



Groundwork

GUARDRAIL GPS



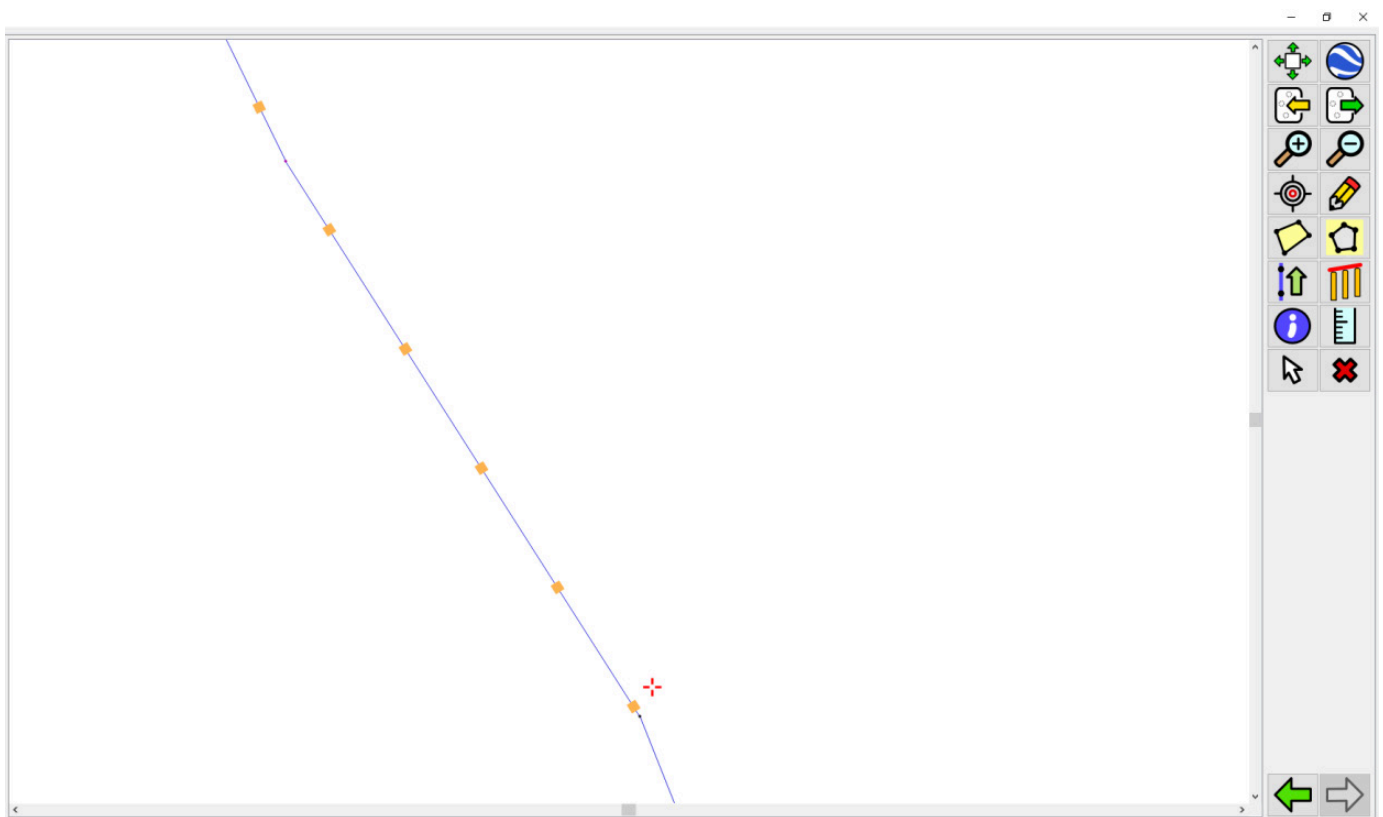
SCOPE OF SUPPLY

STX-SUITE is a handy and prompt solution for the Guard-Rail jobsite.

It is a complete new method to approach the jobsite, starting from the project date until to control the guide of the Piling Machine on the post position following the project guard-rail line composed of several topographic coordinates.

STX-SUITE solution , aid the operator to set the Hammer Piling Machine over the Guard Rail project line without any paint reference line mark on the ground.

The system composed of GPS sensors and a guidance program on Tablet PC , show to the operator, a dot line on the screen (Guard Rail Line) , to follow the position of the post over the project line.



Guardrail GPS

The Guard Rail Project (Main Line showed in Red below) can be imported in the Tablet PC using two way : Target points coordinates (DXF or TXT format) , or collecting the Guard Rail Line directly in the field using a GPS Rover on the Pole.



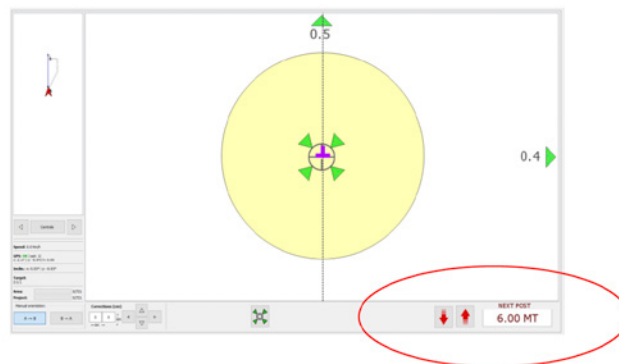
Centimetre accuracy positioning of the piling machine is provided by one Stonex GPS receivers (S800 with 20Hz), installed on the Hammer on an absorber bracket frame integral with the pile driver machine structure.

STX-SUITE SINGLE GPS – INDICATE GUIDE AND SEMI AUTOMATIC GUIDE



GUIDE AND POSITIONING

The operator as soon as defined the main guidance line , drive the machine on the wished point of the first post.

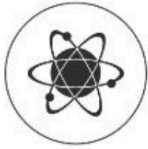


After set fit the first post , it is possible to define the position of the next post , simply input the distance desired from the operator (Ex. 6.00 mt picture up) using the red arrow show in the left down corner of the display .

The Green Arrows representing the horizontal shifts indicate the right direction for the precise positioning of the axes of hydraulic hammer above the identified target spot.

SYSTEM COMPONENTS

GPS PILING MACHINE ROVER STONEX S800 :



MULTI CONSTELLATION

Stonex S800 with its 555 channels, provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BEIDOU and GALILEO) are included, no additional cost.



WEB UI CONTROL

To initialize, manage, monitor the settings of the receiver and to download data using portable or PC, smartphone or tablet with Wi-Fi capability.



6800mAh BATTERY CAPACITY

Stonex S800 is delivered with 6800mAh large capacity lithium battery that gives you up to 10 hours working.



INTERNAL UHF RADIO MODEM

All S800 series models have integrated UHF modem radio. It is possible to order the S800 with the enabled radio or order the receiver without the active radio, and activate it at later time.

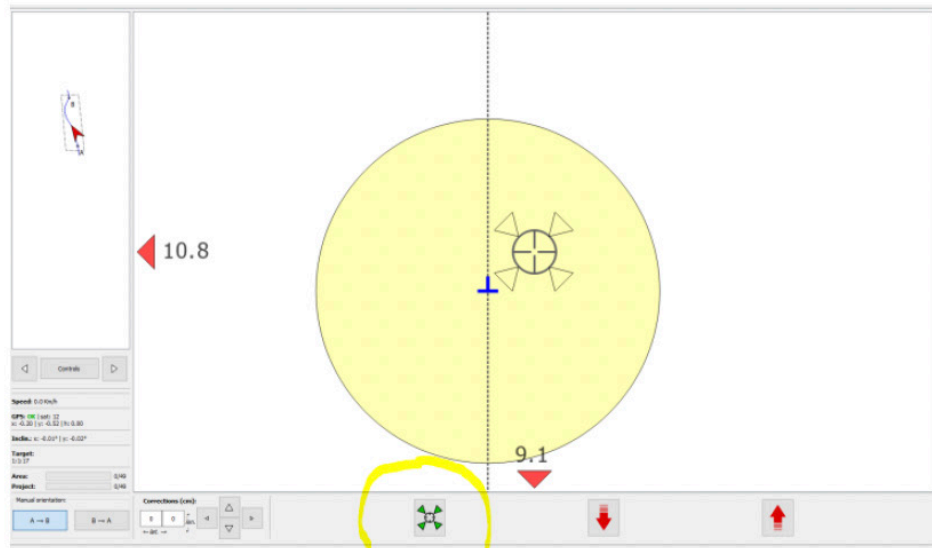


RUGGED RTK

With IP67 Certification Stonex S800 will ensure operations in various kinds of extremely tough environments.



STX-SUITE will control the movement of last alignment of the piling machine, using an Hydraulic interface connected with the X and Y movements . This Auto - Track function will be run from the machine operator using the Green Button (showed below) .



Rugged Tablet PC