

WORKSTATION FOR OVERHEAD LINE AND TRACK SURVEYING

tcat® workstation has been developed and patented by TELICE S.A. to survey and monitor overhead line contact (height, stagger,...) and track (track gauge, cant,...), obtaining the position of different elements in absolute coordinates by working in conjunction with a robotic total station. Because of its speed, simplicity and accurate measurements, this pioneering system represents a great advance in the area, achieving accuracy, consistent measurements and time saving of more than 50% on the different tasks. With these features and the variety of parameters it can obtain, tcat® is suitable for both public administrations and assembly and maintenance companies.



FEATURES

- Equipment battery life of over 7 hours
- Does not take up a track
- Does not require to cut off the overhead line supply
- Easy to move and store
- A single device with several functions
- Possibility of working in absolute coordinates
- Specific, simple and easy-to-use software application
- Adaptable to any track gauge
- Able for rigid and flexible catenary systems
- Able in bad weather conditions

ADVANTAGES

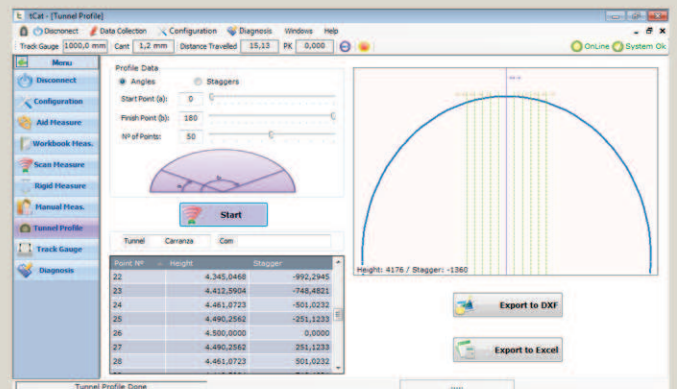
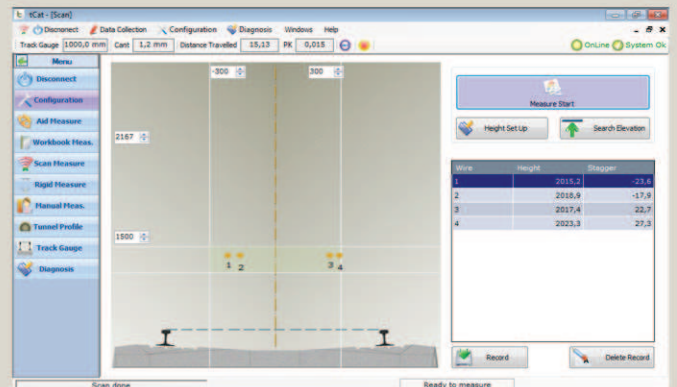
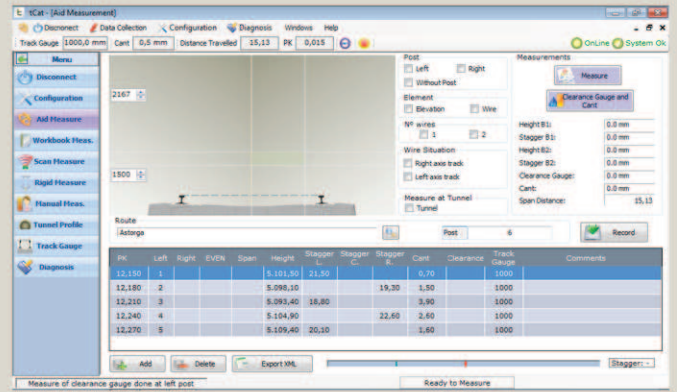
- **Precise measurements.** Repeatability and speed measures
- **Automated database.** Graphic and numeric display of values, exportable to xml, dxf, ...
- **Errors elimination in transcribing the results**
- **High performance on overhead line contact surveying works**
- **Sturdy and light design**

OBTAINED PARAMETERS

- Track gauge
- Cant
- Distance travelled
- Clearance gauge at post
- Wire height and stagger in rigid and flexible catenary
- Tunnel profile
- Chord offset
- Obtaining absolute coordinates of any element

PRECISION SENSOR

- **Laser distance meter**
Precision ± 1.5 mm. Range 0-65m.
- **Inclinometer.**
Precision $\pm 0.3^\circ$ mm. Range $\pm 10^\circ$.
- **Odometer.**
Precision 1%.
- **Robotic Total Station.**
Precision 1" or 0.5"



SOFTWARE tCat®

- Intuitive and easy-to-use software.
- Customizable according to the needs of each client.
- Several work possibilities: storing measured in the database, sortable by routes and export to different formats, or import reference data, for a faster search, from workbooks.
- Display of the obtained profiles and export to dxf and xml.