A	100-240VAC, 50/60Hz, 2.0A	100-240VAC, 50/60Hz, 2.0A
El. protection class	IP 20	IP 20	IP 20	IP 20
Max no. of full work cycles per hour	6	6	6	6
Weight	12 kg	12 kg	14 kg	14 kg
Max load on the clothes-rail	30 kg	30 kg	30 kg	30 kg
The noise pressure is less than	70 db(A)	70 db(A)	52 db(A)	52 db(A)



4.1 Operate



4.2 Safe use

The Wardrobe lift is provided with safety arrangements in order to prevent and avoid damages and accidents. It is however still very important that the operator is well instructed in how to install and operate the Wardrobe lift.

- Only use the Wardrobe lift for its intended purpose, i.e. storing of clothes.
- The operation and use must be made in such way that there is no risk for damages on persons and property.
- The Wardrobe lift may only be operated by persons who have read and understood these instructions, and are authorized to use it.
- Be aware of that you as an operator are responsible for that nobody is damaged.
- The Wardrobe lift and the work area must be in proper condition. The Wardrobe lift must not be used if any fault has appeared which influences the functions or the operation safety. It shall also not be used if it has been repaired, altered or adjusted without permission of a responsible person.
- Make sure that the Wardrobe lift is installed on firm, flat and absolutely vertical walls with sufficient mounting details, enough for the total weight. Competent persons shall carry out the installation work.
- The operator shall have a clear view of the hazardous parts of the Wardrobe lift, the cabinet and the area around it all the time when operations are taking place.
- Do not touch any part of the lift when operating it. Only press the button for desired motion direction.
- Do not put hands, arms, or any other part of the body or any object in the lifting device when the Wardrobe lift is brought from the parking position. The parking position means when the Wardrobe lift is fully raised and brought to the wall, i.e. at the top level.
- The wardrobe door shall be fully open when the Wardrobe lift is operated.
- Keep in mind that when the Wardrobe lift has left the parking position, the risk increases to get damaged by the lift or the open door.
- Do not lower the Wardrobe lift unless the space below it is free from persons or obstacles.
- Observe the trapping risk between the Wardrobe lift and the wardrobe walls.
- Only stable and securely loaded items may be handled. Hangers must be suitable for the clothes, and in good condition.
- Never let the Wardrobe lift come in contact with adjacent objects.
- Alterations of the Wardrobe lift that influence the operational safety or the functions are not allowed.
- Decals and markings must not be removed or made illegible.
- Do not overload the Wardrobe lift.
- Use safe and sufficient lifting methods when handling clothes to and from the Wardrobe lift. In particular beware when handling heavy items, and clothes with dangerous content or sharp parts, such as needles.
- The Wardrobe lift shall regularly, once a year, be inspected in order to prevent accidents.
- Applicable Building and Safe use Regulations must be complied with.
- It is forbidden to stay in the wardrobe, to hang on the Wardrobe lift or to use the lift for lifting persons.
- Do not use the Wardrobe lift as a lifting jack, e.g. for lifting things from the floor.
- Do not use the Wardrobe lift in a potentially explosive environment.
- When the operation is in a public location, particularly when children can enter the work area, the operator shall make satisfactory arrangements to prevent persons from entering the hazardous area when the lift is being operated, or it has been lowered from the parking position, e.g. by means of blocking the work area or by means of adding protection devices.
- During inspections, service and repair work there shall be no clothes on the lift.
- Competent persons only must carry out installation, service and repair works.
- Only Granberg original spare parts shall be used when replacing any parts. Our warranty commitment can otherwise be invalidated.

4.3 Load distribution and side forces

Note that the max. rated load 30 kg means that the load is distributed over the clothes-rail.

Point loads are not allowed.

Basic loading requirements:

* **The load is distributed over the entire clothes rail.**

* **Horizontal forces are not allowed.**

Horizontal forces can appear, for example, when pressing onto the Wardrobe lift or the load.

It is difficult to estimate the size of the actual horizontal force, so utmost care must always be taken.

Further to the incorporated safety arrangements additional safety actions may be required on or at the Wardrobe lift.

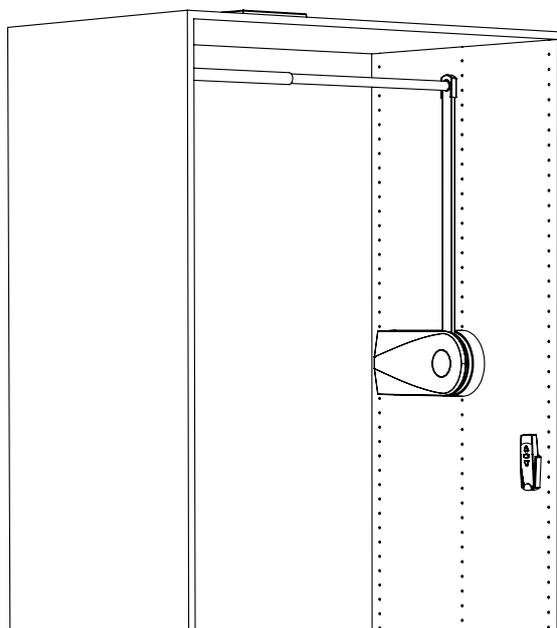
Discuss suitable actions with your Granberg representative or with the health and safety inspection.

We recommend that a Risk assessment in accordance with the Machinery Directive shall be made for the actual working conditions.

4.4 Actions after use

The Wardrobe lift shall after use be left fully raised to the top level, the parking position.

Switch off the main switch or take out the electric plug if unauthorized use can occur. To prevent unauthorized use it can also be possible to place the push button box inside a lockable cabinet.



4.5 Cleaning

In its use in a house the mechanism can be exposed to dirt. As the Wardrobe lift contains electrical components it is very important that cleaning is made according to this instruction.

WARNING!

*** The Wardrobe lift must absolutely not be connected to the electric supply when cleaning is carried out.**

*** The Wardrobe lift must absolutely not be rinsed with water!**

Care instructions:

The Wardrobe lift is cleaned with lukewarm water and a non-scratching detergent containing soap or similar. Use a Wettex swab or similar. After cleaning the surfaces shall be dried to avoid lime deposits.

Scratching detergents or tools e.g. steel wool may not be used.

The wardrobe shall be cleaned and maintained in accordance with the manufacturers' instructions.

4.6 Maintenance

The Wardrobe lift is maintenance-free. Greasing and other actions are made during the manufacturing for the lifetime of the lift. From safety point of view however some components shall be inspected each year.

* Inspections, service and repair work shall be made by competent persons.

* Remove the objects from the Wardrobe lift before maintenance and repair works are made.

1. Run the lift down and up all the way to resp. end position. Check that it runs freely without trapping risks and jarring sounds. Check that it stops and stays in the lower resp. upper positions.
2. Check that the cables are not chafed, squeezed or breaking.
3. Check that the attachments are in proper order.

Accomplished inspections and repair works shall be specified in the service records in section 8.

5. Instructions for recycling

When the Wardrobe lift shall be re-used shall it must be cleaned, inspected and go through a full operation test before it is installed on the new site.

We recommend the machine to be sent to Granberg or to the Granberg distributor to get this done.

The machine is manufactured from re-usable materials or from materials that can be recycled.



6. Decals

Two decals are included in the instruction manual envelope, and these must be placed in the wardrobe.

The decal that explains that the wardrobe is specially equipped shall be placed close to the handheld control.



The Max. load decal shall be placed at the handheld control.



7. Warranty

In accordance with the warranty conditions Orgalime S 2000 the manufacturer will replace or repair all faults which depend on manufacturing or material faults and which appear within twenty-four (24) months from the delivery. For further details about the conditions, see Orgalime S 2000.

Note! Alternative warranty conditions may apply. See the Order Acknowledgement for actual conditions.

The warranty is only valid if inspections and maintenance is carried out in accordance with the instructions. This warranty does not cover the cost of normal maintenance, settings or scheduled adjustments as specified in the instructions. Also the labour costs for such actions are not covered by the warranty.

Damages caused by misuse or incorrect operation of the equipment means that the warranty would expire.

Before any warranty work is commenced by a customer Granberg must be contacted for analysis and approval. We do not accept to carry any warranty costs if the repair work has started without an agreement by us.

Do not return any parts that have been worn out during normal operation or accidentally damaged. Only return worn or damaged parts if it is considered that the fault is covered by our warranty conditions. In such cases, return the parts without delay, otherwise the right to replacement may be lost.

When returning parts always quote the details shown on the manufacturer's plate, i.e.

Type, manufacturing number, year

and describe the operating conditions for the machine.

Remember to quote name, address and telephone number for the appropriate contact person.

8. Service and Maintenance Records

Service & maintenance	Service & maintenance	Service & maintenance
Date: _____	Date: _____	Date: _____
Sign. _____	Sign. _____	Sign. _____
Remarks: _____	Remarks: _____	Remarks: _____
_____	_____	_____
_____	_____	_____
_____	_____	_____



9. Fault finding

The Wardrobe lift is designed and tested to achieve optimum operation reliability and long life, provided that the operation, maintenance and inspections are carried out in accordance with the prescribed instructions. If in spite of this a fault appears you can get guidance about what to do according to the faultfinding list below.

Remove the clothes from the rail before fault finding and repair work is carried out.
Fault finding, service and repair work shall be made by competent persons only.

If any problem remains after you have taken actions in accordance with the list below you must contact a competent technician or your supplier.

Symptom	Action
The machine does not move when a control signal is given.	Check that the installation is done correctly according to the installation instructions. Carefully check the left and right motor unit is connected to the appropriate plug on the control unit.
	Check that there is voltage to the control unit. A blue light on the control unit illuminates when power is applied.
	Check the batteries in the remote control. Battery: 1 x CR2032 (Not USA/Canada which has corded hand control)
	Disconnect power to the control unit in 30 sec. and reconnect.
	If none of the above works, contact your supplier.
Clothes rail stops when driving upwards	Check the maximum load. The clothes rail will stop to protect the motor if the clothes rail has more than the allowable load (30 kg).
Clothes rail can not run down but slowly upward.	There have been interruptions in the power supply to the control unit. Run the clothes rail all the way up to the top until it stops by itself. Now, the device is reset and can be used again.

10. Functional test

When repair work has been carried out on the Wardrobe lift a complete functional test with full load shall be made:
Run the Wardrobe lift down and up all the way to respectively end position. Check that it moves freely, without hindrance and jarring sounds. Check that no cables are jammed.



11. Spare parts list

If any component does not work or has broken, contact your supplier. Only Granberg original spare parts must be used when replacing any parts. Our warranty commitment may otherwise be invalidated.

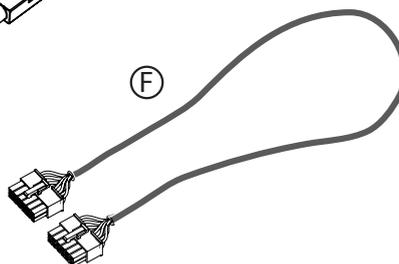
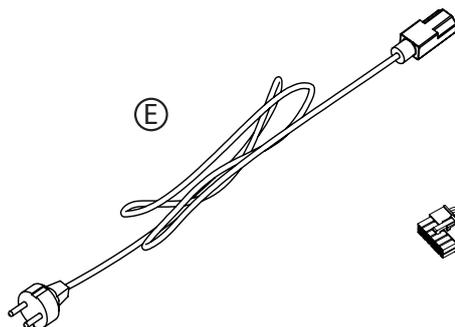
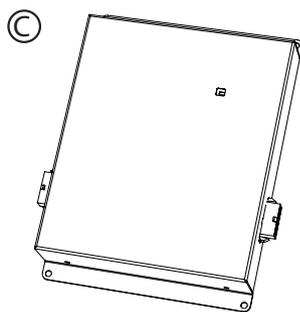
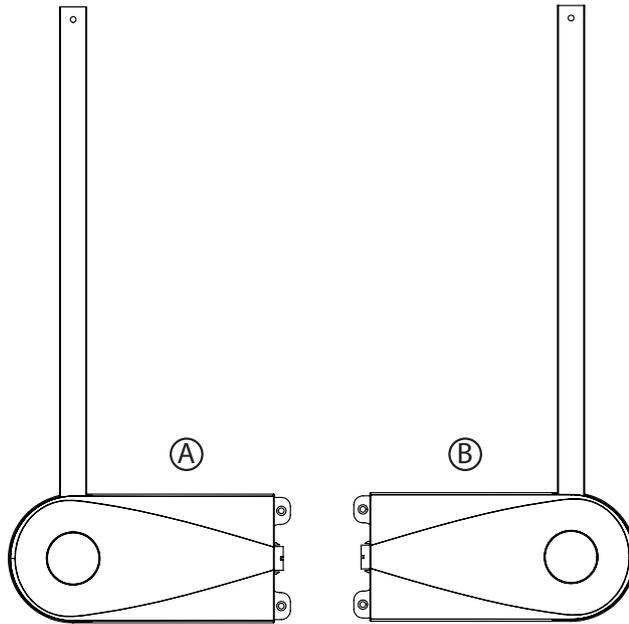
Return of spare parts:

Contact Granberg prior to any return of parts.

Do not return any parts that have been worn out during normal operation or accidentally damaged. Only return worn or damaged parts if it is considered that the fault is covered by our warranty conditions. In such cases, return the parts without delay, otherwise the right to replacement may be lost.

When ordering spare parts always quote the manufacturing number and type.

- A - Lift mechanism, left
- B - Lift mechanism, right
- C - Control unit
- D - Handheld control unit
- E - Power cable
- F - Motor cable



12. CE-Declaration of conformity

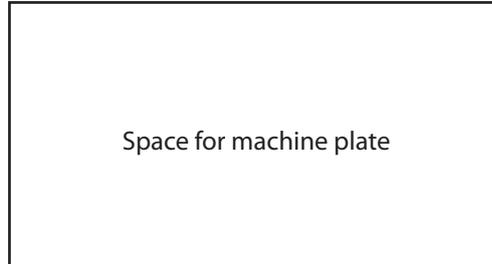
(According Machinery Directive 2006/42/EG, Annexe 2A)



Manufacturer: Granberg Interior AB
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declares under sole responsibility that the product:



to which this declaration relates, is in manufactured in conformity with the following harmonised documents, following the provisions of Machinery Directive 2006/42/EG, the Low Voltage Directive 2014/35/EU and the EMC Directive 2014/30/EU.

It also conforms to the following harmonised standards:

EN 60204-1:2006	Safety of Machinery - Electrical Equipment of Machines -General Requirements
EN ISO 13857:2008	Safety distances to prevent hazard zones being reached by upper and lower limbs
EN 349:1993+A1:2008	Safety of machinery. Minimum gaps to avoid crushing of parts of the human body

The undersigned is authorized to assemble the technical documentation.

Norrköping, 2017-06-19

Tobias Granberg, VD
Managing Director

