



# SITECH CONSTRUCTION SYSTEMS

Providing the tools to revolutionise your construction workflow



YOUR CONSTRUCTION TECHNOLOGY PROVIDER





## ABOUT US

SITECH Construction Systems is the Trimble heavy and highway dealer for Queensland, Victoria, South Australia, Tasmania, Northern Territory and New Zealand.

SITECH is the leader in providing easy-to-use, comprehensive Trimble construction technology solutions for contractors of all sizes. From Trimble machine control systems, to site positioning and software, SITECH provides the support, expertise, and experience to increase your productivity and maximise your return on investment through advanced worksite solutions.

To be competitive today you need both high productivity and a high return on investment. SITECH is the leading distribution network for the most reliable, rugged and complete portfolio of construction technology systems available to the heavy civil construction contractor. Our experienced construction professionals will advise you on the right technology for your job and provide you with local customer service, personalised training and technical support.

The team at SITECH knows how to apply innovative construction technology to effectively solve your biggest construction challenges. They will guide you in leveraging Trimble machine control systems for your entire fleet of heavy equipment, along with Trimble's complete portfolio of Connected Site solutions—Site Positioning Systems, data prep and management software, fleet and asset management solutions and collaboration tools along with powerful wireless and internet-based infrastructure.

These solutions improve productivity by allowing seamless information flow between the office and jobsite. Design updates and progress reports can be sent back and forth through wireless data transfer in real time—eliminating delays and rework associated with using outdated information.

Construction surveyors and machine operators can be supported and trained without ever leaving the office, saving time and money.

With the addition of Trimble's site-wide solutions to your heavy civil construction projects, you're in a stronger, more competitive position. You'll experience new levels of productivity that will enable you to earn the bid and be profitable, project after project.



## OUR PARTNERS

At SITECH Construction Systems we have the benefit of working with a number of key, experienced partner businesses to offer you the best solutions for your entire business.



Established in 1888, 130 years ago now, UPG, Trimble's premier Australian dealership, specialises in providing the latest in geospatial technology solutions and innovation across a number of industries. Not only will they provide you with the best solutions, they'll be there through the installation, support, training, service and repair.

[upgsolutions.com](http://upgsolutions.com)



BuildingPoint offers the latest in Building Information Modelling (BIM) solutions from Trimble. Focused on making building professionals more efficient and profitable through all stages of Design, Build and Operate, the team at BuildingPoint will work with you to offer the best solution, as well as the ongoing support and training you need to make it work for your project.

[buildingpoint.com.au](http://buildingpoint.com.au)



Since its formation in 1985, AllTerra (formerly GeoSystems) has been dedicated to providing innovative geospatial technology through a commitment to technological evolution and development. The AllTerra brand replaced the GeoSystems brand in July 2016. AllTerra is the global dealer brand for Trimble's geospatial portfolio and symbolises a new brand with a fresh look and feel, and a renewed focus on Trimble geospatial products and services.

With offices in Christchurch, Wellington and Auckland, AllTerra is the largest supplier of Global Navigation Satellite System (GNSS) products, measuring instruments and supporting software and services in New Zealand. Many of the staff have worked previously within the industries they serve.

[allterra.co.nz](http://allterra.co.nz)



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# GRADE CONTROL

## Streamline Your Operations

Trimble machine control systems help contractors finish faster with less rework, less staking, less checking, lower costs and improved material yields. Plus, Trimble solutions quickly pay for themselves—often on the first project!

## Grade control for Motor Graders

Take the guesswork out of earthworks with construction technology from Trimble. Work smarter, faster and more profitably with highly productive, integrated and innovative solutions for the complete job site to keep you on track.

### GCS900

The Trimble GCS900 3D Grade Control System can be installed on motor graders to put the site plan - design surfaces, grades and alignments - inside the cab.

### Grading

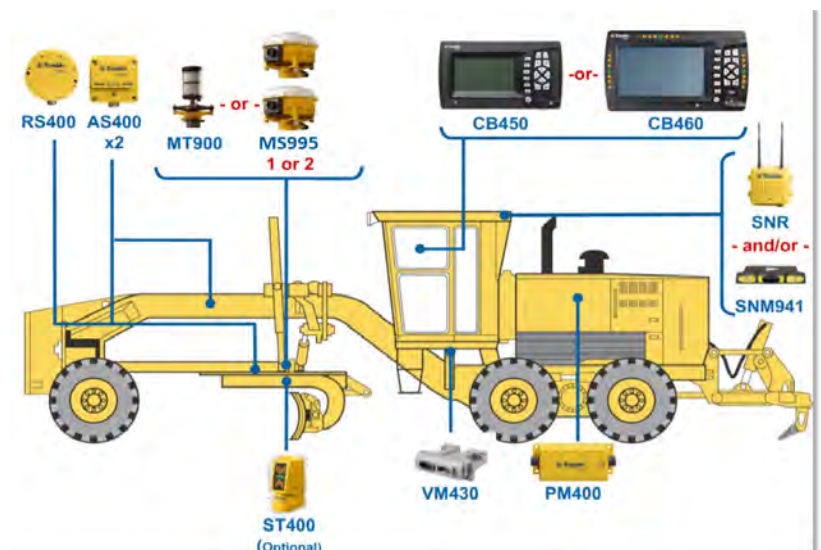
- Measure the position and blade slope with the single GNSS antenna configuration
- Measure the exact position, very accurate cross slope and the heading of the blade with dual GNSS

### Finished Grade

- Achieve finished grade to millimetre accuracy with fewer passes
- Place finished grade materials more accurately and in a shorter time period, keeping material costs to a minimum and realising better profits.

## Some Key System Features

- CB450 or CB460 full-colour graphical control box with internal light bars
- Integrated smart GNSS antenna, cab and blade mountable, quick release mounting for removal
- Indicate or automatic blade control configurations
- Auto sideshift of the motor grader blade supported
- Dual GNSS blade mounted solution provides the most versatile grading solution on the market
- Global solutions for two-way data transfer or synchronisation of data between machine and office



Visit [SITECHCS.COM/SOLUTIONS/MACHINE CONTROL](https://www.trimble.com/SITECHCS.COM/SOLUTIONS/MACHINE_CONTROL) for more information.

# Grade control for Compact Machines

Maximise the control, speed and flexibility of your compact equipment. Now your mini machines can mean major productivity.



## 2D and 3D Grade Control

The Trimble GCS900 Grade Control System can be installed on compact machines to put the site plan - design surfaces, grades and alignments - inside the cab.

### Grading

- Measure the position and blade slope with the single GNSS antenna configuration
- Measure the exact position, very accurate cross slope and the heading of the blade with dual GNSS

### Finished Grade

- Achieve finished grade to millimetre accuracy with fewer passes
- Place finished grade materials more accurately and in a shorter time period, keeping material costs to a minimum and realising better profits.

### Finished Grade

- Achieve tight tolerances and a smooth finished grade with precise vertical guidance
- Calculate the cross-slope of the blade using two angle sensors and a rotation sensor
- Add a laser receiver or a sonic tracer to measure elevation
- Trace string line, previous pass or curb and gutter with a sonic tracer

### Laser Grade Control

Compact machines are the work horses of many construction sites. As you find more uses for them, Trimble continues to refine our offerings into systems that work just as hard as you do, with a price to fit your budget.

Here are just some of the benefits you will gain by using our compact machine solutions on your skid steers, backhoe loaders and mini-excavators:

### Increased Productivity

- Now you can use your compact machines for more specialised and finished grade applications

### Reduced Labour and Downtime

- You don't need to wait for grade checks because you can immediately see when you're on grade
- There's no need to get out of the machine to check grade yourself

### Reduced Rework

- When you move the material correctly the first time, there's no need to spend time doing rework

# TRIMBLE EARTHWORKS

## Grade Control Systems for Excavators

The new Trimble® Earthworks Grade Control Platform for Excavators is designed to help you do more in less time. Re-engineered from the ground up, our innovative, next generation grade control platform features intuitive, easy-to-learn software that runs on an Android operating system. And state-of-the-art software and hardware give operators of all skill levels the ability to work faster and more productively than ever before.

### Intuitive Software, Rugged Hardware

The Trimble Earthworks grade control app runs on the new 10-inch (25.7 centimeter) Trimble TD520 touch-screen Android display. The software was created in collaboration with construction equipment operators around the world, so the interface is optimised for ease-of-use and productivity. Colorful graphics, natural interactions and gestures, and self-discovery features make Earthworks intuitive and easy to learn. Each operator can personalise the interface to match their workflow and a variety of configurable views make it easier to see the right perspective for maximum productivity.

Earthworks allows data files to be transferred to or from the office wirelessly and automatically so you've always got the latest design. Using the Android operating system, you can download other useful applications. And for more flexibility, the Trimble Earthworks software can be used on third-party Android tablets.



### Excavator Automatics

With Trimble Earthworks, you can now take advantage of the first integrated 3D after market grade control automatics for excavators. Excavators can work semi-automatically, allowing operators to create smooth, flat or sloped surfaces more easily.

How it works:

1. The excavator is placed in Auto mode
2. The operator controls the stick
3. Trimble Earthworks controls the boom and bucket
4. Stay on grade, reduce over-cut and increase production

Achieve grade consistently, with high accuracy and in less time by automating excavator operation with

**Trimble Earthworks.**

Ask for the next generation of machine control.  
From the company that invented machine control.



Visit [SITECHCS.COM/SOLUTIONS/MACHINE CONTROL](https://www.sitechcs.com/solutions/machine-control) for more information.





# TRIMBLE EARTHWORKS

## Grade Control Systems for Dozers

The proven performer for excavators has now rolled out for dozers. The Trimble Earthworks Grade Control Platform offers your dozer operators cab-mounted portability, a user-friendly Android™ UI, and the convenience of a 10-inch touch screen. Simply put, it helps new and veteran operators do things right the first time, and in less time, than ever before.

### Intuitive Software, Rugged Hardware

The Trimble Earthworks grade control app runs on the new 10-inch (25.7 centimetre) Trimble TD520 touch-screen Android display. The Software was created in collaboration with construction equipment operators around the world, so the interface is optimised for ease-of-use and productivity. Colorful graphics, natural interactions and gestures, and self-discovery features make Earthworks intuitive and easy to learn. Each operator can personalise the interface to match their workflow and a variety of configurable views make it easier to see the right perspective for maximum productivity.

Earthworks allows data files to be transferred to or from the office wirelessly and automatically so you've always got the latest design. Using the Android operating system, you can download other useful applications. And for more flexibility, the Trimble Earthworks software can be used on third-party Android tablets.

### Cab-Mounted Portability

Trimble Earthworks for Dozers mounts dual GNSS receivers on top of the cab to eliminate masts and cables traditionally located on the blade. The dual GNSS receivers are ideal for steep slope work and complex designs with tight tolerances.

The new configuration allows you to easily remove the receivers to other machines, to maximise your investment and keep your machines working. Cab-mounting receivers is more convenient and can save you time by reducing the need to reinstall them each day.



Visit [SITECHS.COM/SOLUTIONS/MACHINE CONTROL](http://SITECHS.COM/SOLUTIONS/MACHINE CONTROL) for more information.



## Optimise The Paving Site For More Profit

Trimble offers productive, integrated and innovative solutions for the complete paving job site to keep you on track throughout the project life cycle. From milling to paving to compaction, Trimble solutions for paving can help contractors ensure quality, reduce expensive material usage, and pave to the tight accuracies required by today's government agencies.

## Compaction Control for Asphalt Compactors

Eliminate the guesswork, roll a more efficient pattern, increase productivity and save fuel. The surface will speak for itself.

Trimble CCS900 Compaction Control Systems help you roll a more uniform surface and increase your efficiency. They offer :

- A full-colour graphical display
- Flexibility to fit your needs
- Reliability of the Trimble paving workflow

The Trimble CCS900 Compaction Control system is the premium system for improving asphalt compaction operations and rolling a more efficient surface. Trimble CCS900 offers several advantages to improve compaction efficiency.

Integrates with:

- VisionLink Unified Suite
- Connected Community
- Paving Control for Asphalt Pavers

## Paving Control for Asphalt Compactors

Pave the way to better profits. Trimble Paving Control Systems help speed up your paving production while laying a smoother surface and reducing material costs.

The Trimble PCS900 3D Paving Control System allows you to accurately control the screed and pave with variable depth and slope based on a 3D design.

Integrates with:

- SPS730 and SPS930 Universal Total Stations
- Paving Control for Milling Machines
- Compaction control for Asphalt Compactors
- Business Centre - HCE
- Paving Control for Slipform Pavers

Visit [SITECHCS.COM/SOLUTIONS/PAVING CONTROL SYSTEMS](https://www.trimble.com/SITECHCS.COM/SOLUTIONS/PAVING_CONTROL_SYSTEMS) for more information.



## Paving Control for Slipform Pavers

Eliminate the guesswork, roll a more efficient pattern, increase productivity and save fuel. The surface will speak for itself.

Once you start paving concrete with PCS900, you'll wonder how you could ever use string line. Trucks can pull up and dump without driving around string. You'll stop less often, grind fewer problems and blow away your target IRI number.

Trimble PCS900 Paving Control System uses automatic steering and 6-way control of the pan to keep the paver exactly on the target alignment, design and slope.

For even greater control of material placement, Trimble offers a dual GNSS-based paving control solution for placer/spreader machines. The GNSS-based system allows contractors to move their Trimble GCS900 Grade Control System display, radio, sensors and GNSS receivers between even more machines in their fleet.

Integrates with:

- SPS730 and SPS930 Universal Total Stations
- Business Centre - HCE
- Paving Control for Asphalt Pavers
- Paving Control for Milling Machines

## Paving Control for Milling Machines

Mill out the waves. Controlling the precise cutting depth of the mill minimises over-cutting, creates a smoother surface and reduces the need for additional material in the re-paving process.

PCS900 for Milling Machines uses a 3D design model, the industry-leading SPS930 UTS and on-machine sensors to mill at a fixed or variable depth, depending on the job.

Using PCS900 provides several benefits:

- Smoother Base
- Shorter Lane Shutdowns
- Reduced Machine Wear
- Less Material to Remove
- Less Asphalt Usage

Integrates with:

- Paving Control for Asphalt Pavers
- SPS730 and SPS930 Universal Total Stations
- Compaction control for Asphalt Compactors
- Business Centre - HCE
- Paving Control for Slipform Pavers



# SITE POSITIONING SYSTEMS

## Take Control Of The Jobsite

Trimble Site Positioning Systems help contractors take control of the jobsite, perform tasks more productively, meet tighter specifications, and avoid rework. From the field, truck, or office, the whole crew can be connected and equipped with accurate positioning, consistent digital design information and the ability to locate, measure and record information. Contractors can share information, track results instantly, make smarter decisions, and easily manage multiple job sites.

### GNSS Antennas for Construction

Trimble offers several models of GPS and GNSS antennas to suit your specific application, signal tracking and budget requirements.



### GNSS Correction Sources

Your GNSS operations are only as good as your correction source. It's important, so we let you choose the right one for you. Larger sites may need a local GNSS base station for the highest precision, smaller sites may opt for a virtual correction source.



### GNSS Radios for Construction

Trimble radios offer flexible configuration options and rugged reliability for efficient use of GNSS on the construction site.



### Siteworks

The fully integrated Trimble Siteworks Positioning Systems are designed to eliminate downtime by making every minute more productive. With increased processing power and Windows 10, the systems enable quicker handling of complex files and 3D data sets, all on a much larger screen—meaning you can spot issues and solve problems before they slow you down.



### Site Positioning Systems Essentials Kit

Proven Trimble quality and accuracy with a budget-friendly price tag for grade checkers, site engineers or contractors new to GPS technology.



### SPS585 GNSS Smart Antenna

Versatile, compact and affordable - the SPS585 is the ideal entry-level Trimble receiver for both marine and civil construction applications.



# TRIMBLE SITE POSITIONING SYSTEMS

## WAY TO GET THE JOB DONE

### SPS620 and SPS720 Robotic Total Stations

Keep it accurate, but keep it simple. The SPS620 and SPS720 are perfect for the one-person operation on smaller site operations and work on structures such as bridges or culverts, offering very high accuracy and reliability for construction site positioning, stakeout and measurement.



### SPS730 and SPS930 Universal Total Stations

Nothing else comes close. Trimble Universal Total Stations lead the industry in accuracy, range and reliability for fine grading, paving, stockpile scanning and site measurement.



### SPS855 GNSS Modular Receiver

Save time, money and headaches with the SPS855, Trimble's reliable, easy-to-use base station solution. With remote monitoring and alerts, an internal radio and rover capability, the SPS855 meets all your needs.



### SPS986 GNSS Smart Antenna

Tougher than Tough Enough. The SPS986 GNSS Smart Antenna is the smallest and toughest GNSS receiver we've ever built. And it's also the most useful - as a GNSS rover system or as a Wi-Fi enabled base station the SPS986 does it all.



### Trimble Site Mobile

Combining a camera, a controller and a smart phone into one lightweight device, the all-in-one Site Mobile is the only device you need on the construction site.



### Trimble Tablets

Connect your office to the field with the Trimble Site Tablet, rugged and fully connected field computers for construction measurements and site positioning. Brains and brawn. What could be better.



### Trimble Site Pulse System

Field managers can now access the same 3D constructible models and real-time digital information used by construction surveyors, grade checkers and machine operators.



### Trimble TSC3 Controller

Your rugged workhorse for site measurement, stakeout, and grade checking operations, the TSC3 gives supervisors, foremen, grade checkers and site engineers total control of site operations.



### Trimble TSC7 Controller

A bigger screen, powerful processing power and Windows 10 means you're carrying all the potential of a laptop - right in the palm of your hand.





## T4D MONITORING

Software is the core of a monitoring project. It triggers alarms based on user defined thresholds as well as controls the measurements, manages data and compiles and analyses the results. From campaign monitoring to real-time, multi-sensor operations, Trimble 4D Control can handle the challenge of complex monitoring applications.

A monitoring installation lets you detect displacement or movement in natural and man-made structures. Software is the core of any monitoring project. It triggers alarms based on user defined thresholds as well as controls the measurements, manages data and compiles and analyses the results. From campaign monitoring to real-time, multi-sensor operations, Trimble 4D Control can handle the challenge of complex monitoring applications.

Getting started is easy with scalable monitoring solutions from Trimble. Trimble 4D Control provides analysis and management tools to help you start small and grow. As your expertise in monitoring increases, you can easily expand from post processed deformation monitoring campaigns all the way to real-time systems that manage your projects and alert the operator of significant motion events. Integrating a variety of sensors from Total stations, GNSS, Geotechnical, Environmental.

### **Trimble 4D Monitoring Software as a Service.**

UPG and SITECH have the ability to deploy a cloud server with Trimble 4D for individual customers.

- Both the Hardware and Software can be purchased or hired, making it possible for short term campaign deployment.
- In house professionals who can provide guidance, installation and assistance to offer a Plug and Play solution for your site.
- Catered Training and Support through all stages of the project.

### **Key Features**

#### **Collect and Manage Data**

A Trimble monitoring system automatically manages measurement cycles, communications and the flow of incoming data. In addition to Trimble optical and GNSS sensors, Trimble 4D Control supports a wide variety of geotechnical instruments.

#### **Computations and Analysis**

Trimble 4D Control provides tools for rigorous analysis on your monitoring data. Your results arrive quickly and easily. And because the raw information is stored in an SQL database, it's easy to extract your data for use in external applications.

#### **Visualisation and Mapping**

Use Trimble 4D Control to create visual results using maps, charts and graphs. You can import photographs and aerial images to provide base maps and backgrounds for real-time data on sensors and project status.

#### **Automated Alerts and Alarms**

You can define sets of conditions for alarms, including tolerances for displacement at any point. When needed, Trimble 4D Control sends alarms via SMS and email to specified stakeholders.

Visit [UPG/SURVEY SOLUTIONS](#) for more information



## Trimble SX10 Scanning Total Station

The Trimble® SX10 Scanning Total Station redefines the capabilities of everyday survey equipment by providing the world's most innovative solution for surveying, engineering, and scanning professionals. This innovative and versatile solution allows users to collect any combination of high-density 3D scan data, enhanced Trimble VISION™ imaging, and high-accuracy total station measurements, allowing you to capture exactly what you need, saving you time and money on every job.

### Topographic Survey / General Surveys - Boundary/Land Title Surveys

Use a combination of high-accuracy surveying and high-speed scanning to quickly document all the features of your land title survey including location of boundaries, buildings, easements and site improvements. Back in the office, engineers can visually see the full context of the site and surrounding elements including right-of-way features, encroaching elements or complex structures. CAD technicians can easily understand and extract additional site information from scan data and images without costly site revisits.

### Roadway / Corridor Surveys - Road design and Topo

Improve safety and reduce costs by scanning road corridors and intersection details such as roadway surfaces, overhead power lines and lane striping without putting the surveyor in harm's way and all while minimising the need for road closures. Capture critical measurements such as flow-lines, manholes, and right-of-way monumentation with prism observations and then use these back in the office to define critical engineering elements of your survey. Add detailed imagery to provide site context, improving communications between field and office teams.

### Mine / Quarry Survey

The exceptional scanning range of the SX10 allows site surveyors to maintain a safe distance from operating machinery all while capturing dense data on high-walls or stockpiles. Targeted framing of areas to be captured enables a fast and efficient data collection. The survey workflow eliminates the need for complex scan target registration and provides instant information for time based volume analysis in the office.

## UAV's (Unmanned Aerial Vehicles)

Today, a boom of UAV use is being seen across many industries as the technology has reached a maturity level that makes it both user-friendly and inexpensive.

The construction industry has not been immune to the popular draw of UAV's. Construction companies have primarily been using Uav's to provide real-time reconnaissance of their job sites and to provide high-definition (HD) video and still images for publicity and documentation of progress.

Maintaining a competitive edge in the civil engineering and construction industry means keeping tight control over project costs. Blowouts in construction time-frames, workplace incidents, worksite closures, under utilised equipment - these can all have a devastating impact on the profitability of projects.

UAV's are providing a level of previously unmatched visibility over large-scale projects, improving transparency, enhancing site safety and helping avert costly disruptions. Drones cut costs, deliver efficiencies and save time.



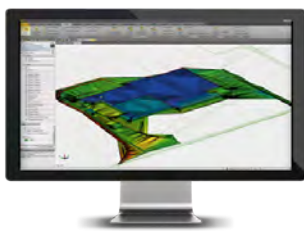
Visit [UPG/UAVs](#) for more information on UAV's and Training.



# CONSTRUCTION SOFTWARE

## Machines move dirt, but information moves mountains

Having technology on your machines is one thing, having the ability to connect all your machines and their data together, and access all his information on-site or in the office, is what will make you successful and profitable.



### Business Centre - HCE

Powerful tools help you create accurate, integrated 3D models for sites, highways and marine applications quickly and easily. Make better decisions, decrease costly mistakes, and increase efficiency in the office and on the job site.

- Reduce Drive Time
- Reduce Rework
- Win More Bids
- Increase Profit



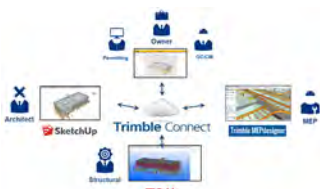
### VisionLink Unified Suite

3D Project Monitoring

Continuously monitor and record 3D earthmoving, grading and finishing operations throughout the life of your project, and use the information to make timely decisions regarding equipment use and deployment.

Create near real-time 3D surface model, elevation and cut and fill maps to show progress towards completion, eliminate drive time to the site and ensure you have the most current information.

Plus lots more. Ask us about VisionLink.



### Trimble Connect

Welcome to a collaboration environment where you and everyone involved in your construction project knows what's happening now. And what should be done next. Everyone from the ground floor to the top floor, on-site and off-site.



### Connected Community

Connect everyone on the job - from the owner to the operator - so your project is on-time and on-budget.

Connected Community is the backbone of the Trimble Connected Site, helping you manage and share information in real-time using the Internet. Whether you're in the office working on a design or in the field working on a machine, you'll be in the know.

Visit [SITECHCS.COM/SOLUTIONS/SOFTWARE SOLUTIONS](http://SITECHCS.COM/SOLUTIONS/SOFTWARE_SOLUTIONS) for more information.





## Quantm Alignment Planning System

Plan a new highway project, or high speed, freight or passenger rail project, more rapidly with lower construction costs.

Trimble Quantm Alignment Planning solutions support road and rail planners and engineers through the complex process of selecting and generating 3D corridors and alignments. Unique route optimisation technology generates millions of alternative alignments and returns a range of 10-50 of the best options for review by various stakeholders.



## SketchUp

The easiest way to draw in 3D.

- Get Good Fast
- Turn Models Into Documents
- Find a 3D Model of Anything
- Customise Your SketchUp

You can download a free trial at [SketchUpAustralia.com.au](http://SketchUpAustralia.com.au)



## Tekla Civil

Powerful database-driven civil engineering software for linear and site design projects.

Tekla Civil is model-based civil engineering design software that saves you money through improved efficiency and faster design.

- Increases team efficiency by providing multi-user collaboration management with access controls
- Produces high quality designs with seamless database-driven data management
- Easily handles large project data models and complex earthwork structures
- Delivers constructible, model-based, continuous multiple surface layer 3D output for construction



## Trimble Stratus

Trimble Stratus software helps civil contractors use drones to map, measure and share accurate information about their work sites and assets. With Stratus, you can make quicker decisions, avoid mistakes, and grow profits by always having the right information on hand.

## Data Services

Our Data Services team is made up of industry experts who understand what a true earthworks model should contain and can take the finished surface model and break it open to the individual earthworks and sub-grade components. This removes operator error from the field decisions, provides you with the assurance correct construction methods have been used and enables true volumetric control of on-site materials.

Our Data Services team can do the work for you:

- Trimble Business Centre - Heavy Construction Edition (BC-HCE) support. BC-HCE is an easy-to-use graphical piece of software which is ideal for preparation and management of data for heavy civil construction projects
- Design Services
- Volumes
- Tendering / Estimating
- Periodic reporting, eg End of Month reports
- Machine Control Files
- Trimble SCS900 Data
- 3D Data Visualisation
- GNSS Post-processing
- Mass Haul Optimisation



## Real-time Information Wirelessly Reporting From the Field

Profitability requires the fleet and asset manager to make smart decisions about deployment, production health and maintenance. No manager can be in the office and on multiple job sites at the same time, but with real-time information wirelessly reporting from the field, Trimble fleet and asset management solutions can make it seem that way.

### TOTALcapture

The TOTALcapture system was designed as a decision support system which passes key equipment production and location data captured by the onboard devices back to the cloud-based server. It's ideal for Quarry's, smaller mines and any job which efficiently have large volumes.

The near real-time data helps managers effectively monitor and control the utilisation of their assets from any location via the internet. The system removes a number of human error elements compared to manual systems, and consolidates the onboard system monitoring systems into a single solution.

Operator interaction is kept to a minimum through the connection to available digital inputs or supported OEM interfaces.

Ideal for Quarries, smaller mines and any job requiring the efficient movement of large volumes.



### FLOm

FLOm - Automated Fluid Monitoring System - provides a paperless fuel/lube/oil monitoring system that better manages the operations on site and provides more reliable data in the office.

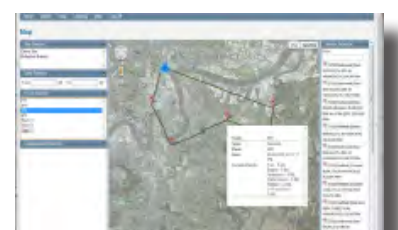
FLOm allows you to do a multitude of things on site including

- monitoring all fuel usage
- reconciling fuel in vs fuel out
- controlling which assets receive fuel
- monitoring plant refills and fluids delivered

With FLOm there are numerous ways to view and export your data through filters

- Date
  - Driver
  - Truck
  - Number of deliveries
- Plus numerous other filters.

A visual display area in FLOm allows you to see real-time information on fuel trucks in the field and view a complete history on their day's activities.



For more information on TOTALcapture and FLOm, call **1800 748 324**

## VisionLink

The VisionLink® solution from Trimble integrates site productivity, material quantities, and materials movement with asset and fleet management to give you a holistic view of your site so you can make the right decision at the right time. Centralizing and simplifying the management of on-site operations maximizes efficiency, raises productivity and lowers costs for your entire fleet



## SNM941 Connected Site Gateway

The SNM941 is like a dedicated hot line sending and receiving vital information from the field – design updates, GNSS corrections, telematics, production information, and even tech support.

Integrates with Connected Community and VisionLink Unified Suite.



## SNM451 Connected Site Gateway

Fleet manager, rest assured. The rugged SNM451 will give you all the location, run time and utilisation information you need to allocate and remotely monitor the productivity of your light assets, site trucks and haul vehicles at an affordable price point.

Coupled with the VisionLink fleet, asset and productivity management solution, SNM451 provides project owners, fleet managers and equipment rental companies the critical information they need to more effectively allocate resources and improve the productivity of their mixed fleet





## Compact More Waste Using Less Space

Get to target compaction faster, with greater accuracy and less fuel cost without the added time and expense of stakes and survey crews. Trimble GCS900 Grade Control Systems, Trimble CCS900 Compaction Control Systems, Trimble Unmanned Aircraft Systems (UAS) and Trimble Software Solutions can help you lower operating costs, increase productivity and lengthen the life of the landfill.

## Maximise the Life Of Your Landfill

VisionLink® Landfill tracks the compaction and fill processes at your site when coupled with landfill compactors installed with Trimble® CCS900 Compaction Control Systems. VisionLink Landfill tracks the compaction efforts of GPS-equipped compactors, and calculates the waste volumes placed and the compaction densities achieved in active cells. Optimise compaction and maximise landfill life with VisionLink Landfill.

## Developed for the Landfill Manager

An easy-to-use solution for greater efficiency and productivity in the office and on the site.

Manage and optimise landfill performance with:

- Volume and density calculations
- Compaction mapping
- Compaction density
- Multi-site tracking
- Landfill life estimates
- Scale weight entries
- Comprehensive reporting
- Configurable dashboard

## Volume and Weight

Volume and Weight are required to calculate density, and are also important metrics for good landfill management.

- Weight values are entered or imported by the user
- Volumes are calculated from the difference of the current surface and previous day's final surface
- Both volume and weight are displayed on the graph daily

## Volume and Time

The Volume and Time widgets offer a snap-shot of volume history to project landfill life.

- Running summary of weekly and monthly volume totals
- Estimates the airspace remaining for the landfill based on design top of waste and current elevation
- Estimates landfill life remaining using the volume remaining and average volumes added calculations

Easy-to-use Interface



## Density

The density chart provides a comprehensive overview of your density data on a time-line.

You can also use it to identify:

- Upward or downward trends in daily values for weights brought into the landfill (or site) within the landfill
- Daily volume calculations
- Daily density values
- Average density over time

The machine control system surveys the exact elevation of each pass and calculates material deflection, how much the elevation changed, after each pass.



Visit [SITECHS.COM/SOLUTIONS/LANDFILL SOLUTIONS](http://SITECHS.COM/SOLUTIONS/LANDFILL_SOLUTIONS) for more information



# WEIGHING AND REPORTING SOLUTIONS

## Payload Management

Trimble® LOADRITE™ products can help you increase profitability, maximise productivity, improve operational efficiency and get control of your inventory.

Trimble has a range of loader scales, excavator scales, conveyor belt scales, payload reporting, tractor scales, forklift scales, refuse truck scales and tire monitoring systems.

Trimble payload management solutions product range serve a variety of industries including quarrying, mining, civil construction, public works, transportation, waste and recycling, scrap recycling, agriculture and more.

### LOADER SCALES\*

- L3180 SmartScale
- L2180 Loader Scale
- L2150 Loader Scales
- Force Loader Scales
- LR360 Loadout System

\* only sold in South Australia



### L-Series

Trimble LOADRITE offers a range of on board weighing systems designed for wheel loaders, from entry-level through advanced functionality options.

### EXCAVATOR SCALES

- X2650
- X2350



### X-Series

Designed and engineered specifically for bucket excavators, Trimble LOADRITE™ X-Series™ excavator scales use proprietary Multi-Dimensional Compensation (MDC)™ weighing technology to achieve accurate weighing performance with no disruption to the operation of the excavator, over a wide range of operating conditions.

### CONVEYOR BELT SCALES

- C2850
- C2880
- LOADRITE Communication Interface (LCI)



### C-Series

Trimble LOADRITE conveyor belt scales and data management tools drive productivity and machine performance decisions by monitoring quarry performance, productivity and stockpile inventory.

### HAUL TRUCK MONITOR

- H2250



Using the H2250 all your haul truck productivity data is automated, saving you time and frustration from tabulating load sheets, and replacing it with accurate production figures presented in clear graphical electronic reports.

The H2250 provides near real-time reporting of haul truck production and process monitoring, driving increased production and limiting costs.

### REPORTING

- InsightHQ
- Material Management Software (MMS)
- Communications Options
- LP950 Printer
- LP930 Thermal Printer



InsightHQ from Trimble LOADRITE provides visibility to respond to issues, optimise production and productivity in real time.

With the Trimble LOADRITE Material Management System installed on your computer you can turn your Trimble LOADRITE onboard scale into a business management tool. MMS enables you to gather load data from your Trimble LOADRITE scale and transfer it across your site in a secure, paperless manner.

Visit [SITECHCS.COM/SOLUTIONS/WEIGHING AND REPORTING](https://www.sitechcs.com/solutions/weighing-and-reporting) for more information.



## Bring the Office and the Field Together

Trimble solutions for drilling and piling use advanced Trimble positioning technology to help increase the safety, accuracy and efficiency of drilling and piling operations. All day. All night. And under almost any conditions. Part of the Trimble Connected Site portfolio, Trimble drilling and piling solutions are integrated to bring the office and the field together for less rework, more productivity, and best of all — more profitability.

### DPS900 Drilling System

- Drill exactly to the depth you need
- Drill inclined or vertical holes that are evenly spaced
- Increase site safety
- Reduce time and money spent on surveyors and stakes

### DPS900 Piling System

Realise maximum production and revenue with the DPS900 Piling System - the industry's first after market, land-based, 3D piling system for the mixed fleet operator.

- Automate blow count recording
- Position piles accurately without stakes
- Reduce navigation times between piles
- Increase site safety

### DPS900 Dynamic Compaction System

Increase safety, productivity and quality with the DPS900 Dynamic Compaction System - the industry's first after market, 3D dynamic compaction system for mixed fleet operators.

- Automate as-built recording
- Navigate to drop locations accurately without stakes
- Reduce navigation time between drop locations
- Increase site safety

Using DPS900 for navigation increases safety by notifying operators of areas to avoid, reducing blind spots and removing the need for people to stand near the machines.



Visit [SITECHCS.COM/SOLUTIONS/DRILLING AND PILING](https://www.sitechcs.com/solutions/drilling-and-piling) for more information

# MARINE CONSTRUCTION

## Flexible, High-performance Positioning Systems

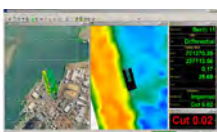
It's all about location, location, location. With Trimble marine construction systems, you'll never have to worry about yours. Trimble offers flexible, high-performance positioning systems to meet the unique needs of marine construction on both simple and complex projects. Our solutions include both hardware and software, and can be easily integrated into third-party systems.

### Marine Construction Components:

(Also shown in 'Site Positioning' Section - pages 12 - 13)



**Business Centre - HCE**  
**GNSS Antennas for Construction**  
**GNSS Correction Sources**  
**GNSS Radios for Construction**  
**SPS585 GNSS Smart Antenna**  
**SPS855 Modular Receiver**  
**SPS986 GNSS Smart Antenna**  
**SPS985L GNSS Smart Antenna**  
**Trimble Site Tablet**



### Also available:

#### HYDROpro Software

HYDROpro offers specialised tools for hydrographic survey and marine construction projects such as rig and barge positioning, piling, and dredging that require precise positioning.



#### Marine Inertial Positioning System

The Trimble Marine Inertial Positioning System is a compact dual antenna system that provides robust 3D position and orientation data in the most challenging of marine environments.



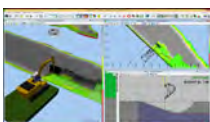
#### Marine Receivers and Sensors

Marine construction presents its own unique challenges and requirements. No matter how complex your project, Trimble has marine construction hardware, software and positioning sensors to help you meet and exceed them.



#### MPS865

The Trimble® MPS865 is a highly versatile, rugged and reliable Global Navigation Satellite System (GNSS) marine positioning solution. Features maximum connectivity - Bluetooth, WiFi, UHF radio, cellular modem and two MSS satellite correction channels.



#### Trimble Marine Construction (TMC) Software

Improve productivity and efficiency in underwater marine construction applications including dredging, crane operations, piling and hydrographic survey. TMC provides accurate 3D visualisation to assist the operator with underwater construction tasks.



## Service Centres

SITECH equipment is known for superior quality and robustness. To ensure your equipment stays in perfect working order, regular maintenance is needed.

On the rare occasion that your SITECH hardware or software is not working as expected, we have to make sure you are back in business as soon as possible.

SITECH Construction Systems is the authorised service centre for Trimble construction tools such as laser levels, pipe and grader lasers, Trimble and Accugrade machine control systems and Trimble Site positioning GPS and Optical products.

We understand that downtime of equipment costs you money so we are committed to getting this equipment repaired and back in the field as quickly as possible with our strong team of Service technicians, spread across Queensland (also supporting the Northern Territory), South Australia, Victoria and Tasmania. All our technicians are members of the Trimble Preferred Service Alliance and are trained to Trimble's exacting standards, remaining highly skilled, resourceful and knowledgeable so that issues are resolved first time, every time.

All warranty and non-warranty services on your equipment will be carried out to factory specifications with the latest in diagnostic and calibration tools on hand to expedite this service.

Our service centres also offer:

- Full in-house GPS and Total Station servicing and repair capability
- Replacement device hire
- Scheduling servicing around your work projects



We regularly service and calibrate:

- Trimble Grade Control System
- Caterpillar Accugrade machine control products
- Trimble Site Positioning GPS
- Total Stations

Repair equipment can be delivered to your local SITECH service workshop with a completed booking form which can be found online:

[SITECHCS.COM/SERVICE & SUPPORT/SERVICE CENTRES](https://www.sitechcs.com/service-support/service-centres)



## Field Service

Just like our service centres, our skilled team of field technicians are dedicated to making sure the downtime of your technology is kept to an absolute minimum.

We have Field Technicians based in all branch offices – Brisbane, Townsville, Rockhampton, Darwin, Melbourne and Adelaide – so when you need field support, we can be there quickly.

Our field technicians are also skilled in:

- Installing base station infrastructure for sites
- Carrying out radio surveys for new sites
- Carrying out operator training in GCS900, SCS900, UTS operation and site calibrations.

## Customer Service

We've extended our Customer Service hours and made it even easier for you to get in touch. You can contact one of our dedicated staff for all your Service requests from 6.30am - 6.00pm, Monday to Friday. Call 1800SITECH (1800 748 324) to talk to our service specialists or email [sitechsupport@sitechcs.com](mailto:sitechsupport@sitechcs.com).

## Training

### Trimble Earthworks

This course provides an introduction to Trimble Earthworks (Version 1.5) utilising 3D GPS technology. The modules describe and demonstrate the options and functionality available to the machine operator.

### SCS900 / Siteworks Software Basics

This introductory course teaches the basic information and skills needed for using SCS900 for Site Projects. This course is ideal for Grade Checkers and Site Engineers that are new users of SCS900 Site Controller Software.

### GCS900 Machine Control Basics

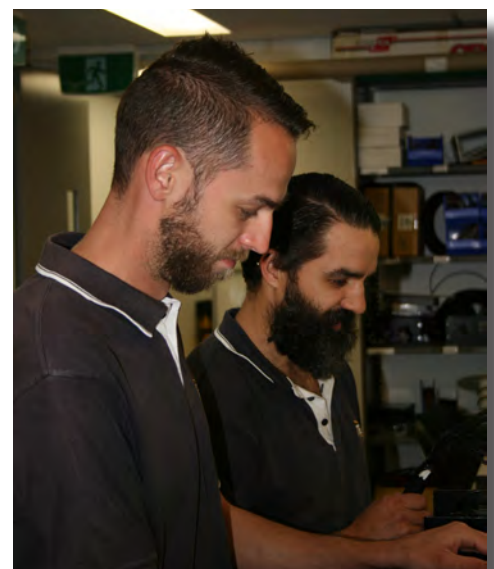
This course provides an introduction to Trimble GCS900 (Version 12.3) utilising GPS technology. The modules describe and demonstrate the options available to the machine operator.

### Office to Field

Helping you manage your site data and designs in one place using Business Center – Heavy Construction Edition.

Offering training in:

- BC-HCE setup and producing field files
- Data management of SCS900, GSC900 and Earthworks models
- Design clean up for best performance in SCS900, GSC900 and Earthworks
- Customised training to Surveyors, Data Managers, Estimators and alike
- Advanced training and support for all BC-HCE modules



To enquire about servicing, training or field service, contact Customer Service, call 1800 SITECH (1800 748 324)

# RENTAL SERVICES

## The No Commitment Solution

Get what you need, when you need it. Take advantage of our rental programs to dip your toes – get the job done right and experience the benefits of the newest technology on the market.

SITECH Construction Systems offers Technology System Rentals for construction equipment. From base and rovers to full machine control systems, we rent the most current technology available.

We have a full fleet of rental equipment including but not limited to:

- GPS Base and Rover Kits
- Cab Kits to suit various machine types
- TSC3 and TSC7 Controllers with the latest construction field software
- Robotic Total Station Kits
- Supervisor Kits
- T10 Tablet Solutions

We provide full "Professional Services" that include site setup, training and Data Prep services to help get you up and running quickly.

If you need to rent a GPS base station or rover, or have a need for more precise positioning from a robotic total station (UTS) we have rental solutions and the technical staff to get your project started.

We also offer support equipment while yours is in our service centre for repair. Get in touch with your local SITECH office to find out how we can help avoid project downtime while we get your gear back up and running.

Most of our construction rentals go to customers who need to perform work on multiple sites and don't have enough company-owned technology to meet the requirements on a job contract.

In order to rent machine control systems from us, you need to have a current version of a Trimble construction technology system already installed on your piece of machinery or a rental unit that is "Trimble Ready" or AccuGrade Ready.

And you'll ask, what's Trimble-Ready and ACCUGRADE-Ready equipment, anyway? The quick answer is, these are basically machines that have been pre-configured by the manufacturer and do not need additional welding or drilling in order to have Trimble or AccuGrade gear installed.

- If you already own Trimble-Ready or ACCUGRADE-Ready equipment, you can rent the machine automation / guidance components that fit your needs from us, and we can install it.
- If your equipment is not Trimble-Ready or ACCUGRADE-Ready, you can rent the Trimble-Ready or ACCUGRADE-Ready equipment from your local Cat dealer or from your equipment dealer, and rent the machine automation / guidance components from us. We will configure it to your machine to start the rental.

We are always looking for ways to help support our customers, one such offering is through our **Ex Rental Sale Department**. All equipment is sold with a 12 month Trimble Protected Plan, this includes the latest firmware and software versions. Give your SITECH account manager a call and see what Ex Rental equipment is available now.

Your best bet? Talk to your SITECH rep. They are experts at assessing your situation, and helping you make the decision that fits your goals, your time frame and your budget.

And remember, all our equipment is serviced by our qualified technicians and all hire equipment runs the latest software, ensuring reliability on any job site.



For more information on rental options visit [SITECHCS.COM/SERVICES & SUPPORT/RENTAL SERVICES](https://www.sitechcs.com/services-support/rental-services)



## Plan and Manage Linear Projects More Effectively

Trimble's unique BIM solution for civil engineering and construction projects significantly improves efficiency and productivity, while minimising errors, waste and cost at every stage of the project – from planning and design, to construction, operation and maintenance.

### Plan

Trimble Quantm provides alignment planning so you can plan a new highway or rail project more efficiently, helping you to find and analyse a number of alternatives faster. The system is of most value when used from the initial project scoping stage, when greater flexibility can be allowed to identify the full range of corridor alternatives.

Trimble helps your engineers through the complex process of selecting and generating optimal 3D corridors and route alignments.



### Design

Trimble Novapoint combines a powerful object-oriented and work process-based modelling application, Novapoint Base, with 20+ Novapoint domain design applications. Together with the cloud-based BIM server and collaboration platform Quadri, they comprise the industry's most comprehensive BIM solution – covering road, rail, water and sewer, tunnel, bridge, landscape – all aspects of modern infrastructure design, throughout the complete Design - Construct - Maintain process.

With Trimble Novapoint you can build a complex model of the infrastructure efficiently – including 3D terrain surfaces, 3D sub-surface layers, and 3D structures such as buildings, bridges, road signs, pipes, manholes, cables, and vegetation.



### Schedule

With Trimble TILOS you can plan and manage your projects more effectively. Linear construction and maintenance projects present unique challenges, because the work is not performed in a single location. TILOS software merges both the location and the schedule dimension into one combined time and distance graphical view that changes dynamically as conditions change.

By incorporating design details, construction challenges and the project schedule into one view, contractors, owners and civil engineers can plan and manage linear projects more effectively.



# PEOPLE AND TECHNOLOGY YOU CAN RELY ON

SITECH® is the leader in providing easy-to-use, comprehensive Trimble construction technology solutions for contractors of all sizes. From Trimble and Cat® machine control systems, to site positioning and software, SITECH provides the support, expertise, and experience to increase your productivity and maximise your return on investment through advanced worksite solutions.

**Contact your local SITECH Dealer.**



## SITECH Construction Systems

SERVICE: 1800 748 324

### QUEENSLAND

#### Brisbane

Tel.: 07 3851 8370

#### Rockhampton

Tel.: 07 4936 2044

#### Townsville

Tel.: 07 4421 2900

### VICTORIA

Tel.: 03 9518 7400

### SOUTH AUSTRALIA

Tel.: 08 8293 9400

### NORTHERN TERRITORY

Tel.: 0408 544 964

### TASMANIA

#### Hobart

Tel. 0419 596 994

#### Launceston

Tel.: 0438 704 903

### NEW ZEALAND

Tel.: + 64 21 35 058

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YOUR CONSTRUCTION TECHNOLOGY PROVIDER

