Tiny**Mobile**Robots

TinySurveyor

World's fastest robot for stake out

GNSS options
The TinySurveyor can integrate with your existing GNSS equipment. The robot integrates with a total station for height measurements as well as stake out at GNSS restricted areas.

User-friendly tablet solution
Advanced stake out tasks can be completed with an easy-to-use tablet interface. Task-specific settings can be adjusted easily between jobs.

Full integration
The TinySurveyor integrates easily with leading equipment manufacturers such as Topcon, Trimble and Leica. Sold worldwide, it is a proven and reliable solution for the surveying industry.

Many applications
Land surveying, solar park layout, event preparation etc. Upload your layout design in CSV or DXF format to the robot via USB and start saving time.

TinySurveyor FAQ

Here is a list of the most frequently asked questions (FAQ) or, as we like to call them, Facts And Qualities, about the TinySurveyor robot.

For the complete list, click here to view the FAQ on our TinySurveyor website.

What are the main uses of the robot?

The TinySurveyor is designed to make stake out work more efficient. Many of our customers find the robot particularly efficient in premarking road lines and setting out points for eg. photovoltaic parks. With minimum setup, it will drive autonomously to defined points and along defined lines. The spray tool allows users to set out points and lines, dashed or continuous.

Who are using the robot?

The robot is used by surveyors, engineers and road line markers in USA, Ireland, Norway, Denmark, the Netherlands, Belgium, Switzerland, Australia and New Zealand.

How accurate is the robot?

You can expect an accuracy of 1-2 cm. This can, however, vary from country to country. In open motorway environments, the accuracy might be even better.

How does it connect to a total station?

This depends on the make of the total station. The connection can be established either by bluetooth or by using the total station controller and a cable connecting the controller to the robot.

How do I control the robot?

You control the robot using the included tablet which connects via mobile network or bluetooth. The user-friendly interface allows you to send jobs directly from your USB key to the robot, adjust robot settings and control the robot manually.
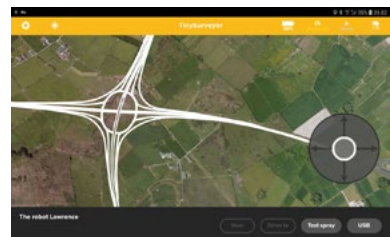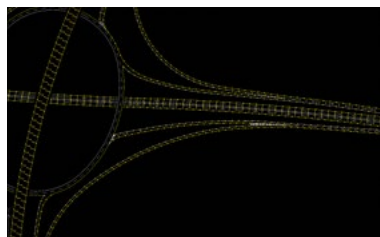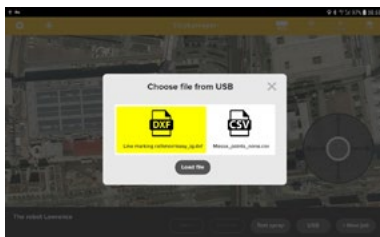
How long does the battery last?

With a fully charged battery, you can expect the robot to work continuously for at least 8 hours.

Which data formats are supported?

The robot supports commonly used data formats, including GEO, DXF, CSV and LANDXML files.

What is the reach of the tablet?

The tablet reach is up to 100 m / 109 yd. For long range control, you can use a Taranis remote control which gives a range of up to 500 m / 547 yd.

How does it handle uneven surfaces?

The robot can work on uneven surfaces like grass fields, dirt pitches and gravel.

Does it only work on roads?

The design of the robot makes it able to manoeuvre in many different environments, even in rough terrain. If the caster wheel cannot overcome a challenging surface, the larger motor wheels can be set to drive in front.

See the complete FAQ for TinySurveyor on our website.

See FAQ

TinySurveyor at work

As-built surveys
TinySurveyor performing as-built surveys during highway construction project in Denmark.

Premarking
AF Gruppen, Norway, setting out dashed lines as premarkings for line marking machines.
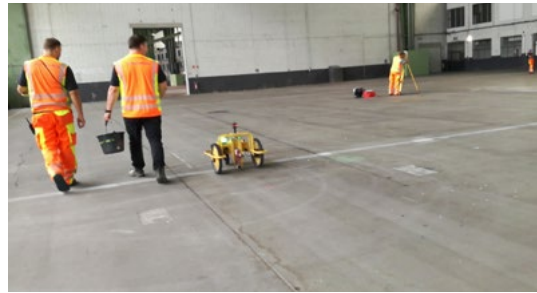
See more cases on our website and hear what our customers say about the TinySurveyor.

See Customer Cases

Stake out points
Integration with total station for setting out 250 points for trade show booths at
Flughafen Tempelhof, Berlin.


Solar park layout
Setting out points based on CSV data
for solar park layout.

Specifications

Features	
Positioning	GNSS and total station
GNSS options	Use your existing GNSS equipment or use TinyPreMarker with built-in GNSS
Flexible configuration	Adjust robot velocities, marking parameters and marking calibration
User interface	User-friendly tablet solution
User control options	Remote control for long range control up to 500 m / 600 yd
Tilt compensation	Automatic compensation when working on sloping surfaces

Usage	
Max marking speed	4 km/h / 2.5 mph
Weatherproof	Withstands rain, wind and rough terrain
Status indicator	Robot status visible from long distance
Data formats	CAD data (DXF) and CSV data
Marking options	Mark points and lines (straight or curved, dashed or continuous)
Job creation	Collect points to create new marking job

Structure	
Weight excl battery	18 kg / 40 lbs
Dimensions (LxWxH)	804x688x491 mm / 31.7x27.1x19.3 in
Spray tool	Adjustable spray tool, max can size Ø65x300 mm

Battery	
Weight	4 kg / 9 lbs
Type	Replaceable li-ion battery
Performance	8 hours per charge
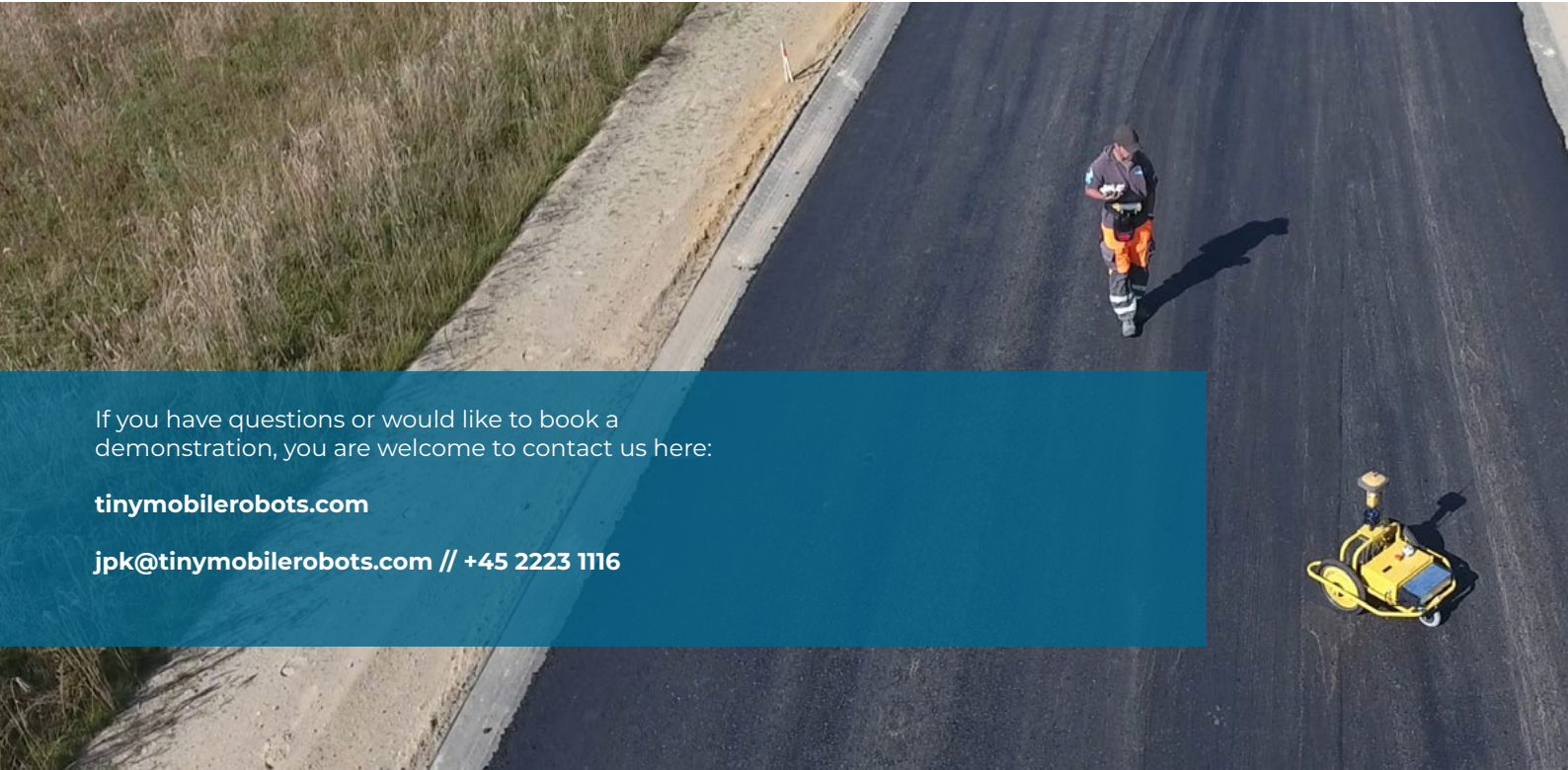
If you have questions or would like to book a demonstration, you are welcome to contact us here:

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