

# Laser Land Leveling Machine

This laser land leveling machine is designed for precision land grading in agricultural applications. The machine incorporates a hydraulically controlled blade guided by a laser leveling system to ensure accurate and consistent land leveling, improving irrigation efficiency and crop yields.



## ADDITIONAL IMAGES



## Overview

### Precision Laser Land Leveling

This laser land leveling machine is engineered for high-precision agricultural grading, essential for optimizing irrigation efficiency and maximizing crop yields. Utilizing an advanced imported laser system, it provides consistent and accurate soil leveling across varied terrain. The robust, tractor-towed design features adjustable working widths and hydraulic blade control to ensure reliable performance in diverse soil conditions.

## Performance Metrics

### Key Performance Metrics

**2.3 k/h**

Max Efficiency

**15 km/h**

Max Speed

**240 mm**

Max Digging Depth

## Technical Specifications

### Working Parameters

Parameter	Value
Working Width	2500/3000/3500 mm (Adjustable)
Required Power	88-120 KW
Working Stroke	500 mm
Working Inclination	10±2°

## Laser System

### Laser Control System

- Emitter/Receiver Model: LS526/LS709
- Imported Laser Technology
- Controller Voltage: 11-30V DC
- Automatic Leveling Angle:  $\pm 5^\circ$
- Signal Reception Angle:  $360^\circ$

## Hydraulics and Mechanical

### Hydraulic System

- Blade Lift Speed: e50 mm/s (Up)
- Blade Lower Speed: e60 mm/s (Down)
- Cylinder Settlement: d12 mm/h
- Hydraulic Pressure:  $16 \pm 0.5$  MPa

## Physical Characteristics

### Dimensions and Weight

Dimension	Value
Length	3000 mm
Width	2550/3050/3550 mm (Adjustable)
Height	3650 mm (Adjustable)
Total Weight	1500 kg

## Environment

### Operating Conditions

Temperature 5-40°C, Towed Configuration