

## ABOUT US

S3 Technics was established by the alumnus of IIT-Delhi and BITS, Pilani having over 25 years of experience in Manufacturing Automation. We are an ISO 9001:2000 certified firm with a history of successful development of SPMs for Industrial Automation, Laser Land Levelers for efficient agricultural practices and have recently set-up a fully automatic plant for production of commutators, furthering the Make in India initiative.

## ABOUT LASER LEVELER

A precision land levelling equipment that uses an electronically levelled rotating laser plane as reference with laser receiver, control box and hydraulic system to maintain the scraper blade edge parallel to a perfectly levelled laser plane, thereby filling the tractor driven bucket with soil from high spots and releasing that soil to low spots of the field.

### Benefits

Excellent drainage & uniform distributon of water over farm land

Saving in levelling & irrigation time

Uniform germination & growth of crop

Improved crop yield & reduced weed problems



Own a high quality  
yet affordable  
Laser Leveller that  
is Made in India for  
India



Contact Us For  
More Info

Instagram



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# LASER SAMTAL

By S3 TECHNICS

A precision land levelling equipment that reduces irrigation water requirement by up to 40%, improves crop yield & saves resources and money



www.s3technics.com



### Laser Transmitter LST600

A self levelling rotary laser mounted on a tripod stand. It forms an electronically levelled horizontal laser plane.

#### Key Specifications:

**Laser Diode:** <5mW ; 655nm

**RPM:** 600

**Self-Levelling range:**  $\pm 5$  deg

**Range:** Upto 1000m (dia)

**Accuracy:**  $\pm 1.5$ mm at 30m

**Slope Control:**  $\pm 5\%$  dual axis in manual mode (with remote)

**Operating Temperature:** -10C - +60C

**Water Resistant:** IP55

**Power:** via Power Bank



### Laser Receiver LSR360

Mounted on tractor-driven bucket over a mast. It detects the laser beam and provides high, low, on-grade signal to control box as per required field level set beforehand.

#### Key Specifications:

**Reception:** 360 deg

**Capture height:** 200mm / 8"

**Power:** 12VDC from tractor battery

**Body:** Shock resistant, polycarbonate, moulded aluminum

**Clamp Capacity:** 25-45mm

**Operating Temperature:** -10C - +60C

**Water Resistant:** IP55

### Control Box LSCB

Brain of the system, it processes the low/high signal from receiver and controls the solenoid valve accordingly to move bucket scrapper up/down through the hydraulic cylinder.

#### Key Specifications:

**Connectors:** Military grade

**Switches:** Water-proof & dust-proof

**Power:** 12VDC from tractor battery; 10A current (max)

**Display:** Day visible LEDs

**Clock:** Controllable timer for timing of work

**Operating Temperature:** -10C - +60C



### Survey Receiver

Used to determine the height at which tractor mounted receiver should be set. Optional in general operations.

#### Key Specifications:

**Reception:** 180 deg

**Capture height:** 50mm / 2"

**Power:** 9V battery

**Body:** Moulded Plastic

**Clamp Capacity:** 70mm

**Operating Temperature:** -10C - +50C

**Water Resistant:** IP55



### Case

The Transmitter with accessories and Laser Receiver are packed together in a sturdy case. This ensures protection of critical electronics.

**Outer Material:** Plastic

**Inner Material:** Foam



### Hydraulic System

Designed to automatically adjust the scrapper blade and level the land as per signal from control box. Consists of a hydraulic cylinder and solenoid valve.

#### Key Specifications

Double acting Cylinder

**Capacity:** 2.2T @ 50bar

High temperature seals, 12V operated direction control valve, hydraulic hoses and couplers

### Power Mast

A Special feature of S3 Laser Land Levellers. Electrically operated mast enables quick and accurate setting of receiver providing improved productivity.

Operated via control box. A screw jack mechanism for precise vibration proof setting. Movement from DC motor



## S3 BUCKET SCRAPER MODELS



### Sports Model

- 7 Feet Wide
- Double Axle
- Four Tyres
- Power Mast Fitted
- 700 Kgs(approx.)
- Min. tractor req. 55HP
- 6-16 tyres with taper roller bearing hubs
- Minimal bubbling on hard soil



### Burfi Cut Model

- 7 Feet Wide
- Single Axle
- Four Tyres
- Power Mast Fitted
- 630 Kgs(approx.)
- Min. tractor req. 55HP
- 6-16 tyres with taper roller bearing hubs
- Minimal load on tractor



### Double Bend Model

- 2m Wide
- Single Axle
- Two Tyres
- Power Mast Fitted
- 600 Kgs(approx.)
- Min. tractor req. 50HP
- 6-16 tyres with taper roller bearing hubs

## FEATURES OF S3 LASER SAMTAL

Manufactured in India



Lifetime support & service

Electrical Power Mast for greater accuracy

Easy set up & user-friendly design