TRIMBLE Site Positioning Systems

The new Trimble® Site Positioning Systems give the contactor in site preparation, heavy highway, mining, landfill and waste disposal the ability to quickly resolve problems onsite…and the flexibility to complete any task with the right equipment. From initial site measurement to final as-built checks, when you need site positioning equipment that is productive, easy to use and gets the job done right every time, Trimble Site Positioning Systems are your best choice.

Trimble Site Positioning System Applications

- Site Control Operations
- Progress Volumes
- General Site Measurements
- Stakeout
- Grade Checking
- As-Built Site Measurement
- Wireless communication capabilities increase workflow efficiency by providing real-time data transfer between office and jobsite.

Trimble SCS900 Site Controller Software was designed from the ground up for contractors carrying out measurement and stakeout for earthworks, landfill cells, waste disposal and mining. This easy-to-use software helps you efficiently control and quantify site operations so you don’t need to rely on a contract surveyor for site measurements and stakeout requirements. It is easy to learn and can be used with Trimble GPS or total station positioning equipment to maximize investment in both hardware and software systems.

Additional Features of SCS900 Include –

- Real-time cut and fill maps
- Digital plans in the field – eliminates rolls of paper plans
- GPS position on the plan – immediately locate yourself on the map to interrogate the digital information from the plans
- Query the data in the model, elevations, cuts/fills, distances, areas, material volumes and more.

Trimble SCS900 Site Controller software runs on either the TSC2 or TCU controller along with a tablet PC depending on your preference. The TSC2 is a handheld controller while the TCU is a clip-on controller. Both control units offer integrated Bluetooth technology and optional integrated 2.4GHz radios for cable free operation when working robotically with a total station. Large hard disk storage, configured with 512MB memory capacity, 128MB RAM, ultra-fast processors and support of external storage devices, such as two compact flash card slots on the TSC2 controller, means you will never run out of storage space or processor speed when working with large data files.

Total Stations for Site Positioning and Grade Control Operations

Now with Servo, Autolock, Robotic, DR Reflectorless and ATS modes of operation, the powerful Trimble SPS730 and SPS930 Universal Total Stations satisfy all site measurement, stakeout, reflectorless measurement and grade control needs – all from one highly accurate instrument.
THE CONNECTED CONSTRUCTION SITE

An interesting thing happens when you connect your office, people and machines. Productivity jumps. Rework disappears. Cash flow improves. Profits soar. Only one company has the technology and experience to connect your site. The leader ... Trimble.

Performing earthworks smarter, faster and more profitably is critical to success in today’s highly competitive construction industry. You need to perform all parts of the job faster and more accurately than ever before. From estimating to completion, Trimble’s next-generation Grade Control Systems are truly revolutionizing the total construction process.

Fully Upgradeable

Trimble Grade Control Systems are flexible, fully upgradeable, and can be installed on machines from any manufacturer. Using the industry-standard Controller Area Network (CAN), you can easily add sensors and upgraded software to meet specific machine and application requirements. The upgradeable wiring harness is designed for plug-and-play flexibility, allowing you to upgrade the system from a single sensor control to a multi-functional GPS/GLONASS 3D solution.

Equip Your Entire Fleet

Whether you are using excavators for mass excavation, dozers or scrapers for bulk earthworks, motor graders for finished grading, or compactors for material density - the Trimble Grade Control Systems family has a solution to meet your needs. Our flexible and upgradeable GCS family can be installed on a wide range of machines—dozers, compactors, motor graders, scrapers, excavators and more. You can use a common platform across your entire fleet, while at the same time choose the best option for the machine and the application.

Trimble Ready™ Machines

Trimble has worked with leading machine manufacturers to reduce the effort required to install conventional and 3D grade control components. Today, Trimble Ready machines come pre-plumbed with wiring and brackets for common system configurations. This simplifies GCS installation and lets you easily move the system from one machine to another.
Trimble offers you the most complete line of Grade Control Systems. From laser or sonic based through to 3D, these rugged systems are easy to use, fully upgradeable and flexible enough to meet a wide range of application and jobsite requirements. Quite simply, there is no better solution to meet the challenges of today’s schedules and budgets. Gain a competitive edge and streamline your operations with the next generation of grade control systems from Trimble, the company that invented grade control.

**Faster Job Cycles**

Spend more time being productive and less time waiting for surveying and grade checking. With site plan and grade information displayed in the cab, operators can finish jobs faster with minimal supervision—even in dusty, windy or dark conditions.

**Lower Operating Costs**

Getting the job done right the first time eliminates rework. With design information at your fingertips, the need for stakes, hubs or stringlines is reduced. Through improved productivity, personnel and machine costs are also reduced. Plus, accurate grading helps you carefully control material usage.

**Flexible**

Perform a wide range of work, from mass excavation through to finished grade, on both large and small jobs. Trimble machine control products are designed to adapt to a variety of machines and jobsite applications.

**Return on Investment**

Trimble Grade Control Systems quickly pay for themselves—often on the first project! Faster completion, less rework, less staking, less checking, lower costs, and improved material yields all add up to a stronger bottomline for your company.
GRADE CONTROL SYSTEMS

Conventional Grade Control Systems...

TRIMBLE GCS300 AND GCS400 APPLICATIONS:

• Finished Grading
• Housing Pads
• Commercial Building Sites
• Sports Fields

Trimble GCS300 and GCS400 Grade Control Systems:
Single or Dual Elevation Control

The Trimble GCS300 Grade Control System is a single control system that uses the LR410 Laser Receiver to control the lift of the machine blade. Ideal for smaller construction projects, it is an excellent first investment in grade control. The Trimble GCS400 Grade Control System is a dual-control system that controls both the lift and tilt of the blade by connecting two LR410 laser receivers or one LR410 and an AS400 Slope Sensor to the system. By controlling both functions, the GCS400 allows the operator to control the material more accurately, especially across larger jobsites. Easy to set up and use, the GCS300 and GCS400 are designed primarily for use on dozers; however, they can be used on other machines.

Trimble productivity-enhancing grade control systems are extremely scalable and can be configured for just about any machine or job.

Conventional systems begin with a single laser receiver system, and progress through combinations of laser receivers, sonic tracers, angle sensors and rotation sensors.

TRIMBLE GCS500 APPLICATIONS:

• Road Maintenance
• Road Construction
• Sports Fields
• Embankments
• Road Ditches

Trimble GCS500 Grade Control Systems:
Cross-Slope Control

The Trimble GCS500 Grade Control System is a cross-slope control system designed to be used on motor graders for fine grading work. The system uses two AS400 angle sensors and an RS400 rotation sensor to calculate the cross-slope of the blade. The system allows the operator to select which side of the blade is controlled and switch sides on the return pass. Providing a high degree of flexibility, the AS400 has 100% slope capability making the system ideal for a wide range of applications, including cutting road slopes, ditches and embankments.
Trimble GCS600 Grade Control System: Cross-Slope and Elevation Control

The Trimble GCS600 Grade Control System is a highly flexible cross-slope and elevation control system designed to be used on motor graders for fine grading work. As with the GCS500, the GCS600 uses two AS400 angle sensors and an RS400 rotation sensor to calculate the crossslope of either side of the blade; the GCS600 additionally uses an LR410 laser receiver or an ST400 sonic tracer to provide elevation control. Using the ST400, the system allows for stringline, previous pass, or curb and gutter tracing. Using one or two LR410 laser receivers, the system can be used for fine grading of plane surfaces. The GCS600 system is ideal for applications with tight tolerances and finished grade work.

All Trimble grade control components have been designed for ease of use, quick setup and extreme durability to ensure the highest uptime and longest life possible in jobsite conditions.

Trimble GCS600 Grade Control System for Excavators

The Trimble GCS600 for Excavators is a depth and slope control system for excavation, trenching, grading and profile work. The system uses an AS300 Angle Sensor, AS310 Dual Axis Sensor and LC300 Laser Catcher to measure the relationship between the body, boom, stick and bucket to determine where the cutting edge is and should be, directing the operator to the desired depth and slope. Designed for both tracked and wheeled hydraulic excavators, it is ideal for earthmoving contractors looking for an economical and easy-to-use grade control system to improve their excavation productivity and profitability.

TRIMBLE GCS600 APPLICATIONS:

- Small-to-Large Housing and Building Site Pads
- Road Construction
- Highway Construction and Maintenance
- Runways

TRIMBLE GCS600 FOR EXCAVATORS APPLICATIONS:

- Mass Excavation
- Grading and Sub-surfaces
- Trenching, Ditch and Finished Slope Work
- Dredging
- Waterways

All Trimble grade control components have been designed for ease of use, quick setup and extreme durability to ensure the highest uptime and longest life possible in jobsite conditions.

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From bulk earthmoving through grading to finished material compaction, Trimble has a 3D grade control solution for your machine type and application requirements. Just select the appropriate 3D sensor option—GPS+GLONASS with or without laser augmentation, or the Trimble SPS730 and Universal Total Station.

**Mass Excavation**

The Trimble GCS900 Grade Control System is ideal for bulk earthmoving applications such as land reclamation, dam and reservoir construction, new infrastructure projects, landfills and waste deposits.

With GCS900, design information and live cut/fill indications are displayed in the cab, allowing excavation to be done in a safer, stakeless environment - even at night. The system provides real-time information for monitoring avoidance zones and simultaneously collects as-built data as the machine cuts to grade. With these capabilities, operators can keep tighter control over safety issues and see precisely where dirt is being moved on site.

Used on a dozer, excavator or scraper, GCS900 allows even lesser skilled operators to work faster, more consistently, and with less rework.

**Grading**

Using the Trimble GCS900 Grade Control System on a dozer or grader allows the operator to get to grade faster than ever, even with complex designs.

The on-board Trimble CB430 Control Box determines the position of each tip of the blade and compares it to the design elevation to compute cut or fill to grade. The cut/fill data is used to drive the valves for automatic blade control or is passed to in-cab lightbars that provide visual guidance to the operator.

Ideal for residential site prep and subdivision construction, single house pads or the entire neighborhood-project infrastructure can be constructed better and faster using GCS900.

**Ideal Configurations:**

- **Trimble GCS900 with dual GPS on an excavator**
- **Trimble GCS900 with single GPS on a dozer**
- **Trimble GCS900 with dual GPS on a dozer**
- **Trimble GCS900 with single GPS on a scraper**

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**Ideal Configurations:**

- **Trimble GCS900 with dual GPS on a dozer**
- **Trimble GCS900 with dual GPS on a grader**
- **Trimble GCS900 with the Universal Total Station on a dozer**
- **Trimble GCS900 with the Universal Total Station on a grader**
Compaction

Once grade is achieved, most earthworks projects require that sub-surface material is compacted to a target density for increased durability, stability, and load-bearing capacity. The Trimble CCS900 Compaction Control System enables the contractor to accurately control the compaction process, while reducing unnecessary passes that result in over compaction. The system achieves compaction density faster, more accurately, with less rework. The early detection of sub-surface material anomalies means that soft spots and hidden obstructions can be excavated and re-graded or compacted prior to the more costly phases of the construction process such as paving. Compaction results are recorded and stored for analysis and generation of documentation deliverables at the end of the project.

Finished Grade

The Trimble GCS900 Grade Control System allows the operator to achieve finished grade to millimeter accuracy with fewer passes. Trimble GCS900 is quite simply the market leading solution for fine-grading application. Used on motor graders and dozers, it is ideal for new road construction and widening, airport construction, fine grading for concrete pours and slab placement, and commercial site preparation requiring the highest accuracy. By maintaining tight tolerances every time, GCS900 results in higher quality work delivered to the client. Finished grade materials can be placed more accurately and in a shorter time period, keeping the material costs to a minimum and realizing better profits. With more confidence in the cost of operations and quicker completion to finished grade, the equipment owner is able to lower bids and gain more business in every phase of the project.

SPS930 Universal Total Stations—then use the same components across your entire fleet, through the life cycle of the project.

IDEAL CONFIGURATIONS:

- Trimble CCS900 with the dual GPS on a compactor
- Trimble CCS900 with the single GPS on a compactor

IDEAL CONFIGURATIONS:

- Trimble GCS900 with the Universal Total Station on a grader
- Trimble GCS900 with dual GPS and laser augmentation on a grader
- Trimble GCS900 with the Universal Total Station on a dozer
- Trimble GCS900 with dual GPS and laser augmentation on a dozer
**Trimble CB410 Control Box for Excavators:**

The Trimble CB410 Control Box has dual LED depth and slope indicators, a graphical backlit LCD display, and easy-to-operate toggle and pushbutton switches for fast, reliable setup and depth guidance. Used with the GCS600 for Excavators, the CB410 not only gives you a range of powerful features, but is specifically designed for unobstructed vision and excavator control.

**Trimble CB420 Control Box: The control you need for improved productivity!**

Featuring dual LED grade displays, a graphical backlit LCD display, easy-to-operate switches and pushbuttons, and the CB420 control box is upgradeable from the Trimble GCS300, through to the GCS600. Grade Control Systems. When used with the GCS300 and GCS600, the software provides the operator with a range of powerful features specifically designed for cross slope and blade elevation on motor graders.

**Trimble CB430 Control Box: Graphical Display for Conventional and 3D Grade Control**

Designed for use in harsh construction environments, the Trimble CB430 is a fully sealed, solid-state computing device with a large daylight readable graphical display and scratch resistant screen. Used with Trimble conventional or 3D Grade Control Systems, it is the most advanced in-cab control box on the market.

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**Trimble Sonic Tracers**

The Trimble ST400 Sonic Tracer mounted to the blade of the motor grader uses a physical reference such as curb and gutter, stringline, existing or previous pass as an elevation reference. Using a sonic tracer, the system can match curves and accurately get to grade in fewer passes. This reduces operator fatigue, saves material and reduces the need for grade checkers.

**Trimble Laser Receivers**

The Trimble LR410 Laser Receiver is fully linear and has smooth corrections the full length of the receiver. It is mounted to a mast on the blade and connected to the machine hydraulics to control lift to an accuracy of 3-6 millimeters (0.01 to 0.02 feet). In auto mode, the system uses the LR410 grade information to automatically move the blade up or down to the on grade position.
**TRIMBLE. The Leader in Grade Control Systems.**

Trimble is focused on driving your productivity at all stages of the construction process. Here are just a few of the reasons why Trimble should be your productivity partner.

**Better Satellite Positioning Up Time**
Trimble GPS+GLONASS systems are guided by the most powerful RTK engine on earth. Stronger signal acquisition from more satellites means you can run faster, longer and without interruptions and downtime.

**Construction Tough**
Trimble components have been designed to withstand the beating they can take on big machines and rough sites. More robust components mean less downtime and more productivity.

**Finish Faster**
Trimble positioning systems let you run at higher speeds without losing accuracy thanks to faster data transfer, fully linear receivers and faster valve response.

**Two Antennas Are Better Than One**
Trimble's patented dual GPS+GLONASS antenna system gives you exact course and blade position... not the estimated position.

**Smart Productivity**
Only Trimble offers the Smart GPS+GLONASS Antenna... an integrated GPS+GLONASS receiver and antenna designed to provide maximum portability, flexibility and accuracy.

**Make Every Operator Great**
The displays in Trimble Grade Control Systems are intuitive and simple to use... maximizing operator productivity.

**Easier and Faster Set Up**
Trimble systems set up easier and faster than zone systems, which means you can get the work started sooner.

**Future Ready, Now**
Trimble 3D grade control systems support modernized GPS and GLONASS signals and will track the GPS L5 signal when it becomes available. You won’t have to invest in new systems to take advantage of the latest signal capabilities.

### Trimble Total Stations
Trimble SPS Series Universal Total Stations can be used for even greater accuracy when performing fine or finished grading, with blade guidance to 2-5 millimeters (0.007 to 0.016 feet).

### Integrated Laser Receivers
When improved vertical accuracy is needed, the GPS+GLONASS systems can be enhanced with integrated laser receivers that can provide blade control to 3-6 millimeters (0.01 to 0.02 feet).

### Trimble Smart GPS+GLONASS Antenna
It’s “smart” because it contains an integrated GPS+GLONASS receiver, antenna, and isolation system all in a single, durable housing. It uses the advanced Trimble RTK engine for faster initialization times when satellite lock is lost and enhanced performance near obstructions.

### Trimble 3D Control Box
Trimble’s 3D control box comes with powerful software that puts the site plan in the cab. With a large, clear display and operator-defined view, it is the most advanced and easiest to use in the industry.

<table>
<thead>
<tr>
<th>Trimble System</th>
<th>Description</th>
<th>Machine Applications</th>
<th>Positioning Components</th>
<th>Applications</th>
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</thead>
<tbody>
<tr>
<td>TRIMBLE GC500: SINGLE GPS+GLONASS</td>
<td>Full 3D control system that measures the position and slope of the blade and compares that to design data</td>
<td>Dozens Graders Scapers</td>
<td>Slope and rotation sensors, Single Smart GPS+GLONASS Antenna, Rugged on-machine radio Control box</td>
<td>Roads/highways - rough grading, Large earthmoving projects - dams, reclamation, etc. Landfills/waste deposits Commercial/residential site prep - pads, grading for large slabs, etc. Land reclamation projects</td>
</tr>
<tr>
<td>TRIMBLE GC500: DUAL GPS+GLONASS</td>
<td>Full 3D control system that measures the exact position, very accurate cross slope, and heading of the blade</td>
<td>Dozens Graders Scapers</td>
<td>Dual Smart GPS+GLONASS Antennas Control box, Rugged on-machine radio</td>
<td>Roads/highways - railroads - rough grading, complex design Large earthmoving projects - dams, reclamation, etc. Landfills, waste deposits, projects with deep slopes Commercial/residential site prep - complex design Golf course construction</td>
</tr>
<tr>
<td>TRIMBLE GC500: DUAL GPS+GLONASS FOR EXCAVATORS</td>
<td>Full 3D control system uses two GPS+GLONASS antennas and solid state angle sensors to measure the precise position of the tip of the bucket</td>
<td>Excavators</td>
<td>Angle sensors, Dual Smart GPS+GLONASS Antennas Control box, Rugged on-machine radio</td>
<td>Roads/highways - rough grading Large earthmoving projects - dams, reclamation, etc. Landfills, waste deposits Commercial/residential site prep - complex designs Underground utilities Break water construction</td>
</tr>
<tr>
<td>TRIMBLE GC500: GPS+GLONASS WITH LASER AUGMENTATION</td>
<td>Single and dual GPS+GLONASS systems enhanced with laser augmentation to improve vertical accuracy for complex design surfaces such as super-elevation grading</td>
<td>Dozens Graders</td>
<td>Single or dual Smart GPS+GLONASS Antennas Laser receiver Control box, Rugged on-machine radio</td>
<td>Roads/highways - railroads - rough, finished grading Airport construction – runways, tarmacs Commercial/residential site prep - complex designs, slabs, pads</td>
</tr>
<tr>
<td>TRIMBLE GC500: UNIVERSAL TOTAL STATION</td>
<td>For applications requiring extreme accuracy, or for jobs where GPS is not the ideal solution because of overhead obstructions</td>
<td>Dozens Graders</td>
<td>Single on-machine active target, Control box, Rugged on-machine radio Universal Total Station</td>
<td>Roads/highways - railroads - rough, fine grading Airport construction – runways, tarmacs Commercial/residential site prep - complex designs Subdivisions - pads, local infrastructure Golf course construction</td>
</tr>
<tr>
<td>TRIMBLE GC500: GPS+GLONASS FOR COMPACTORS</td>
<td>3D compaction control system using single or dual smart GPS+GLONASS antennas that combines finished grade quality control and analysis with advanced compaction control and documentation.</td>
<td>Vibratory smooth drum and padfoot rollers</td>
<td>Slope sensor, Single or dual Smart GPS+GLONASS Antenna Control box, Rugged on-machine radio</td>
<td>Soil compaction for earthworks, embankments, dams, base/sub base materials for roads, runways, rail, foundations Asphalt base course material</td>
</tr>
</tbody>
</table>
Easy to use Display Systems that pay for themselves

How it works

- The system is designed to provide visual guidance to machine operators for manual grading operations.
- A laser transmitter emits a rotating 360-degree beam of light that covers the work area.
- Depending on the transmitter, the laser beam can be either a flat plan for level work or tilted for grade work.
- The receiver is mounted above the machine's cutting edge on grading equipment or on the dipper arm of excavation equipment.
- A laser receiver is magnetically mounted to the machine, and clearly displays your grade status: on - above - below.
- The receiver is initially set on-grade to a known desired elevation or benchmark. As the blade or bucket is moved, the operator can see which direction to move the blade or bucket to get to on-grade.

LR30/LR50/LR60 give you the best in benefits and features

Benefits:

- Increase machine productivity and accuracy
- Simplify your grading and excavating operations
- Reduce labor and wasted downtime waiting for grade checks
- Save material with improved accuracy

How it works:

- The receiver is mounted above the machine's cutting edge on grading equipment or on the dipper arm of excavation equipment.
- A laser receiver is magnetically mounted to the machine, and clearly displays your grade status: on - above - below.
- The receiver is initially set on-grade to a known desired elevation or benchmark. As the blade or bucket is moved, the operator can see which direction to move the blade or bucket to get to on-grade.

Benefits:

- Increase machine productivity and accuracy
- Simplify your grading and excavating operations
- Reduce labor and wasted downtime waiting for grade checks
- Save material with improved accuracy

Versatility
Works with all rotating lasers.

360-Degree Reception
Use on all types of machinery for fast, no-hassle set-up.

Multiple Accuracy Choices
Match to your jobsite requirements – rough grading to final finishing.

Ultra-Bright LED with Green On-Grade
Easy to see in all light conditions.

Brightness Control
Select to match light conditions.

Out-of-Laser Beam Indication
Directs which way to move to get back in the beam. Selectable on or off.

Self-Contained
Allows quick mounting and is easily moved from machine to machine.

Long Battery Life
Keeps your machine working.

Automatic Shut-off
Conserves battery life when the receiver is not in use.

Power Options
Nickel Metal Hydride rechargeable batteries, optional Alkaline batteries, or a power cord that connects directly to the machine power. Low battery warning.

Heavy-Duty Clamps
Stainless steel no-slip clamps grip tightly to poles up to 50 millimeters (2 inches) diameter.

Waterproof
Designed to withstand all weather conditions. Durable polycarbonate and aluminum die cast housings stand up to tough construction environments. Internal isolating shock mounts protect the electronics.

Carrying Case
Slim design, protects the receivers during transport and holds accessories, spare batteries, and manuals.

Two-Year Warranty
Grade Display Receivers from Spectra Precision Laser

**LR30 Grade Display Receiver**
- For use on many types of grading and excavation equipment including dozers, backhoes, excavators and trenchers.
- Five channels of grade information plus directional out-of-beam indicators.
- Three selectable accuracies meet job tolerances from rough grading to final finishing.

**LR50 Grade Display Receiver**
- Built-in plumb indication helps the operator keep the blade level for increased production and accuracy. Can be programmed to match an existing or known grade for slope matching operations.
- Center On-grade provides an equal amount of grade information above and below on-grade. Use on dozers, graders, scrapers, and box blades.

**LR60 Grade Display Receiver**
- Patented Angle Compensation for Excavation automatically calculates and corrects the grade display for the angle of the dipper arm.
- Check grade with the dipper arm extended or retracted up to 30 degrees.
- Plumb indication built in for quick and accurate grade checking for excavators and backhoes.

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**Affordable Automatic Blade Control for Dozers**

**CB25 Control Box**
For even greater gains in productivity for your dozer, combine your LR50 or LR60 display receiver with the cab-mounted Spectra Precision Laser CB25 Control Box for automatic blade control. Automatic blade control keeps your machines moving and operating at maximum speed... saving time, fuel, material and labor on every grading job.

**CB25 Features:**
- Proportional receivers and proportional hydraulic valves ensure maximum system accuracy and smooth, precise operation.
- Switch from automatic to manual control with the quick flip of one switch.
- Adjust system accuracy settings and hydraulic blade speed from the cab-mounted control box.
- Dynamic blade balancing is set during installation for smooth raise and lower response.
- The CB25 has 16 on-grade accuracy settings from 0 to 38 millimeters (0 to 1.5 inches). These provide optimum accuracy selections for various jobsite requirements.
- The CB25 works with proportional time, proportional current and proportional voltage hydraulic valves.

**How it works**
A laser receiver is mounted above the cutting edge of the blade. The Spectra Precision Laser CB25 control box and a hydraulic installation kit are tied into the machine’s hydraulic system. Grade information from a rotating laser is processed and automatically directs the machine’s hydraulics to maintain the blade elevation.

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Call for information and pricing on all of these Trimble Grade Control products.