

USER GUIDE

This user guide applies to mechanical reel 230V or 400V with or without speed control

Type 10110/10111/10125/10130/10131/10135/10136/10140/10143/
10145/10146/10160/10161/10165/10166/10150/10151/10155/10156/
10170/10171/10180/10181/10183/10184/10185/10186/10240/10243/



Manufacturer	: Berg Hortimotive
Address	: Burg Crezeelaan 42A 2678 KZ De Lier Holland
Internet	: www.berghortimotive.com
Type	:
Serial number	:
Year	:
Weight	: 70kg
Voltage	: 230V / 400V / 50Hz
Motor capacity	: 0,37kW



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1. INTRODUCTION

1.1 GENERAL

Congratulations on making the right decision to purchase your Mechanical hose reel from Berg Hortimotive. You can now benefit from an excellent machine designed and Manufactured with the utmost care. You will gain most from your investment by strictly observing the instructions for safety, use and maintenance outlined in this manual.

Read this manual carefully before putting the pipe rail trolley into operation. The safety regulations, instructions and directions should be observed at all times.

Berg Hortimotive cannot be held responsible for direct or indirect damage should the user fail to observe the instructions and safety directions outlined in this manual. Berg Hortimotive liability is also nullified should you or a third party make any modifications to this machine or accessories without our written consent.

The conditions in relation to the supply of the mechanical hose reel are in accordance with the trade conditions filed at the Office of the District Court in The Hague on 15 August 1983, no. 83/106. A complimentary copy outlining these conditions will be sent to you upon request.

1.2 SUPPLIER INFORMATION

Please contact your Berg Hortimotive dealer should your mechanical hose reel appear to malfunction or have defects.

1.3 WARRANTY

Berg Hortimotive's mechanical hose reel carry a warranty period of 6 months.

The warranty is nullified if faults occur as a result of non-observance of the manual or abnormal use of the equipment. Warranty conditions are outlined in the Dutch Metal-Union directives and are available upon request from Berg Hortimotive

2. SAFETY

2.1 EXPLANATION OF SAFETY TERMS USED

Safety terminology

Danger: Indicates the possibility of severe injury that may lead to death should the instructions in the manual be ignored.

Warning: Indicates the possibility of injury should the instructions in the manual be ignored.

Be careful: Indicates possible damage to the machine should the instructions in the manual be ignored.

Caution: Indicates possible problems that may occur should the instructions in the manual be ignored

2.2 SAFETY REGULATIONS

Please pay careful attention to the following safety regulations and observe them closely at all times. Non-observance may endanger users working with the Mechanic hose reel.

DANGER

- ***Read the manual carefully. Observe instructions, safety regulations, etc, at all times.***
- ***Never exceed the maximum pressure of 40 bar.***
- ***Do not use a larger hose diameter as DN25.***
- ***Only use PVC hose with armament.***
- ***The mechanical hose reel should only be operated by persons who have received adequate training with regard to the hose reel and who have studied the contents of this manual.***
- ***Only use legally allowed pesticide.***
- ***Always use the prescribe pesticide which will be prescribe by the manufacturer.***
- ***Do not use the hose reel as winch for pulling of subjects.***
- ***Do not allow unauthorized people to walk in the room where the hose reel is used***
- ***Do not allow people and/or pets to walk on the path if the hose reel is present.***
- ***Before the commencement of operations of the mechanical hose reel you must check the remote control if it will react on other objects.***
- ***After you have used the hose reel, you have to clean the hose and the supply-pipe with clear water.***
- ***You only may wind off the mechanical hose reel manually. So it is forbidden to connect the hose on a moving object. Also it is forbidden to ride along the mechanical hose reel.***
- ***Before the commencement of operations of the hose reel you have to check drum direction, if it turns the wrong side you must change the wires.***
- ***If you have any doubts about the applicability of a certain stuff you have to contact Berg Hortimotive.***
- ***Pay attention by winding the reel, that the hose will be winded on the right way.***
- ***There must be enough light in the room where the hose reel operates.***
- ***Only use the mechanical hose reel for what it is make for.***
- ***Do not use multiple hose reels on one path.***
- ***All protective screens and coverings should be in place and closed during use of the mechanical hose reel.***
- ***The reparation of the hose reel only may done by special trained personnel.***

- ***Never carry out maintenance activities to the hose reel when it is being operated by another person.***
- ***The key should be removed from the contact after use.***
- ***Always turn the hose reel off during maintenance***
- ***Never clean the hose reel with water and/or a steam cleaner.***
- ***Check the reach off the remote control off the length of the hose. If the reach is not sufficient you have to contact Berg Hortimotive.***

WARNING

- ***The mechanic hose reel should only be operated if no other people are in the vicinity of the reel.***
- ***The mechanical hose reel should only be operated by persons who have received adequate training with regard to the hose reel and who have studied the contents of this manual.***
- ***Check the hose reel for faults on a daily basis.***
- ***Keep operation equipment and safety pictographs clean at all times.***
- ***Never leave the mechanic hose reel unattended.***
 - ***Unless the main switch turned into the "off-position". And the plug is out off the multiple socket.***
- ***Do not carry out any modifications to the hose reel without written consent from Berg Hortimotive.***
- ***Only use the accessories and parts supplied by Berg Hortimotive.***
- ***Remove obstacles, such as plant refuse, from the track before entering a path.***
- ***Never use the hose reel outdoors or on a public road.***

CAUTION

- ***Keep your work place tidy***
 - ***A cluttered work area can lead to dangerous situations.***
- ***Concentrate***
 - ***Ensure full concentration at all times when using the hose reel. Do not use the hose reel if not fully concentrating.***

3. INTENDED USE

3.1 AREA OF APPLICATION

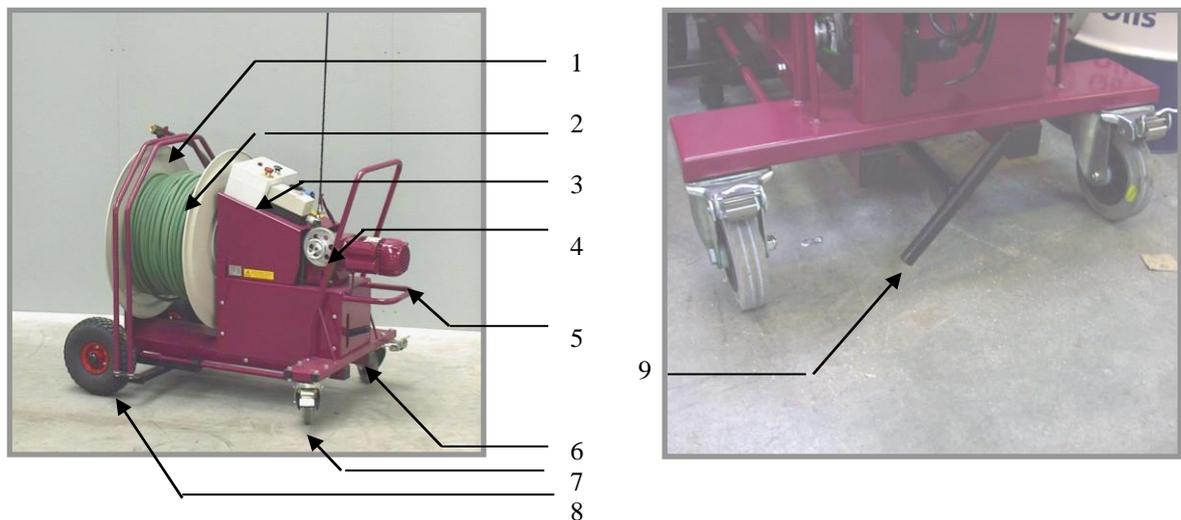
The reel should be operated by one person only, aged 16 or over, who has received adequate training with regard to the mechanical hose reel and who has studied the contents of this manual. And which is certified for the use of pesticide for harvest protection if these are spurted with the hose reel.

The mechanic hose reel is intended for use in the horticulture as an expedient to pour water and to sprit pesticide and not aggressive detergent.

The hose reels are used to draw the hose automatically in and to roll up during the job. Also drawing out the hose becomes more easy by using the hose reel.

The hose reels will be delivered without pump or spray part.

3.2 POSITION AND NAME OF PARTS AND CONTROL FUNCTIONS



1	Hose conductor	6	Speed control
2	Drum	7	Swivel castor
3	Operating panel	8	Pneumatic tire
4	Speed regulator	9	Hose blocking
5	Motor		

4. TRANSPORT

- Secure the hose reel during transport at all times and bolt the brake of the swivel castor.
- Ensure the hose reel is kept dry during transport.
- Cover the hose reel with waterproof material during transportation in a side less platform truck.

5. PUTTING INTO OPERATION

The mechanic hose reel is checked by leaving the factory of Berg Hortimotive. The hose reel should be inspected on all points outlined in section 5.1 before being put into operation.

5.1 INSPECTION BEFORE USE

The following aspects should be checked before putting the hose reel into operation.

Check the turn direction of the motor

Before putting the hose reel in operation check if the turn direction is correct. You can check this by switching the main switch (11) into the "0" position. Further unwind a few metres of the hose. Insert the plug in the socket (10) and set the main switch (11) to "1" and check if the emergency button (14) is unbolt. Press once on the start/stop button (15). If nothing happens do it again. The hose reel starts rewinding up the hose. If the reel not rewind set the main switch (11) to "1" immediately and remove the plug from the socket. Reverse the brown and black wires in the plug and repeat the test. The hose should now rewind properly.

Pay attention

You must change the wires into the plug and NOT the wires of the socket.

- Suitable extension cord
- Loose electrical connections
- Damage to cables.
- Damage to hose.
- Mechanical damage.
- Damage to operating components
- Visibility of safety pictographs.
- Damage and leakages.
- Presence of protective caps.
- Check the reach of the remote control to the length of the hose. If it is not sufficient you have to contact the Berg Hortimotive dealer.

6 APPLICATION

Make sure you are familiar with your mechanical hose reel and control functions. The mechanic hose reel should only be operated by one person with the minimum age of 16, who is certificated for using pesticide for harvest protection. The person who operates the hose reel must have received adequate training with regard to the hose reel and have studied the contents of this manual.

The mechanic hose reel should only be operated if no other people are in the vicinity of the reel.

Remove obstacles, such as plant refuse, from the track before entering a path. Keep the mechanic hose reel clean.

Before cleaning turn the hose reel off and disconnect the key. Only operate the mechanic hose reel after you have studied the previous pages and all your questions have been answered.

Remove the key from the contact after use.

Maintain the hose reel on a regular basis and keep it in a dry storage area if it is expected to be idle for an extended period of time.

Speed regulator.

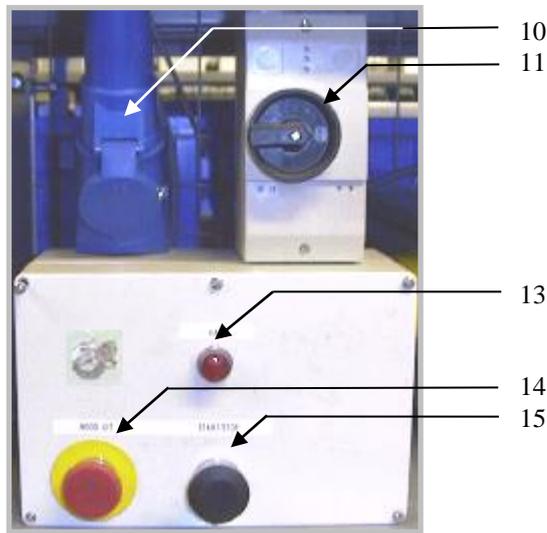
In this manual there has been talked about the speed regulator. The speed regulator controls the wind up speed of the drum. By taking a constant wind up speed the hose will, during winding up, getting bigger in size in diameters so the wind up speed will be faster.

Speed control

In this manual there has been talked about a speed control. The speed control controls the wind up speed of the drum.

Because the drum, by winding up, by adding the hose will cause a larger diameter. So the turn velocity off the drum needs to be changed. The speed control arrange this speed, so you will get a constant wind up speed off the hose.

6.1 OPERATION



10	Plug connector	14	Emergency push button
11	Main switch	15	Start/Stop
12		16	Start/stop remote control
13	Lamp on/off		

UNROLL THE HOSE

Put the reel with the drum before the path in which you will spray the pesticide.

If there is a blockade system on the hose reel you have to bolt the reel by turning the handle (9) beneath.

Connect the reel to an extension cord (10) which answers the installation prescriptions.

Turn the main switch (11) to "1".

Check if the emergency stop (14) is disconnected. Pull out the emergency stop until it will bolt.

How to adjust the wind up speed without speed control.

Then you can, with the speed regulator (4), adjust the wind up speed of the mechanic hose reel.

Turn the adjustment wheel (4) to the wind up speed wished.

How to adjust the wind up speed with speed control.

Then you can, with the speed regulator (4), adjust the wind up speed of the mechanic hose reel.

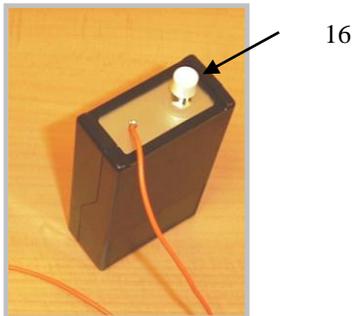
Raise the speed control (6) and turn the adjustment wheel to the speed wished.

Push the start/stop button (15) once, the reel is stand-by now and the lamp (13) will turn on.

Then the hose can be pulled out.

WIND UP THE HOSE

Pull the hose out until the length you wish, than push the start button (16) off the remote control.



Than the reel will wind up the hose, so you can squirt and spray the path.

By pushing the button (16) off the remote control again the reel will stop winding up the hose.

Winding up or unroll the hose you also can activate it with the start/stop button (15).

6.2 DISCONTINUATION

The hose reel should be stored in a dry frost-proof room when not in use for an extended period. The reel should be placed on a level surface. If the reel is likely to be out of use for a long time, it should be covered with a protective sheet, the ignition key removed, the main switch to "0" and disconnect the plug from the socket.

When next required (after being out of use for a long time period), the trolley should be inspected again as outlined in section 5.1 (inspection before use).

6.3 CLEANING

Remove plant refuse and sharp materials such as sand and dust. Clean the hose reel with a dry/moist cloth. Never pour water over the hose reel or clean with a steam or high-pressure cleaner as this may cause severe damage to the electrical circuit.

6.4 PROBLEMS/ CAUSES/ SOLUTIONS

Problem A	:	<i>The mechanic hose reel not react to the remote Control and to the start/stop button.</i>
Possible cause	:	<i>Emergency stop (14) is pushed in Plug (10) out off the socket Main switch (11) "off" Start/stop push button (15) not pushed in, the hose Reel is not stand-by. Glass fuse defect in the control box (F1 16AT 5x20) Other causes</i>

-
- Solution : ***Release emergency stop
Put the plug into the socket.
Put the main switch (11) on.
Start/stop button press once.
Replace fuse
Consult your dealer.***
- Problem B : ***The mechanic hose reel does not react on the remote control but it does react to the start/stop button.***
- Possible cause : ***The reel is out of reach of the remote control.
Battery of the remote control is defect.
(type 9V 6F22)
Loose Antenna***
- Solution : ***Makes the distance between the reel and the remote control smaller.
Replace battery
Check the antenna
Consult your dealer***

If there are other problems you have to contact your Berg Hortimotive dealer.

7 MAINTENANCE AND REPAIR

The mechanic hose reel is a product of extremely high quality. In order to safeguard this quality, the maintenance guidelines below should be strictly observed. Repairs and maintenance activities should be recorded in the maintenance logbook (see page 13). In addition, employers are obliged, at all times, that their means of labour should be in strict conformity with means of labour regulations. To ensure this, means of labour should be inspected periodically.

DAILY MAINTENANCE ACTIVITIES AND INSPECTIONS:

- Clean operating panel.
- Check for loose electrical connections.
- Inspect hose for possible damage
- Check wheels.
- Check breaks (swivel castor)
- Check for mechanical damage
- Check the visibility of, and for damage to, operating components
- Check the visibility of safety pictographs

WEEKLY MAINTENANCE ACTIVITIES AND INSPECTIONS:

- Clean wheels.
- Check the reach of the remote control to the length of the hose. If it is not sufficient you have to contact your Berg Hortimotive dealer.

MONTHLY MAINTENANCE ACTIVITIES:

- Grease pivot points.
- Oil lifting wheels and ball bearings
- Clean and oil drive chain
- Check hose for leakages.

ANNUALLY MAINTENANCE ACTIVITIES:

- Check welds for hairline cracks.

Contact your hose reel dealer immediately should a fault become apparent during one of the inspections mentioned above. Do not use the hose reel under these circumstances.

7.1 TECHNICAL MAINTENANCE

Repairs and maintenance on the parts mentioned below must be carried out by qualified professional recognised by the manufacturer:

- All work relating to electrical components and wiring.
- All work relating to the motor drive and reduction gear unit except for cleaning, readjustment or replacement of the chain and chain wheel.

8 TECHNICAL SPECIFICATIONS

Length x width	:	1000 x 800mm
Own weight	:	70 kg
Motor capacity	:	0,37kW
Voltage	:	230V / 400V / 50Hz

10 APPENDIX

10.1 Declaration of conformity

**Berg Hortimotive
Burg. Crezeelaan 42A
2678 KZ De Lier – Holland
+31 (0) 174 – 517700**

Declares herewith that the Berg Hortimotive:

Mechanic hose reel art.: 10110/10111/10125/10130/10131/10135/10136/10140/10143/
10145/10146/10160/10161/10165/10166/10150/10151/10155/10156/
10170/10171/10180/10181/10183/10184/10185/10186/10240/10243/

Serial nr. :

To meet the stipulations of the most recent 98/37EG Equipment Directive, changed lately by 98/37/EG.

To meet the following other EG-directives:

- Directive electro-magnetic compatibility, 89/336/EEG, changed into 98/79/EG
- Low tension directives 73/23/EEG, changed into 93/68/EEG

To meet the following standards:

- Directive pressure equipment, 97/23/EG
- EN 1050, safety of machinery. Principles of risk check. November 1996. CEN.
- EN 60204-1 safety of machinery. Electrical equipment of machines. Part1: General requirements, CENELEC
- EN 349, Safety of machinery. Minimum distance in order to prevent to get jammed of human parts of body.
- EN 294, Safety of machinery. Safety distance in order to prevent to reach the dangerous zones with the upper body part. June 1992. CEN
- EN 418, safety of machinery. Emergency stop supply, functional aspects.

De Lier, the Netherlands.

Date-.....-.....

Signature of management or other authorised representative.

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