

Lawn Mower



Soft branches and grass mulching in passages by horizontal elliptical knives

The **Lawn Mower** is a specialized instrument designed for **mulching soft branches** – such as **young shoots trimmed** during seasonal maintenance – as well as **grass mulching** in **vineyards** and **orchards**.

To achieve **efficient** and **precise cutting**, the **Lawn Mower** is equipped with **five elliptical horizontal solid knives**, which ensure **uniform mulching** while maintaining a **clean plantation floor**. This design allows for **effective vegetation control**, improving **air circulation**, **soil health**, and overall **vineyard** or **orchard maintenance**.

100% Autonomous | 100% Electric

Features & Benefits



Frontal-Hinged Lawn Mower for Optimal Mulching

It is a **frontal-hinged attachment**, ensuring **optimal mulching efficiency**.

Unlike **rear-mounted Lawn Mowers** on conventional tractors, this design prevents **branches from being pressed into the soil** by the machine's **wheels** or **caterpillars**. As a result, branches remain in the **ideal position** for **proper mulching**, minimizing the risk of **fungal growth** and promoting a **clean, healthy plantation environment**.



Protective Amortization with Emergency Stop Function

The equipment is equipped with a special **amortization system** that ensures **smooth operation** by absorbing **vibrations** and **impacts**, protecting both the **mulching instrument** and the **base platform**.

Additionally, it features integrated **collision detection sensors** that immediately **stop operation** upon detecting an **obstacle**, preventing potential **damage** and enhancing **operational safety** and **durability**.



Unique Surface-Following Suspension

The **Lawn Mower** is equipped with a specialized **suspension system** that allows it to precisely adapt to **surface contours**, ensuring **smooth operation over uneven terrain**. This advanced design enables the **lawn mower deck** to follow terrain variations accurately, delivering consistent **mulching quality** while minimizing the risk of **instrument damage**.

Additionally, the **cutting edge height** of the knives can be adjusted directly from the instrument's **menu**, providing flexibility for different **operational needs** and **vegetation types**. This feature enhances **efficiency** and **adaptability**, making the **Lawn Mower** an optimal solution for maintaining **vineyards**, **orchards**, and other plantation environments.



Electric Drive for Consistent Performance

It is an **electrically driven attachment**, ensuring **consistent performance** and **efficiency**.

The **electric motor** maintains stable **RPM**, delivering a more **uniform** and **precise mulching process** compared to **hydraulic** or **mechanical alternatives**. This results in **superior mulching quality**, reducing the risk of unprocessed debris and improving overall **plantation maintenance**.





Classical Heavy-Duty Elliptical Cutting Knives for Precision Mulching

The Slopehelper Lawn Mower is equipped with **five widely available elliptical cutting knives**, strategically placed within the mower deck to ensure **overlapping cutting zones**. This design guarantees that no grass or branches are left uncut, delivering **precise** and **uniform mulching** across the entire working area.

Unlike conventional grass-cutting blades, elliptical knives offer a **dual-purpose advantage**:

- They efficiently **cut** and **mulch** grass, ensuring a **clean** and **well-maintained plantation floor**.
- They can easily **mulch soft branches** trimmed during the growing season, preventing **fungal growth** by shredding them instead of pressing them into the soil.

This versatile cutting system enhances **vineyard** and **orchard maintenance**, reducing **disease risks** while keeping the plantation healthy and well-managed.

Technical Specifications

DIMENSIONS	VALUE
Height	1412 mm
Length	1660 mm
Width	1302 mm
Weight	360 kg
WORKING DIMENSIONS	VALUE
Depth of lawn mower	80 mm
Cutting height	25-80 mm
Cutting width	1500 mm
Sound power level	60 dB
GENERAL SPECIFICATIONS	VALUE
Compatibility	SH.056 Slopehelper
Drive method	V-belt
Number of belts	2
Motor	Brushless motor - BLDC
BLADE SPECIFICATIONS	VALUE
Speed of rotation	1500-2500 rpm, selectable
Type of blades	MTD Genuine Parts 490-110-M116 Short Blade
Number of blades	5

