

Many have tried ... but all have failed – until now!

New cutting-edge GPS system slashes positioning mistakes and escalates productivity



- ⊕ **Does your current GPS system let you down?**
- ⊕ **Does it fail spectacularly just when you need it most?**
- ⊕ **Is it as accurate as you really need?**
- ⊕ **Are inaccuracies adding hours or even days to your production schedule?**
- ⊕ **And ... are your costs spiralling out of control?**

Many have tried to produce a highly accurate GPS piling system but none have succeeded until now!

In a world first, the Synergy GPS Positioning System combines the advantages of laser with GPS in one versatile and easy-to-use system. Only now can piles be positioned super-accurately to within +/- 3mm (1/4") vertically and +/- 10mm (1/2") horizontally of their proper point. Plus, installation is fast and super-easy!

Your days of lost productivity due to using unreliable survey pins are over for ever!

At the heart of the Synergy GPS Positioning System is a brand new, revolutionary technology-leading system. It combines a rotating laser for elevation control with the accuracy of a precision GSP for pile location. Add the flexibility and multiple user capabilities of GPS, and you have the only jobsite solution you will ever need.

What's more, the on-screen data allows you to reach the finish position faster with absolutely zero need to repeat tasks.

How it works

Unlike conventional GPS laser control technology, the Synergy incorporates a precise dual plane laser which sends out a predetermined "laser plane". The machine-mounted sensor provides a final pile height at accuracies never before imagined.

Need more coverage? You can set up numerous laser transmitters for multiple piling machines on you site.

Plus, it accommodates all existing GPS systems with its user-friendly touch screen controls allowing operators to become proficient very quickly.

“ **When you connect the Synergy GPS Positioning System to Groundwork-supplied civil construction equipment you quite simply have the world's best technology at your fingertips.** ”

 **GROUNDWORK**

Your Groundwork Experts

SYNERGY 
POSITIONING SYSTEMS
TRUSTED PRECISION & CONTROL

Synergy GPS Positioning System Components

The Synergy GPS Positioning System has three components:

- A high accuracy GPS base station and survey rover
- A laser transmitter and receiver
- A machine-mounted GPS receiver and control screen

High Accuracy Base Station

The Synergy GPS Positioning System uses a high-accuracy base station that provides GPS correction data over the entire job site. It allows multiple machines to work in high accuracy positioning mode, all from a single base.

Check and verify your survey marks plus create your own topographical designs using the survey rover. Its easy-to-use surveying software also enables you to set out your own job parameters.

Laser Transmitter and Receiver

Utilising a long-range and highly accurate laser transmitter, the Synergy System helps you drive piles directly to their correct height. Simply set the grade, check your height and away you go.

The machine-mounted receiver lets you know when the pile is close to and then at the correct level.

Machine Control Receiver

The machine control receiver binds together the Synergy GPS Positioning System's components. It acts as the interface between the high accuracy base station, pile location and the machine's current position.

Through an easy-to-use full colour touch screen the machine operator is able to clearly identify and position the machine at each pile location, right on the money each time!



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