TinySurveyor

Automated stake-out and pre-marking

Your New Colleague

The TinySurveyor is the ultimate high-precision instrument for the surveying and infrastructure industries. It has an unparalleled ability to execute large tasks up to 10x faster than traditional methods.

The TinySurveyor is used for a wide range of projects, including

- **Large scale stake-out**
- **Road pre-marking**
- **As-built surveys**
- **Topography**
- **Surveying**
- **Set-out**

Quality

- Repeatable results with GNSS and total station
- Accuracy 1-2 cm / 0.4-0.8 in using GNSS
- Millimeter precision using total station
- Substantial quality improvements in project execution

Efficiency

- Stake out up to 600 points per hour
- Up to 10x times faster than traditional methods
- Operation for 8 hours on one battery charge
- Rugged tablet to operate the TinySurveyor

Safety

- Operate from the safety of a vehicle or behind safety barriers
- Reduce fatigue and body strain on operator
- Operator can stay out of live traffic areas
- Emergency stop (manual and automatic)

A Need For Efficiency Gains

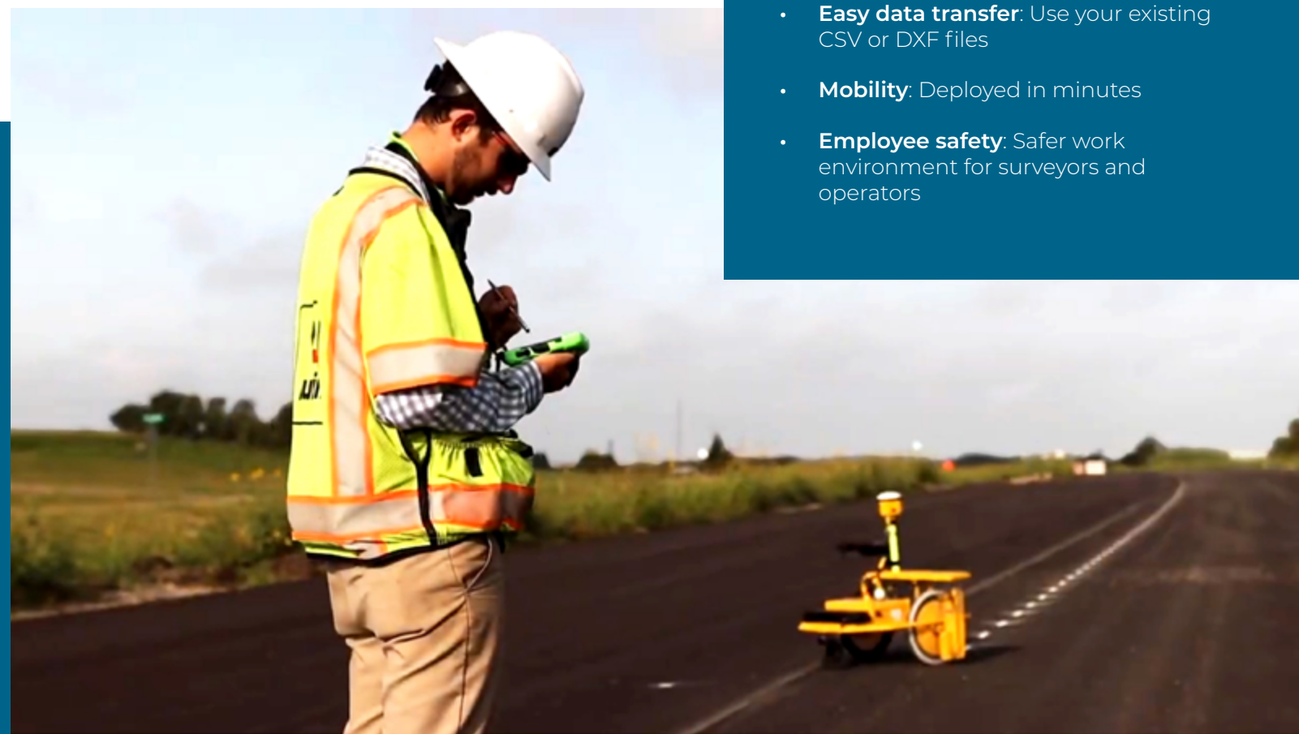
The infrastructure, road and construction industries are major economic sectors but often plagued with inefficiencies and low productivity.

> **The scale of projects means that even small efficiency improvements lead to substantial cost savings.**

The ability to mark out existing data or collect new data at high speed and with high accuracy makes the TinySurveyor the ideal solution for repetitive, time-consuming and labor-intensive tasks.

Key Outcomes

- **Productivity**: Stake out up to 600 points per hour
- **Performance**: Tirelessly execute large tasks
- **Integration**: Use your existing GNSS equipment or use built-in GNSS
- **Easy data transfer**: Use your existing CSV or DXF files
- **Mobility**: Deployed in minutes
- **Employee safety**: Safer work environment for surveyors and operators



Designed For Efficiency

> “What would have taken five weeks, this little robot has done in one week.”
>
> Paul Coughlan
> Head of Infrastructure Development
> Brisbane Airport

For a new runway at Brisbane Airport, The TinySurveyor was used to lay out 50 km / 31 mi of multiple line styles and lengths. The job was completed in five days, allowing the surveyors to reduce time, improve efficiency and focus on more project critical tasks.

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TinySurveyor Tablet

The accompanying tablet gives the operator full control of the robot as well as the parameters of the job in question. For instance, the operator can customize marking settings, apply projection shifts and adjust robot velocities directly from the tablet.
Existing CSV and DXF files can be sent directly from the tablet to the TinySurveyor, allowing operators to start working minutes after arriving on site.

A Few Customer Cases

Highway projects

The TinySurveyor has been used extensively in several highway projects in the UK. Operators boosted their pre-marking by a factor 6.

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Harbor set-out

The TinySurveyor was used to set out points for vertical drainage installation on a construction site in Denmark. 250 points per hour were marked.

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Pier pre-marking

The TinySurveyor pre-marked asphalt coating strips on a new pier construction at the Calais Harbor in Northern France.

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Indoor set-out

Using total station integration, the TinySurveyor marked out the booth positions for an indoor exhibition with high speed and accuracy.

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Get in touch

For more information, please contact:

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