

USER MANUAL

100proGreen Master Vario Drive Pro

Electric Drive Unit for Professional Lawn Care



1. Machine Overview

Thank you for choosing the 100proGreen Master Vario Drive Pro.

This professional electric drive unit is designed for use with selected 100proGreen lawn care machines such as the Master Lawn Spiker, Master Lawn Slitter 88 and Master Topdresser S75.

The Master Vario Drive Pro was developed with a strong focus on high performance, reliability and maximum operator comfort. Thanks to its emission-free electric operation, quiet running and ergonomic control, it represents a modern alternative to petrol-powered drive units.

The robust construction, powerful brushless motor and long battery runtime allow daily professional use even under demanding conditions – while significantly reducing physical strain on the operator.

1.1 Purpose and Intended Use

The Master Vario Drive Pro is designed to provide mechanical propulsion for professional lawn care attachments manufactured by 100proGreen.

It is intended exclusively for use with compatible 100proGreen adapters and implements.

Its main purpose is to support lawn aeration, slitting and topdressing operations while improving efficiency and operator comfort. Smooth speed control and forward/reverse drive significantly reduce operator fatigue and allow long working sessions without excessive physical effort.

Typical areas of use include sports fields, football pitches, golf courses and greens, public parks and municipal greenery, large private gardens, and professional landscaping services.

Use with non-approved attachments or adapters is not permitted and may result in damage, safety risks and loss of warranty.

1.2 Commissioning

The Master Vario Drive Pro is supplied fully assembled and ready for use.

Before first operation, perform a basic inspection of the machine and all control elements. Check the wheels, handle adjustment, emergency stop function and general condition.

Before initial use, ensure the battery is fully charged using the original charger. Insert the battery carefully into its holder and lock it using the key.

Switch on the system using the main rocker switch located on the side of the battery. Ensure that the emergency stop is released. Without releasing the emergency stop, the drive unit cannot operate.

Before starting work, attach the required machine using the appropriate original adapter. The adapter must be mounted strictly according to its mounting instructions. Always check that the connection is secure and locked.

After commissioning, perform a short test run at low speed on a small area to familiarize yourself with speed control, driving behavior and the response of the connected attachment.

2. Safety Instructions

Safe operation of the Master Vario Drive Pro is essential for protecting the operator, the attached machine and the drive unit itself. Always follow the safety instructions below during operation, maintenance and transport.

2.1 General Safety Rules

The drive unit may only be operated by trained and physically capable persons familiar with this manual.

Before each use, check the overall technical condition, battery lock, emergency stop, tire condition and secure adapter attachment.

The drive unit may only be used with original 100proGreen attachments and adapters. Any modifications or improper use are prohibited.

2.2 Safety During Commissioning and Adapter Connection

Always switch off the machine and remove the battery before mounting or removing adapters. The unit must be placed on a level, stable surface and secured against unintended movement.

After connecting an attachment, perform a visual check and a short function test at low speed. Do not start work if the connection is loose or unstable.

2.3 Operational Safety

Maintain a stable stance and a firm grip on the handle at all times. Operate the thumb throttle smoothly and avoid sudden acceleration or direction changes.

Direction changes between forward and reverse are only permitted when the machine is completely stationary.

Adjust driving speed to terrain conditions and the attached implement. Exercise special caution on slopes, uneven ground or near obstacles.

If unusual noises, vibrations or irregular operation occur, stop work immediately and inspect the machine.

2.4 Safety During Maintenance, Cleaning and Storage

All maintenance and cleaning must be performed with the machine switched off and the battery removed.

Do not use water, hose rinsing or high-pressure cleaners. Moisture can damage electronic components.

Store the battery separately in a dry, frost-free environment protected from mechanical damage.

2.5 Recommendations for Safe Operation

Wear sturdy work shoes, protective gloves and appropriate work clothing.
Never leave the machine switched on unattended.
Always switch off the main power after finishing work.

3. Technical Data

3.1 General Description

The Master Vario Drive Pro is a professional electric drive unit designed for intensive lawn care applications. It offers quiet operation, zero emissions and minimal maintenance requirements.

3.2 Technical Specifications

Device type: Electric battery-powered drive unit
Motor: Brushless electric motor
Torque: approx. 60 Nm
Battery: Lithium-ion, 20 Ah
Operating time: up to 120 minutes depending on load
Control: Thumb throttle, forward/reverse selector, two-speed mode
Safety features: Emergency stop, battery lock, electronic system protection
Tires: Pneumatic, recommended pressure 1.5 bar
Weight: approx. 43 kg including battery

3.3 Compatibility and Attachment Connection

Compatible machines:
Master Lawn Spiker
Master Lawn Slitter 88
Master Topdresser S75

Only original 100proGreen adapters may be used.

4. Transport, Handling and Storage

Before handling, always switch off the unit. Move the machine slowly and securely.
During transport, secure the unit using straps to prevent movement or tipping.

During the season, store the unit clean and dry in a protected area.
For long-term storage, clean thoroughly and store the battery partially charged in a warm, dry place.

5. Operation

5.1 Control Elements

The unit is operated using a thumb throttle for speed control. Direction is selected using the forward/reverse switch. Direction may only be changed when the unit is stationary.

Additional controls include a two-speed selector, emergency stop, battery status indicator, battery lock and adjustable handle.

Control Elements of the Master Vario Drive Pro

1. Throttle Lever:
Used to control the driving speed of the unit. The further the lever is pressed, the faster the drive unit moves.
2. Forward / Reverse Direction Selector:
This switch is used to select the desired driving direction.
3. Drive Mode Selector:
Allows selection between two driving speed levels depending on the working requirements.
4. Emergency Stop:
Used to immediately stop the machine in case of an emergency.
5. Battery Status Indicator:
This indicator shows the current charge level of the battery.
6. Battery Lock:
The battery is locked using a key to prevent it from falling out during operation.
7. Main System Power Switch:
The system is switched on using this rocker switch located on the side of the battery.
8. Attachment Locking Pin (Quick-Release / Locking Pin):
The attached implement is secured using a locking pin to ensure it remains safely connected during operation.



9. **Handle Adjustment:**

The handle can be adjusted to the preferred height or angle to ensure comfortable and ergonomic operation.



5.2 Starting Work

Insert and lock the battery, switch on the system and release the emergency stop. Select direction and speed mode. Accelerate smoothly using the thumb throttle.

5.3 Ending Work

Release the throttle, stop the unit, switch off the system and clean the machine.

6. Maintenance and Care

Clean the unit after each use using compressed air or a dry cloth.

Do not wash with water.

Check tire pressure regularly (1.5 bar).

Inspect fasteners, controls and safety elements periodically.

7. Battery – Use and Storage

Use only the original charger. Avoid deep discharge and overcharging.

Protect the battery from impacts and moisture.

Store partially charged in a dry, warm environment. Dispose of batteries at authorized collection points.

8. Troubleshooting

If the unit does not start, check battery charge and lock.

If charging fails, check contacts and charger function.

For persistent issues, contact authorized service.

9. Warranty and Service Information

The Master Vario Drive Pro is covered by a 24-month warranty unless stated otherwise.

The warranty does not cover normal wear, improper use, unauthorized modifications or use of non-original accessories.

9.1 Final Provisions

Following this manual ensures safe, efficient and long-term operation.

Keep this manual for the entire service life of the machine.

10. Contacts



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