When you’re ready for the next step…

AGS Agriculture GPS+ System

The AGS-100 single bucket and AGS-200 dual bucket control system takes precision land leveling beyond the limits of laser control. No more drift, virtually endless range, and so simple to use that you’ll start increasing productivity on day 1. Everything is controlled from the operator-friendly AGS-C control box. Survey the field, create a cut/fill field design map, and begin grading without leaving the cab! If desired, the survey data can be saved to a CompactFlash® card for more detailed farm design work with the new AGS-300 PC office software package. Best of all, the AGS-C control box is not only compatible with your existing Topcon laser system, it’s field upgradable so you will be able to keep up with future innovations in all your precision farming applications.

AGForm-3D Field design software

AGForm-3D is the perfect field design software to accompany your AGS Agriculture GPS System. AGForm-3D lets you survey, view, and design the existing field to suit your needs, and it’s quick and easy to transfer site survey files between your computer and the AGS-C control box. With AGForm-3D on your laptop computer and the HiPath 1500 precision GPS receiver, you have a completely wireless AG system. Use AGForm-3D to save existing field contours and profiles, and then design the field as a single plane or break it into as many sections as needed.

- Easy to use, multiple format views of design & mining profiles / contours
- Minimize yardage by creating field sections
- Powerful tools let you add roads, ditches or sections of any shape
- Sub-region calculation tools help determine balance areas

When it’s your time to put the latest technology to work in your fields, it’s time for Topcon.

Topcon offers a laser control system perfectly suited to your application and budget

- RUGGED, RELIABLE, HIGH-VISIBILITY CONTROL BOXES
- EASILY UPGRADEABLE
- MODULAR DESIGN FOR “PLUG AND PLAY” FUNCTIONALITY
- WORLD’S MOST ADVANCED LASER TRANSMITTERS AND RECEIVERS
- COMPLETE INSTALL KITS PROVIDE EVERYTHING YOU NEED
Topcon’s modular approach is unique in the industry. With Topcon, the components you purchase today will work seamlessly with Topcon components you purchase tomorrow. And although the components will be a perfect fit for your current machine and application, they’re also portable and flexible so you can use them on equipment you own.

Whether you start with manual laser indicator or automatic laser controller, your Topcon system will perform day in and day out, ready to grow as your needs grow.

Four levels of Laser Control Systems to fit your needs:

**Dual Control**
- Topcon’s LS-1644 Control Box offers an easy to use operator’s interface with the capability of automatically controlling elevation on two scrapers independently, or slope and elevation on a single scraper. Use dual rigid masts on your scrapers for an economical solution, or a combination of the 9164 Control Box with TM-1 survey masts and flexibility in survey operations. A remote switch box option puts auto/manual control or other functions at the operator’s fingertips for optimum system control.

**Economy Control**
- Survey function adds, then averages elevations
- Tough, durable environmentally sealed switches
- Bright 3-color LED grade lights
- Dial grade knob with 01’ detent increments

**Clear, easy-to-follow grade indicate**
- Mounts in the cab for easy reference
- Compatible with LS-B2 and LS-B4 laser receivers
- Sets any of four on-grade accuracies on receiver, remotely
- Economical

**Indicate Systems**
- Grade lights on Topcon’s indicate system show high/low/on-grade indication for manual grade control. Using Topcon’s LS-B2 and RD-2 infra-red remote display system, grade indication is displayed in the cab wirelessly.
- The LS-B2 features four operator selectable levels of on-grade accuracy (deadband) for rough or finish work.
- The LS-B4 also features bright LED indication for use without the remote display.
- The LS-B2 can easily be moved from machine to machine, and can be used with the automatic systems listed above.

**Topcon’s modular approach is unique in the industry.**

**Topcon module**

It’s time.

Whether you’re looking for automatic or indicate control Topcon manufactures the World’s most advanced, easy-to-use operator interfaces.

**Fully automatic, clearly superior**
- It’s obvious from the first time you use them. Topcon’s System Five is the easiest-to-use grade control interface available. Grade and slope are displayed in large, backlit characters, with details like slope being displayed from the operator’s point-of-view.

**9164 Dual Function**
- Reliable, accurate survey and leveling interface for dual function automatic control, elevation on two scrapers, or elevation and slope on a single scraper. Perfect for surveying, grade verification and controlling.

- **Unique multiple elevation offset capability**
- **Fast, smooth proportional control compatible with OEM tractor controls**
- **Hydraulic control adjustment capable right from the box**

**9356 Single Function**
- Single function control box for elevation or slope on a single scraper
- **Automatic control for either elevation or slope on a single scraper**
- **Survey function adds, then averages elevations**
- **Tough, durable environmentally sealed switches**
- **Bright 5-color LED grade lights**
- **Dual grade knobs with 01’ detent increments**

**Laser Transmitters**
- RT-5SW “Smart” slope laser
  - The RT-5SW was built from the ground up with long range, high precision dual slope applications in mind. There isn’t another laser available that can deliver dual slopes this accurately or easily. It features a removable integrated RF remote controller ("RCH"/RF700") which is capable of two-way communication up to 300 meters in range. And with the RT-5SW’s unique Auto-Alignment feature, set up is fast and accurate!

  - World’s first 5 second repeatability system
  - Two-way, RF remote delivers 300 meters (1000’) of 500’p communication
  - 1200 meter (4000’) diameter working range
  - Auto alignment has range of up to 150 meters
  - Grade matching function
  - Electronic beam masking
  - Long battery life: 30hrs on Ni-MH rechargeable, 40 hrs on Alkaline
  - Dustproof/Waterproof, rugged design

**Control Boxes**
- Whether you’re looking for automatic or indicate control Topcon manufactures the World’s most advanced, easy-to-use operator interfaces.

**Electronic mast and Proportional Hydraulics:**
- **TM-1 Electric Mast**
  - Tough, rugged design with shock mounted indicators
  - Millimeter adjustment for accurate grade control
  - Fast travel speed allows quick, accurate surveys.
  - Two models to choose from: 32” and 42” travel

- **A third connector for second scraper and valve outputs means only one cable is required between the tractor and scraper, even with dual scrapers.
- Operates with 12V or 24V systems**

**Slope Sensor – accurate, reliable slope control**
- You can rely on the Topcon’s unique self-leveling to provide stable and accurate grade.

- There are no delicate wires or breakers to worry about. That’s because Topcon combined the world’s fastest leveling system with patented Liquid Compensaton.

**One button operation**
- **High-speed self-Leveling**
- **1150’ (350m) radius operating range**
- **600 rpm rotation speed (perfect for grade checking and Machine Control applications)**
- **Uses rechargeable or alkaline batteries**
- **60 hours from rechargeable batteries**
- **120 hours from 4 “D” alkaline batteries**

**Machine Control Receivers**
- LS-B2 Laser Receiver
  - Mount your machine, select the accuracy, and go to work. No cords to trip or tear, just hours of uninterrupted production. The LS-B2 mounts directly to a pole on your bucket with an easy on/off locking system.
  - With an LS-B2 manual grade system, the operator can see at a glance where the cut & fill is and whether it should be.
  - Topcon’s System Five automatic systems.
  - **360° reading**
  - **4 selectable on-grade settings**
  - **Alkaline or rechargeable battery operation**
  - **Automatic built-in bright LED’s adjust to ambient light**
  - **Quick release clamp for fast setup**
  - **Advanced photocells for maximum accuracy**

**LS-B4 Laser Receiver**
- Use as a stand alone unit or as a plug-and-play addition to your Topcon System Five. Mounts quickly using the integrated handle/mounting bracket.

Get even more…
- Pair your LS receiver with a Topcon RL-H1A, H1S, or H2Sa laser, you’ll get time saving features like low battery and out of level indication right on the receiver. No more unexpected battery changes or working from an inaccurate laser.

Electronic mast and Proportional Hydraulics:
- **Hydraulic Interface**
  - The proportional control valve has been the Topcon standard since 1989. Dramatically reduce maintenance costs on your machine’s hydraulic system.
  - **Control to the center of deadband for tighter tolerances**
  - **Speed, offsets, and smoothness of the hydraulic controls are made directly from the cab**
  - **Topcon systems can control almost any valve on the market: proportional, Sauer-Danfoss, Servo, or even old “bang-bang” solenoid valves.**
**Laser Transmitters**

- RT-5Sw "Smart" slope laser
  - The RT-5Sw was built from the ground up with long range, high precision dual slope applications in mind. There isn’t another laser available that can drive dual slopes this accurately or as easily. It features a removable integrated RF remote controller ("RCh500") which is capable of up to two-way communications up to 300 meters in range. And with the RT-5Sw’s unique Antenna-Mounted feature, setup is fast and accurate!
  - World’s first 5 second repeatability system
  - Two-way, RF remote delivers 300 meters (1000') of RF communication
  - 1200 meter (4000') diameter working range
  - Auto alignment has range of up to 150 meters
  - Grade matching function
  - Electronic beam masking
  - Long battery life: 280h on Ni-MH rechargeable, 40 hrs on Alkaline
  - Dustproof/Waterproof, rugged design

- RL-H1Sa/RL-H2Sa low-cost slope lasers
  - Unmatched accuracy and repeatability in low-cost slope lasers, Topcon’s RL-H Series slope lasers far exceed the performance of competitive lasers. Using leveling mechanisms found in our market-leading survey products they mark the 3 arc second barrier for repeatability, and provide 10 arc second accuracy across their entire grade range.
  - World’s most accurate grade repeatability
  - 10 arc second accuracy across entire grade range
  - Easy-to-see LCD for clear, visible slopes.
  - Electronic beam masking
  - Adjustable rotation speed and Hi alert

- RL-H3A High-speed self-leveling laser
  - You can rely on the RL-H3A’s self-leveling to provide stable and accurate grade.
  - One button operation
  - High-speed self-Leveling
  - 1150’ (350m) radius operating range
  - 600 rpm rotation speed (perfect for grade checking and Machine Control applications)
  - Uses rechargeable or alkaline batteries
  - 60 hours from rechargeable batteries
  - 120 hours from 4 "D" alkaline batteries

**Machine Control Receivers**

- LS-B2 Laser Receiver
  - Mounts on your machine, select the accuracy, and go to work. No cords to rip or tear, just hours of uninterrupted production. The LS-B2 mounts directly to a pole on your bucket with an easy on/off locking system. With an LS-B2 manual grade system, the operator can see at a glance where the cut is and where it should be. Thinking of upgrading later? The LS-B2 is fully compatible with Topcon’s System Five automatic systems.
  - 360° viewing
  - 4 selectable on-grade settings
  - Alkaline or rechargeable battery operation
  - Automatic built-in bright LED’s adjust to ambient light
  - Quick release clamp for fast setup
  - Advanced photocells for maximum accuracy

- LS-B4 Laser Receiver
  - Use as a stand alone unit or as a plug-and-play addition to your Topcon System Five. Mounts using the integrated handle/mounting bracket.
  - 360° viewing
  - Multi-colored display
  - Alkaline or rechargeable battery option
  - Selectable on-grade accuracy
  - System 4 & 5 compatible

**Slope Sensor – accurate, reliable slope control**

- Control slopes up to 100%
- Provides control on scrapers and blades
- Provides feedback for scraper control
- Designed to work with cross slope

**Clear, easy-to-follow grade indicate**

**Control Boxes**

**Laser Transmitters**

- Fully automatic, clearly superior
  - It’s obvious from the first time you use them. Topcon’s System Five is the easiest-to-use grade control interface available. Grade and slope are displayed in large, backlit characters, with details like slope being displayed from the operator’s point-of-view. There’s a “walk-through” calibration feature, and even an on-screen help feature that displays operation information with the touch of a button. And the software is easily upgradeable.

- **9016 Dual Function**
  - Reliable, accurate survey and leveling interface for dual function automatic control, elevation on two scrapers, or elevation and slope on a single scraper. Perfect for surveying, grade verification and contouring.
  - Unique multiple elevation offset capability
  - Fast, smooth proportional control compatible with OEM tractor linkage
  - Hydraulic control adjustment capable right from the box

- **9256 Single Function**
  - Single function control box for elevation or slope on a single scraper.
  - Automatic control for either elevation or slope on a single scraper.
  - Survey function adds, then averages elevations
  - Tough, durable environmentally sealed switches
  - Bright 3-color LED grade lights
  - Dial grade knob with 01’ detent increments

**Indicate Systems**

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**Agricultural Laser Systems**

- **Land Leveling/Surveying/Water Management**
  - Electronic mast and Proportional Hydraulics:
    - Operates with 12V or 24V systems
    - Multiple mounting options for versatility
  - The proportional control valve has been the Topcon standard since 1989. Dramatically reduce maintenance costs on your machine’s hydraulic system.
  - Control to the center of deadband for tighter tolerances.
  - Speed, offsets, and smoothness of the hydraulic controls are made directly from the cab.
  - Topcon systems can control almost any valve on the market: proportional, Sauer-Danfoss, Servo, or even old “bang-bang” solenoid valves.
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