

Solar Solutions

Pile Driving Technology



Carlson PDGrade & Vermeer PD10

Drive more piles, more accurately every day with our semi-autonomous pile driving solution that combines Carlson PDGrade machine guidance with the Vermeer PD10 pile driving machine.

Designed specifically for solar farm applications, the solution will save time, money and increase productivity on all sizes of solar farm.

Why machine guidance?

Carlson PDGrade speeds up the pile driving process and enhances accuracy by giving machine operators real time information about the location and depth of piles driven. With the design loaded onto the control box on the machine, machine guidance eliminates the need to manually set out stringlines to save significant time and manpower, whilst increasing safety by decreasing the interaction between people and plant.

In an industry where accuracy is critical to ensure the panel-holding racks fit seamlessly to the posts, adding machine guidance is a simple and effective way to get the job done right the first time with a fast return on investment.

The software's accurate daily analysis reporting of actual piles driven cuts down time spent transferring data from field to office and gives management all the information required to complete the job on time and on budget.

- Eliminate stringlines
- Send design files from the office
- Get every pile right the first time





Vermeer **PD10**
Pile Driver

Key Benefits

- Save money on every pile driven and increase the number of piles per day
- Custom designed technology specifically for the solar farm industry
- Eliminate the need for stringlines and surveyors to manually stake out pile
- Repeatable accuracy from pile to pile and block to block
- Automatic control of final positioning, including mast verticality
- Automatic control of the hammer from start to stop
- Comprehensive local support from Position Partners and Vermeer technicians
- Send design updates from the office
- Seamless reporting from anywhere to keep your project on track and on budget

Vermeer PD10 with Carlson PDGrade

Vermeer's PD10 pile driver offers solar farm pioneers the high-quality, productive pile driving solution this rapidly expanding market demands.

The Vermeer PD10 offers unmatched speed and accuracy, with Australian contractors seeing considerable improvements in productivity. The PD10 features pile guide plates tailored to the pile design, which results in better pile engagement and a subsequent reduction in pile deformation and refusal.

By opening up the machine's CANBUS system to Carlson's research and development team, the two companies were able to produce a highly sophisticated solution for the solar industry.

With the ability to communicate directly with the machine's computer, Carlson's PDGrade technology becomes a semi-autonomous solution that responds seamlessly to every machine movement, significantly improving the precision and reliability of the system.

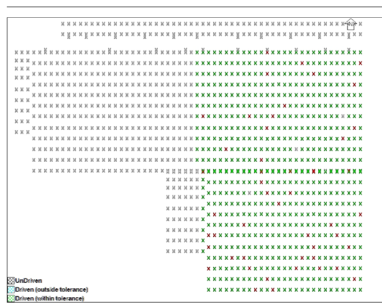
PDGrade Report
Pile File: (A01) 3200-0542-S-0327.A.Fl.pile
Project: BANNARTON.prj

Pattern Summary

Total Number of Piles: 2352
Total Number of Piles Driven: 678
Total Number of Error Piles Driven: 49
Completion Percentage: 28.7%
Accuracy Percentage: 92.8%
Total Pile Driving Time: 18:47:08
Total Time Not Pile Driving: 4:29:42:03:42
Total Transition Time: 00:11:35
Average Pile Driving Time: 00:01:40
Average Transition Time: 00:01:09
Pile Driving Start Time: 1975-01-01T10:00:00
Pile Driving Stop Time: 2018-05-14T10:50:50

Carlson
Machine Control

Pile Plan View





Support for your solar projects

To ensure that your machine control equipment is always performing at its best, the Partnering Services team at Position Partners is here to support you. Our highly trained specialist technicians are committed to providing the highest quality of service and support, with Tokara Link support centres dedicated to ensuring requests are quickly actioned to maximise your machine uptime.

Position Partners Support agreements are customised per site to offer the most cost-effective and tailored solution. Based on your specific requirements, a support agreement can contain a mix of the following optional components:

- Software upgrades
- Priority Service and Support
- Reduced onsite labour rates
- Onsite training
- No charge rental components (serial numbered items) while items are in for repair
- Service exchange components in the event of product failure
- Access to Position Partners support site
- Access to Tokara telemetry support
- Telephone support

Tokara Link - fast, remote support when you need it

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



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.**



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:

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Shaping New Dimensions