



Turchi Daniele Srl

STX-CUBE SP

Solution description

STX-CUBE SP is the ideal system for positioning structures for photovoltaic fields. The software allows a new approach to the construction site starting from the management of project data up to the use of pile-driving machines in the field. The system allows to remove the constant presence of surveyors on the construction site, eliminating the waste of time in marking points on the ground with removable objects or objects subject to alteration during construction phases. The project carried out in the office is projected to the ground using GNSS technology as a communication bridge.

The system guarantees centimetre accuracy in the positioning of structural tracker poles. The System ensures high responsiveness and smoothness of on-screen messages due to 20 Hz communication between the various components.



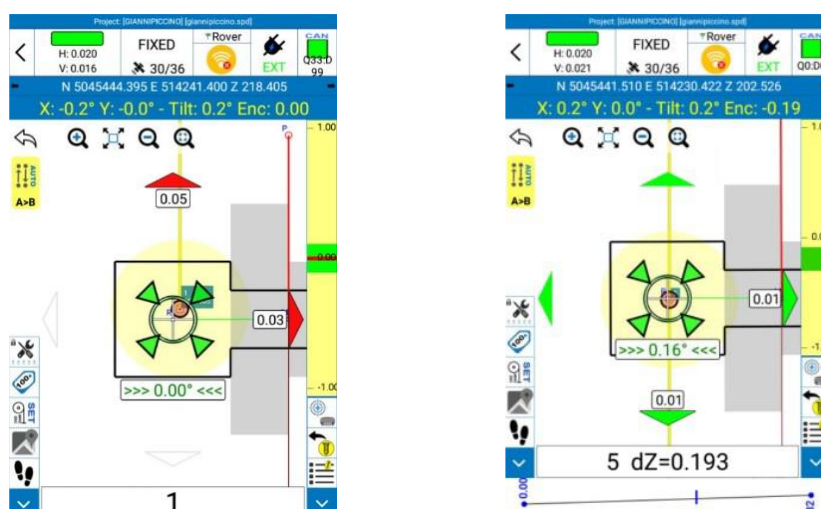
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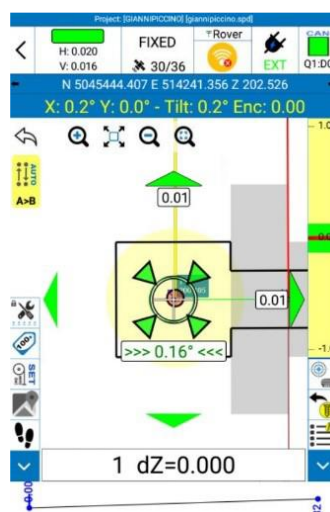
SEMI AUTOMATIC GUIDE

Semi-automatic guidance provides automation of centering movements near the point. The operator in this case is required to drive the machine until the sight enters the automation area. In this area the software automation will conclude the centering operation by performing all the movements necessary to have the hammer head level on the point. If the pile head height has also been entered in the design and the machine is equipped with the striker slide motion detection system, the software will allow the pile-driving operation to stop when it arrives at the set height.



For height control we use a wire encoder mounted at the top or foot of the column, and the wire is anchored to the striker.

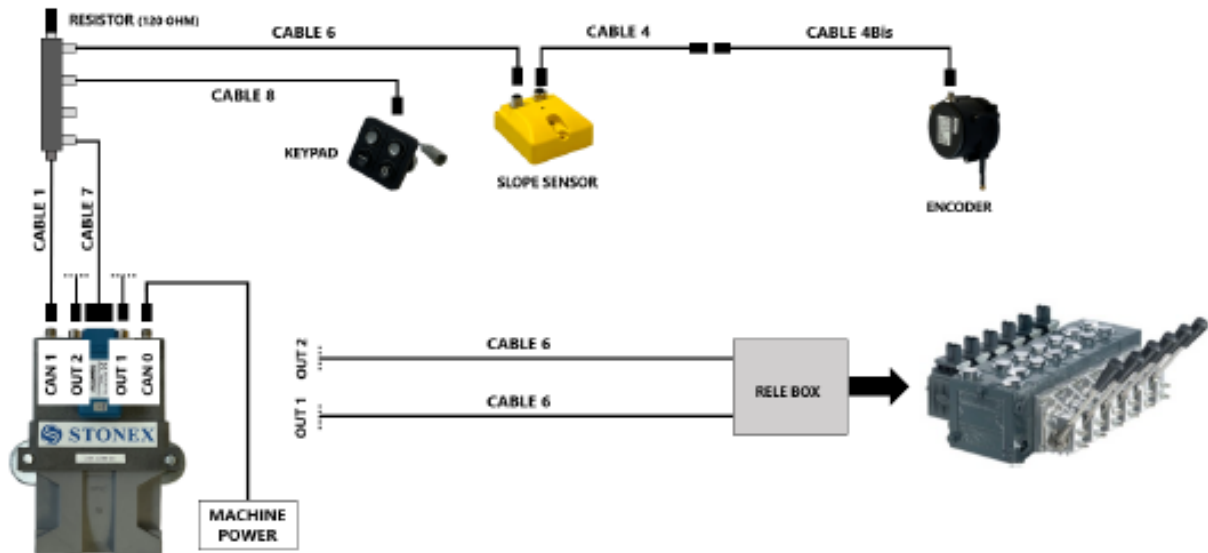
The tapping operation if handled by the software will be done proportionally, as the software will decrease the force and speed of tapping as the target height is approached.





CONTROL DIAGRAM

JB100 WIRING



GPS DIAGRAM

