

**Position**  
Partners

*Shaping New Dimensions*

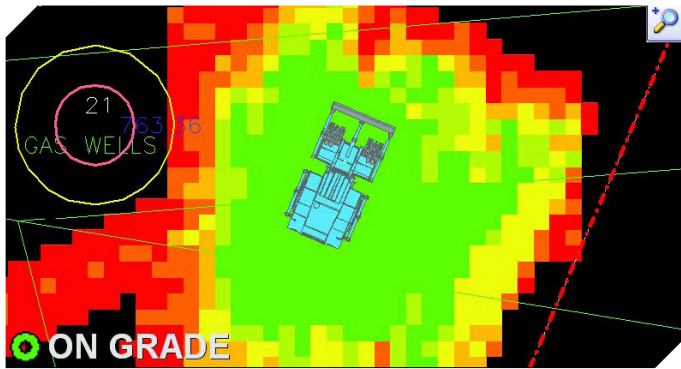
# Landfill Solutions & Managed Services



# Carlson LandfillGrade

Manage your landfill more effectively and remove the guesswork of landfill compaction with Carlson LandfillGrade machine guidance.

This 3D positioning solution provides real-time information between your machines and the office to increase your productivity.



## Why machine guidance?

Carlson LandfillGrade enables optimal compaction with fewer passes for both lower fuel consumption and lower cost of operation while also reducing machine wear.

The software's accurate daily analysis reporting of actual material placement enables landfill operators to increase density and make best use of the landfill.

In the field, the Landfill Grade software gives operators easy-to-use and real-time information so they can both optimise airspace and manager their slopes and fills. In the office, the Command and Control software provides real-time information so managers can see and manager key performance indicators such as

## Key Benefits

- Track your compaction in real time with colour mapping
- Dynamic Data Exchange (DDE) allows two machines to share data real time for maximum productivity
- Reach optimum density in less time
- Generate density and volume reports when needed
- Minimise daily cover
- Productivity analysis and reporting from anywhere



### Safety

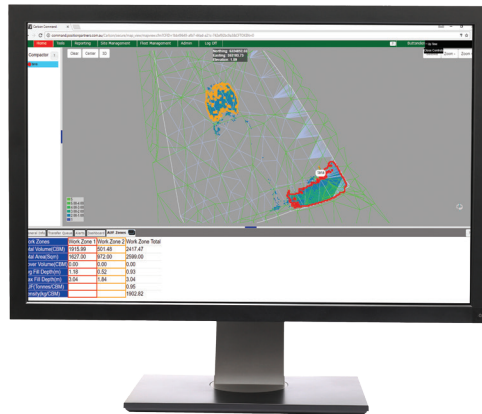
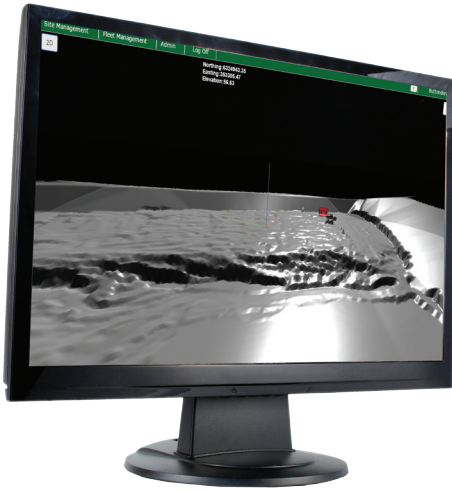
- Improved operator situation awareness through the constant and accurate display of the machines position relative to fixed infrastructure or hazards;
- Fixed Hazard Collision Warning technology provides audible and visual alarms when the machine gets too close to predefined hazards such as buildings, slump zones, prohibited tramming areas and so forth
- No survey or grade check is required and with wireless data exchange, there is no need to have personnel gain access to machines to upload/download data.

### Key Features

- Eliminate overfill for outer design slopes
- True recording of actual material placement
- Avoidance Zones such as gas wells and hazardous material placement
- Import scale house weights for daily density calculations
- Ability to report Critical measurements; Position, machine pitch and roll and machine direction (forward/Reverse)
- Collect and stake points
- Heartbeat Connectivity connects machines and office
- Remote monitoring of machines with Carlson Fleet Manager Office
- Historical playback for machines and material placement
- Customisable screens
- Ability to produce colour cut/fill plans based on sites model
- Hazardous material placement location logging
- Direct import of .dwg, .dxf, TN3, GC3, LN3, TIN, GRD, and more.



# Managed Service



Position Partners Managed Service is designed to offer your landfill all the benefits of Carlson Command whilst saving you time by maintaining data integrity, generating and distributing reports and managing the database on your behalf.

## Managed Service includes:

- RTK Network Base station access
- Weekly AUF (density) Report
- Monthly Utilisation Report (Uptime, Runtime and Idle Time)
- Access to Command View - Mapping, Project Creation and Project Push
- Remote access to onboard system
- Automated Daily Data Backup
- Position Partners Managed Cloud Server (Microsoft Azure Virtual Machine)<sup>3</sup>
- Additional Customised reports available on request

## Carlson Command

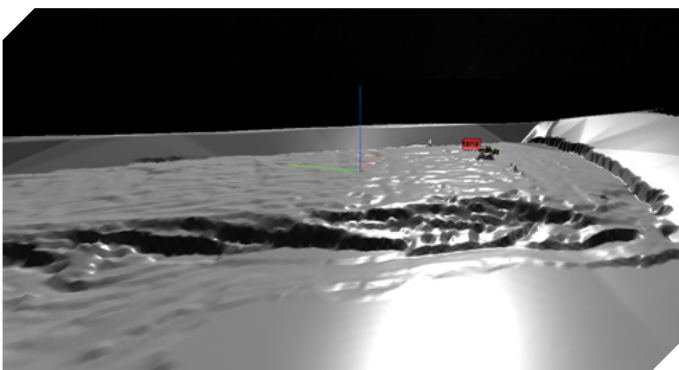
Carlson Command is a control, monitoring and data management system that transmits data from the machines to the office and from the office to the machines; increasing both safety and productivity and enhancing training opportunities.

Managers can see and monitor multiple machines in multiple views, including plan view, from any remote location as long as they have an internet connection. Machines' positions can be viewed, cut/fill and elevation monitored in real time, and managers can even instant message each machine.

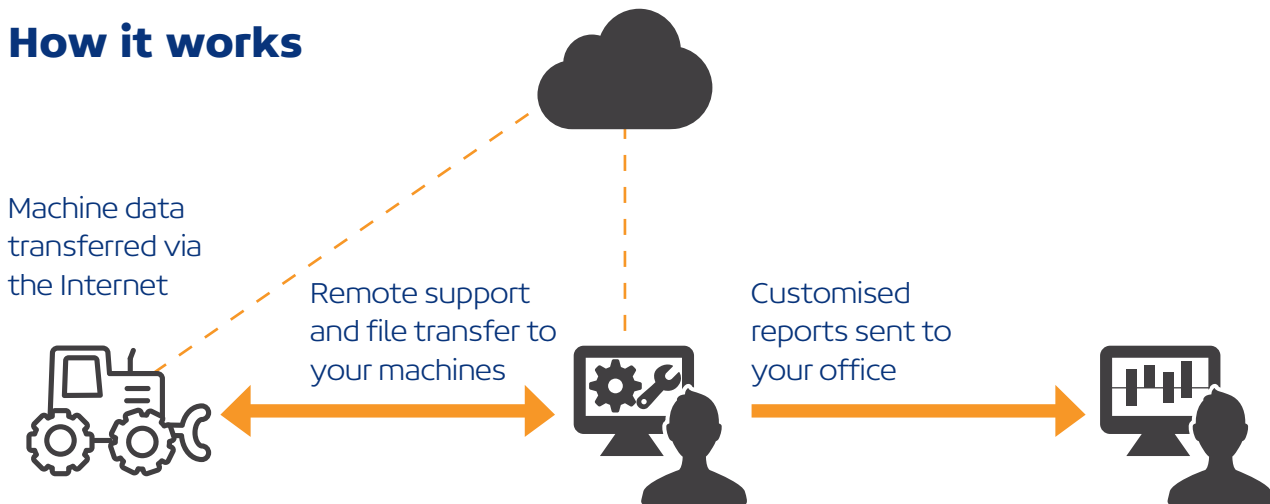
The system transmits through cellular, standard wireless and mesh networks. For sites without remote connectivity, data can be stored in the machine and copied to a thumb drive for post analysis.

## 3D Surface Visualisation

Carlson Command is also a powerful tool for viewing the position and surface update information created in the ProTools engine. It combines 3D Surface modelling, historical playback, and position trace into one seamless interface allowing the user to get a real time feel for the surface creation in ProTools from the GNSS Position Data provided by the Carlson Grade system.



## How it works



### REAL TIME

#### Real-time monitoring

- Monitor multiple machines in multiple views, from any location using the web as long as they have an internet connection
- View machine positions on site
- See cut/fill and elevation levels in real time
- Instant message each machine with updates



#### Report types

- Weekly/monthly AUF (density)
- Volume reports
- Efficiency reports
- Daily work area
- Real-time cut/fill colour map

#### Reports include

- Uptime
- Idle time
- Delay & downtime tracking
- Operator time sheets
- Project tracking

## Warranties, Support & Maintenance

### Manufacturer's Warranty

#### Warranty terms:

- Serial numbered items are covered by a one year "back to base" warranty
- Cables and batteries are covered by a 90 day "back to base" warranty
- Installation is covered by a 90 day warranty
- Field Support labour and travel is chargeable at standard rates

#### Notes:

1. "Back to base" means, returned to authorised Position Partners workshop within Australia & New Zealand.
2. Repairing or supplying service exchange components will be at the sole discretion of Position Partners

# Technical Support

Position Partners is here to ensure you get the most from your landfill machine guidance with fast, comprehensive support when you need it. Our technicians are experts in their field and with our remote service capabilities we can solve most technical issues that arise without the need to visit the machine(s) in person.

## Powered by Tokara Link

Tokara Link is developed locally to suit the evolving needs of our customers in the Australian landfill industry.



**tokara**  
Link

In addition to providing the essential connection to GPS networks for your machines, Tokara Link also enables Position Partners' technicians to connect directly to your machine via a small telemetry link that enables fast, hassle-free remote support.

Tokara Link puts a **virtual technician by your operator's side.**





## Support packages include: To



Annual Tokara Link hosting & data



Tokara Link phone & email support\*



Web portal access for downloads & support videos

**NO CHARGE**

No charge for hire equipment during warranty repairs

**50% off**

Hire equipment while damaged equipment is repaired



Software upgrades as required



Annual machine inspection

**VIP**

Priority response for all support and repairs



Annual support summary report

\* Monday - Friday 8:00am to 4:30pm



### AllDayRTK – Enabling Geo-Precision

AllDayRTK is a Continuously Operating Reference Station (CORS) network that delivers accurate, reliable RTK GNSS positioning. Eliminating the need to setup and maintain a temporary base station, AllDayRTK is a subscription service that gives you increased flexibility and ultimate reliability.



### About Position Partners

Position Partners is Asia Pacific's premier provider of positioning and machine guidance solutions for mining, civil, land management and building activities. At Position Partners, we are committed to increasing productivity for our customers and building lasting business relationships around high calibre positioning activities.

Position Partners can provide industry experience and can make recommendations on options for acquiring and utilising positioning systems. Having this flexibility empowers the customer to make informed decisions on the customisation of procurement options to suit the particular project allowing for technical excellence whilst providing cost effective solutions based on the project circumstances. These include hire, outright purchase, hire to buy and hire with the option to buy.

Our point of difference is realised with effective asset management, timely product support and resourcing to ensure dedicated personnel are available. In addition to the dedicated site resource, Position Partners also offers support tiers with response and escalation times for emergency or unscheduled breakdowns.

In Australia, SEA & New Zealand we are exclusive Carlson machine control distributor with extensive experience in the supply and support of advanced machine guidance systems. Carlson offers a consistent user interface across all machines and supervisors.



### Workshop Services

Comprehensive product service, maintenance, repairs and advice are provided via our local service centres. We guarantee all our work and can supply calibration certificates to meet QA requirements.



### Training

Initial "getting started" training is provided on all systems. Subsequently, comprehensive on-site training can be provided for all operators and office personnel, tailored to the site and experience.



### Hire or lease options

The full range of systems, from construction lasers, to GPR and industry-leading RPAS platforms, can be hired or leased to suit any application and provide financial flexibility.



**Get in touch today:**

**1300 867 266**

[info@positionpartners.com.au](mailto:info@positionpartners.com.au)

[www.positionpartners.com.au](http://www.positionpartners.com.au)

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