



Horticultural Spraying Solutions

# Operation manual

Mechanical reel



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## Technical data

This guide applies to **mechanical reel 220V or 380V with speed control battery reel.**

Type data on rating plate:

	Mach. nr.: .....
	Type .....
	Max.: ..... bar
	Q: ..... L/min
	No. pump:..... 1/min
Year: .....	Weight: ..... kg

## Intended use

The mechanical hose reel with speed is intended for professional use in greenhouses and similar applications.

It must be operated by adults who have noted this user guide, have been fully instructed and who strictly follow the instructions for safe use.

The function of the mechanical reel is to rewind during spraying, at a pre-set speed, the hose which had previously been unwound by hand.

The speed control ensures that the hose winding speed remains constant.

The remote control (transmitter) can be used to start and stop the winding.

The fluid to be sprayed is supplied to the mechanical reel from a separate pump.

## Safety instructions

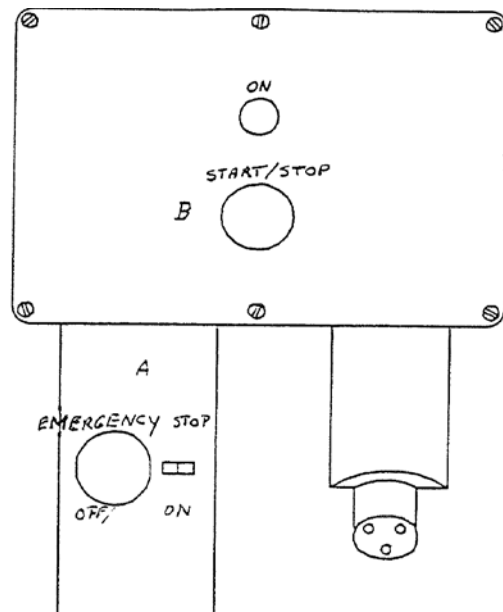
In the design and development of the mechanical reel, great attention was paid to excluding safety risk for users as far as possible.

The user must therefore observe the following measures:

- In accordance with the main safety regulations, various operating and warning stickers have been applied to the mechanical reel. Ensure that these remain legible and are not removed.
- Ensure that the mechanical reel is operated only by persons who have been fully instructed, have noted this user manual and who follow the instructions strictly. Make sure that the mechanical reel can not be used by unauthorized persons.
- The mechanical reel may be connected only to a drum protected against a pump pressure equal to or less than the maximum permitted working pressure of the mechanical reel.
- Ensure that the mechanical reel is never left switched on when not in use.
- Avoid using other transmitters on the same frequency as the remote control in the direct vicinity of the reel, as this could cause the mechanical reel to start or stop unintentionally.

- When starting the mechanical reel from the remote control, ensure that no one in the immediate vicinity of the mechanical reel can be taken by surprise when the drum begins to turn.
- Ensure that no part of the body can be trapped in the space between the drum and the frame when the drum is turning.
- Avoid damage and poor repairs to the electric cable; ensure that worn or damaged cable is replaced by a specialist.
- If an extension cable is used, this must be fully unwound from the drum and have sufficient diameter in relation to its length and the power consumption level.
- The fluid to be sprayed may contain toxic, harmful or irritating substances. When operating the mechanical reel, the safety measures relevant to the medium must be taken into account.
- During and after use, keep the mechanical reel as clean as possible to prevent damage and/or corrosion by reactive substances.
- Ensure that the protective cover and protective panels are fitted and properly attached when the mechanical reel is installed.
- Repairs to the mechanical reel must be carried out by qualified persons.

## Control panel



## Check direction of rotation of motor

Only for 380V design.

- Set main switch (A) to "Off".
- Unwind a few meters of hose.
- Insert the plug in the socket and set the main switch (A) to "On". If nothing happens, press the start/stop switch (B) once. The hose should now rewind.

**If it does not, set main switch (A) to "Off" immediately and remove the plug from the socket.**

Reverse the brown and black wires in the plug (from L1 to L2 and from L2 to L1) and repeat the test.

The hose should now rewind properly.

## Operation

- Set the speed control on the reduction gear unit to the lowest winding speed.
- Set the main switch (A) to "Off".
- Insert the plug in the socket.
- Unwind around 5 metres of hose.
- Set the main switch (A) to "On".
- If the reel begins to turn, immediately press start/stop switch (B) once.
- Check the function of the transmitter.
- Set the winding speed via the speed control on the reduction gear unit.
- By raising the handle on the front of the reel, you can release the tension on the belt, after which the pulley can be set to the required speed.
- When the handle is released, the belt is tightened and the speed control begins to work.
- Move the reel to the area to be sprayed.
- Unwind the hose to the required length.
- Start rewinding by pressing the transmitter button once.
- Switch off by pressing the start/stop button (B) once, setting main switch (A) to "Off" and removing the plug from the socket.

## Maintenance

To ensure problem free use of the mechanical reel, regular maintenance is required. We recommend carrying out maintenance at least once per month.

- Ensure that the mechanical reel is switched off. Always remove the plug from the socket first.
- Keep the mechanical reel clean.
- Clean the mechanical reel with a brush or with compressed air. Never clean the mechanical reel with a high-pressure or steam sprayer (this will damage the electrical circuits).
- Check and lubricate the guide chain (this is behind the side panels).
- Lubricate all rotating parts such as swivelling wheels and bearing blocks.

## Maintenance battery reel

- When you have to recharge or control the battery, do this always in a good ventilated room. Avoid open fire and sparks. (DO NOT SMOKE)
  - The liquid level of the battery needs regular control, when necessary charge with distilled water up to the sheets.
  - The battery has to be recharged regular.
  - The battery loader has its own user guide, consult it.
  - We recommend for the service life of the battery after you have recharged it, to recharge extra for about 60 minutes. Do this 4 or 5 times a year. For extra loading of the battery you switch on the loader on "Hand".
- ATTENTION!: For extra recharge the filler caps of the battery has to be removed.
- After recharge, always first unlock the -clip and second the +clip.
  - The battery loader always put away in a dry and dust free room.
  - The battery loader never expose to moisture (s.a. rain).

## Malfunctions

The mechanical reel does not respond to the remote control and start/stop switch:

Check:

- Is the reel plugged in?
- Is the main switch (A) "On"?
- Is the glass fuse in the control box (F1 3.15A 5x20) faulty?

The mechanical reel does not respond to the remote control but responds to the start/stop switch (B):

Check:

- Is the reel out of range of the transmitter?
- Is the battery in the transmitter low (type 9V 6F22)?
- Is the aerial loose?

The motor protection main switch (A) jumps out:

Check:

- Is the supply cable properly connected?

**If you cannot establish why the mechanical reel is not working: consult your supplier.**