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A Project By Metron International

LASER LAND LEVELER

د لیزر لینډ لیولر



KEY BENEFITS

- Save water upto 30%
- Increase yield upto 20%
- Lessen salinity and water logging problems
- Improve uniformity of seed germination
- Increase Fertilizer efficiency - Reduce Surface erosion
- Lessen area taken by ditches and dikes
- Improve efficiency of Farm Machinery
- Reduce labour requirements of irrigation by 35%

LASER LAND LEVELER finds applications in Agricultural, Survey and Site Mapping, and Construction. Precision land leveling is a pre-requisite in modern agriculture. Due to the acute shortage of water in various countries, land leveling becomes even more important with the use of LASER.

LAND LEVELING SYSTEM one can produce a highly plane soil surface. A properly leveled land will.



TRANSMITTER

APD-LL-700 Transmitter is the heart of Laser Land Leveling System that establishes a reference plane of light above the work area. The Beam of Light rotates 600 RPM & covers a working radius 300m. It is provided along with a 3M tall tripod.



RECEIVER

Omni-Directional device that detects the position of the laser reference plane and transmits these signals to the Control Box. These signals are processed to indicate the relative position of the Receiver with respect to the Laser Beam. The Receiver is used in all machine control applications such as Land Leveling, Drainage and Construction sites.



CONTROL BOX

This receives and processes signals for the Receiver. The Control Box displays these signals to indicate the blade's relative position to grade for either manual operation or provide automatic control interfaced with the Machine's Hydraulic System. It also provides output for driving solenoid valves.



UNIVERSAL LASER DETECTOR

is hand held and rod mounted battery operated receiver that locates the position of rotating laser beam. It indicates the position on LCD display with synchronous audible tones. It is used for the calibration of transmitter and field survey.

SCRAPER

is bottomless, extremely rugged, heavy duty construction soil scraper, made for rough and hard conditions suitable for 60-90 HP tractor for automatic laser land leveling. It has independent PTO driven hydraulic pump to operate the hydraulic system of the scraper controlled by solenoid valve assembly.



DETAILS	MODEL
Electrical Input (Transmitter)	AGM/LLL
Electrical Input (Receiver & Control)	12V DC
Electrical Connector	12V DC
Operating Temperature	Mil spec. C-5015
Environment	0 C to 55 C
Operating Range	100% moisture & dust proof
Level Accuracy	300 meter (Radius)
	+/- 3mm per 60 meter

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