

DRONE AND LASER SCANNING

Excellence and Experience in Dorne Laser Scanning



surveyors
@ work



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Laser Scanning Experience

About Us

Surveyors at Work are recognised industry leaders in all aspects of surveying. Our survey team consists of highly skilled surveyors with vast experience in large roads, construction and mining projects. We are at the forefront of the latest in surveying technology, with a focus on laser scanning, spanning over 15 years.

Some of our Laser Scanning Clients

- Badge
- Brisbane City Council
- Department of Transport and Main Roads
- Ergon Energy
- Fraser Coast Regional Council
- Fraser Coast Anglican College
- McNaughton Mining Services
- Bundaberg Sugar
- Mechanical Engineers Australia
- MHW Global
- PBS Building
- Hyne Timber
- Pensar Structures Pty Ltd
- Callide Power Station
- Mahalo Pipeline
- Rheinmetall Munitions Factory
- SGQ Pty Ltd
- Hervey Bay Hospital
- Wide Bay Water



Our team have the knowledge, experience, technology and commitment to provide your business and projects with the right people to ensure success.



Our Laser Projects

Aubenville Wastewater Treatment Plant

Scope: Scanned all existing clarifier tanks, relevelled base, located centre of tank for new installations.

Deliverables: Point Cloud and Report.

Stockland Hervey Bay Target

Scope: Pre-design and post-design laser scanning, identify all existing services.

Deliverables: Point Cloud and TruView.

Stockland Hervey Bay Fresh & Save

Scope: Pre-design laser scanning for design and construct of new Fresh & Save fit out.

Deliverables: Point Cloud and TruView.

Downer - Maryborough

Scope: Laser scanning for replacement of industrial concrete slab, repair/replace internal infrastructure, volumes for large machine removal planning.

Deliverables: Point Cloud and TruView.

Main Street Road Repair

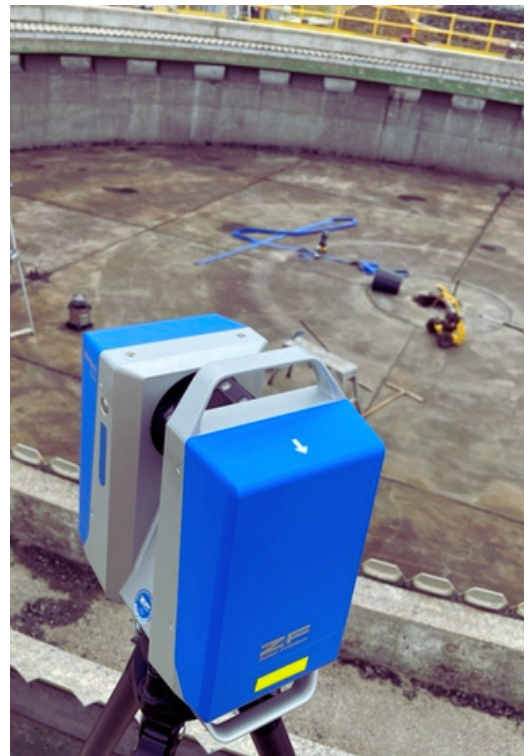
Scope: Pavement laser scanning for extraction of pavement level to avoid lane closures and night works.

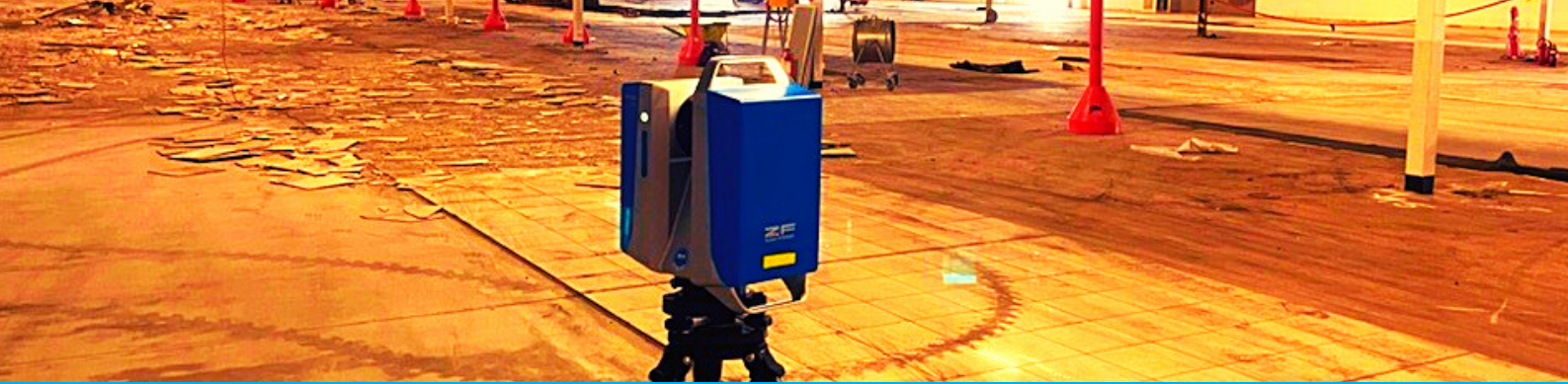
Deliverables: 3D Strings, Tinned surfaces.

Hyne Timber - Tuan Mill Clip Bunker

Scope: Laser scanning for design of safety improvements to concrete panel walls.

Deliverables: Monitoring movement and Report.





About Laser Scanning

3D Laser Scanning delivers uniquely accurate surveying of real-world environments that simply can't be achieved with traditional surveying.

Whilst conventional surveying allows the measurement of individual points at any given time, 3D Laser Scanning creates an accurate spatially correct 3D model or point cloud of the scanned site, which can be manipulated with software to register accurate measurable information.

If you are faced with the complex mapping of plant infrastructure, reverse engineering, mines, roads, bridges, railways, environmental vegetation - 3D Laser Scanning delivers invaluable information. It certainly comes into its own when you are faced with dangerous sites where downtime of the infrastructure is precious, and you require a complex three-dimensional spatial data set.

Why Laser Scanning

- **Accurate and efficient**
- **Beneficial for future planning and design.**
- **Reduce design clashes.**
- **Reduce expensive variations through construction.**

Z+F IMAGER

Our Z+F IMAGER® 5016 combines compact and lightweight design with state-of-the-art laser scanning technology.

The new phase-based laser scanner is equipped with an integrated HDR camera, internal lighting and positioning system. It is one of the most accurate laser scanner available. Combining this with our staff expertise ensures you get accurate and reliable data.



Our Process

Establishing Survey Control

Surveyors at Work establish survey control throughout the site for the life of the project. Our survey targets provide reliable and accurate control.

Survey Pick Up

We complete survey pick up if required.

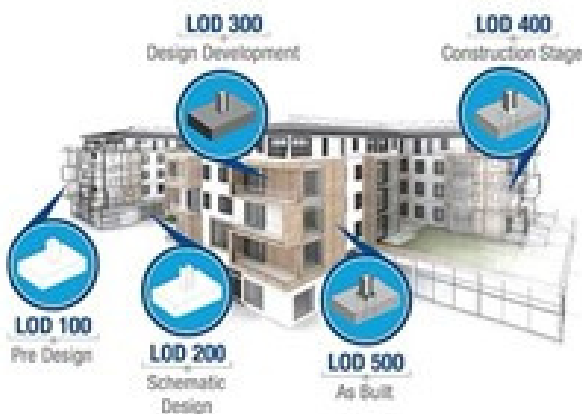
Scanning and Photos

The laser scanner measures millions of points all over the infrastructure from the established survey control. Millions of 3D points are captured and stored in the 3D point cloud with millimeter accuracy.

This is easily converted for CAD files and used by engineers, architects and designers. Data is stored in the Leica Truview Cloud and accessible for CAD and non-CAD users.

3D Modelling

Once the laser scanning point cloud has been completed, a designer can convert the data and model the project.



Deliverables

We can provide reports, Point Cloud, TrueView, 3D Models. With Leica TrueView we can also combine photos into the point cloud.





Consider Laser Scanning

Save time and Reduce Risk

If you require the accurate surveying of roads, bridges, highways and overpasses - 3D laser scanning provides the ultimate solution, safely, quickly and cost effectively. The portable nature of the technology ensures site fieldwork is brief and safe with minimal disruption to high volume traffic areas, access to difficult areas and all with total accuracy. You will appreciate photorealistic imaging for visualisation and the extraction of stringlines all benchmarked by accuracy. Perfect for surface monitoring, volume capture and interrogation.

Plant Infrastructure

If you are responsible for the maintenance assessment, design, planning and or retrofitting of machinery and plant sites, you could significantly benefit from 3D laser scanning. Use the information to create accurate 3D models of the equipment and plan for the future. With accuracy to 3mm, you can manipulate the essential 3D model measurements for as built data interrogation, retrofit design and upgrades. The invaluable data is accessible at your fingertips with simple software applications to access, streamline and fast track future projects.

Insurance Information

Public Liability

- Insurer: Steadfast Business Insurance
- Policy number: SPX010448207

Civil Liability Professional Indemnity Insurance

- Insurer: Solution Underwriting Agency
- Policy Number: 9009535PIN

Work Cover

- Policy number: WFA041087903

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