

STX-DRILL



SPECIAL PROJECTS

Construction & Machine Control

STX-DRILL

STX-DRILL is a GPS guidance system for jet grouting capable to determine the correct planimetric position of the columns, the verticality of the drilling tower and the deviations from the designed coordinates.

STX DRILL guides the operator straight to the designed coordinates thanks to the easy and intuitive user interface. It is only required to drive the machine and match the head and tail edges of the pole against the crosshairs displayed on the screen.

Once the placement is finished, the system provides the exact excavation depth to be reached.



PROJECT AND DESIGN

The 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. The Project coordinates include the depth and the tilt information.



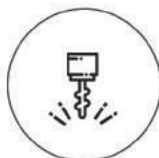
MONITORING ACTIVITY

Thanks to a remote connection it is possible to monitor the progress of the work and update the projects in real time.



MACHINE GUIDANCE

Manual positioning of the probe on the post is no longer required, the operator is guided directly to the designated drilling spot in a precise, easy and faulty-free way. Each function can be controlled through a display installed on the rig.



VISUALIZATION AND STORAGE

Thanks to STX-DRILL it is possible to assess and store the position of the drilling point, to verify the vertical/slanted position of the probe, the exact beginning, final position of the treatment, the points made and those still to be treated.



ROI

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



STX-DRILL

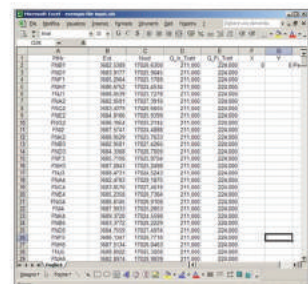
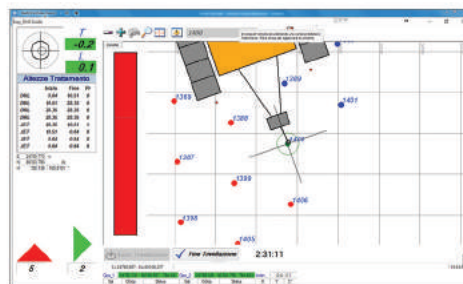
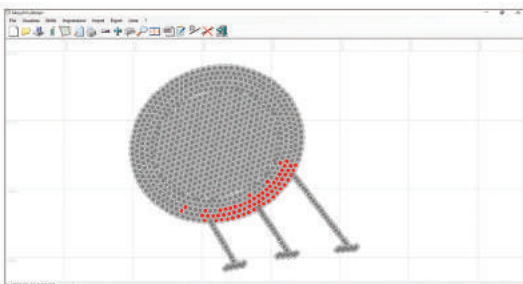
Satellite technology for high precision Jet Grouting works

The STONEX SATELLITE GPS positioning solution for the Jet-Grouting is divided into two operational steps: Office Job & Field Job.

The project data processed in the office can be shared in real time with all operators on the jobsite using a Google Cloud Storage, a storage service based on the Cloud that allows you to store and access data easily on Google's infrastructure. The data received from the GPS antennas are transmitted through Wi-Fi to mobile devices (smartphones, PDAs or tablet). The hole coordinates are recorded and can be displayed on the map in text and graphics format. Import Format: DXF or TXT.

Advantages

- Abandonment of the manual method to place the probe on the picket;
- It guides the operator directly on the project drilling point with centimetric accuracy, in a simple and fast way;
- Control of all functions through a display mounted on the drill;
- Checking of the verticality probe;
- Exact depth of drilling start and end;
- Reduction of manual errors in the positioning procedure;
- Record and store all data during the work in special Reports file shared on Cloud.



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.

STONEX AUTHORIZED DEALER

STONEX®
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