

STX-SUITE





Construction & Machine Control

STX-SUITE

STX-SUITE is a handy and prompt system for the design of ground photovoltaic plants and the on field positioning of the pile driver machines.

STX-SUITE allows the planning of the best piling pattern directly on the field (survey with GPS + tablet + integrated software), as well as the loading of existing CAD projects (.dwg, .dxf).

Centimeter accuracy positioning is provided by two Stonex GPS receivers (up to 20Hz), installed on a metal frame integrated in the pile driver machine structure.





PROJECT AND DESIGN

The SOLAR PLANT Project can be generated, importing the local coordinates from different formats (DXF, TXT). A TARGET POINT file will be produced for the GPS navigation purpose.



SURVEY STAKE-OUT

STX-SUITE is a quick and smart stakeout GPS solution made for any kind of operator. A clear guidance layout aids the operator to find the post position with centimetres accuracy.



MACHINE GUIDANCE

STX-SUITE fits on any kind of piling machines, drives the operator on the target point (post coordinates) in manual and automatic mode.



AUTO LEVELLING

A slope sensor with an hydraulic interface can be installed on any machine in order to assure always the best levelling accuracy of the mast along two axis.



ROI

Adopting STX-SUITE solution means reducing production costs. Less operators with high productivity.



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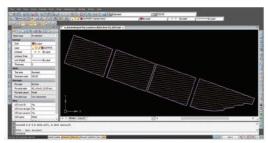
GPS satellite technology for piling of wood and metal structures in ground photovoltaic plants

Two steps make up the Stonex solution for guiding and GPS positioning of photovoltaic plants:

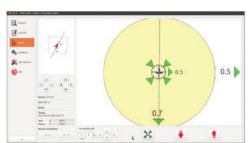
- Survey and Design:
 Preparing the project in the office and importing the files on the tablet (.dwg or .dxf format).

 Alternatively, it is also possible to create the project directly on the field, by surveying the orientation points with GPS and tablet.
- Guide and Positioning:
 Guide the pile driver machine and align it to the row-blueprint by simply following the tablet indication.

STX-SUITE software is specifically designed for this kind of applications and allows elaborating the survey data (stored with GPS), and create the site project in a very quick and effective way. The double GNSS receivers system installed on the pile driver machine allows defining the right-left orientation and the guiding direction of the machine with respect to the reference pile. STX SUITE guides the machine on the exact position, by showing bearings and direction on the tablet. A biaxial inclinometer can help defining the vertical position of the stake during the driving process. Users have to simply align the machine along the direction of the row and adjust the reference mark (on the position of the virtual pile). When the machine position falls within the predefined tolerance, the guiding elements will turn green.







ABOUT US STONEX

Innovation, research and advanced solutions for surveying precise positioning and GPS networks

STONEX® is a multinational company, based in Italy (Lissone, MB), designing and manufacturing high precision surveying instruments for different applications: civil engineering, topography, GIS & Mapping, security, transportation and mining. The company runs operations worldwide (today Stonex branded products are used in more than 80 countries) through a high skilled network of distributors and dealers.



Stonex product range includes:

- Total Stations
- Field controllers GPS/GNSS
- GNSS/GPS receivers
- Handheld GPS/GNSS for GIS & Mapping
- CORS systems
- Laser Scanner
- Software for GIS, Survey and 3D scanning
- Special Projects

Stonex qualify for the high quality, accuracy and reliability standard. Stonex is a certified UNI EN ISO 9001:2008 company.

