ORANA Engineering

3D LASER SCANNING SERVICES

Orana Engineering offers 3D laser scanning services to provide accurate, detailed point cloud data and digital images of existing assets so you can design with confidence.

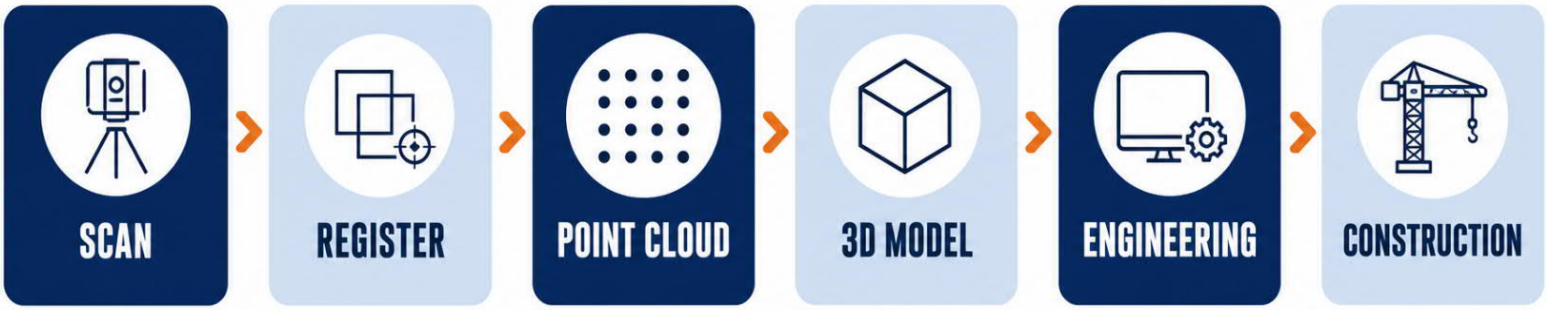
PRECISE REALITY CAPTURE FOR COMPLEX INDUSTRIAL ENVIRONMENTS

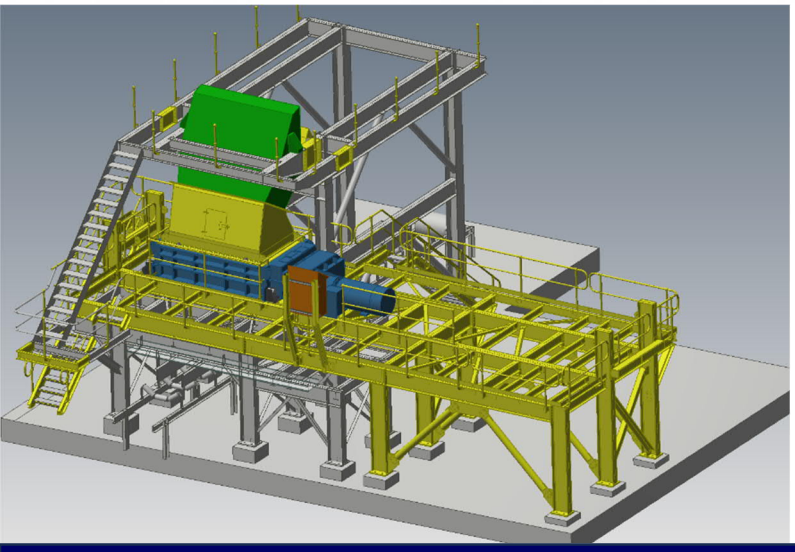


SITE LASER SCANNING

- High-accuracy 3D laser scanning of existing facilities and infrastructure using our FARO Focus Premium S70 scanner.
- Scanning completed in accordance with site safety procedures and permits.
- Experienced personnel with mine-site and industrial project experience.
- Lightweight portable equipment enables scanning in difficult-to-access areas.
- In-house processing delivers high-quality point clouds with rapid turnaround.







3D MODELLING & DESIGN SUPPORT

POINT CLOUD TO 3D MODEL

- Import the point cloud directly into 3D modelling software for detailed design using Autodesk Navisworks, Autodesk ReCap or FARO Scene.
- Design within an accurate representation of the existing plant. Check clashes with the design.
- Integrated high-resolution imagery assists with equipment identification, verification and detailed design.

ENGINEERING & DRAFTING

- Obtain accurate measurements. Reduce site revisits by resolving design issues in the office.
- Capture thousands of measurements during a single shutdown to minimise production downtime.
- Design directly within the scanned environment to improve accuracy and reduce clashes before construction.

ORANA Engineering

TOWNSVILLE | CHINCHILLA | MACKAY

CAPTURE REALITY
DESIGN WITH CONFIDENCE

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RECENT SCANNING PROJECTS

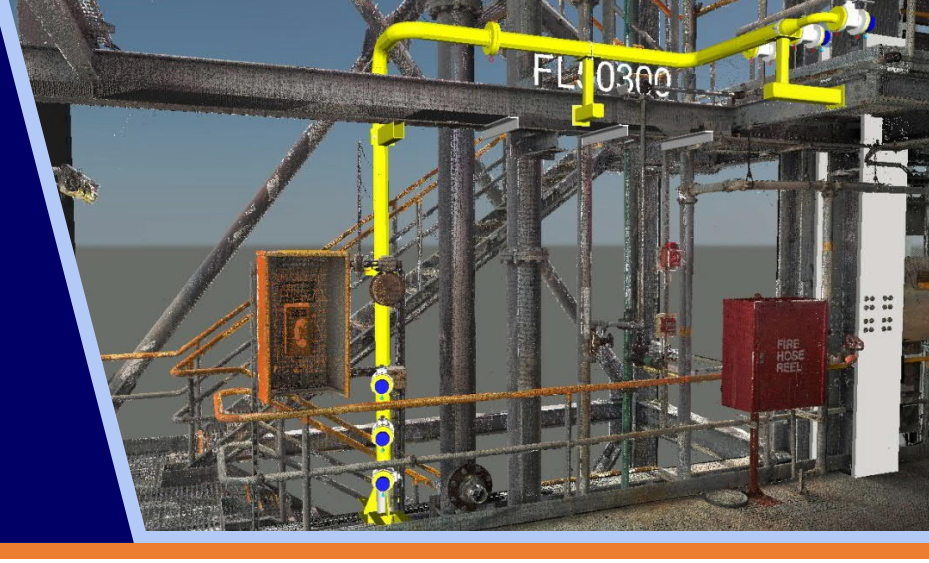
ORIGIN ENERGY
- Compressor Air Coolers
- Well Sites

GLENCORE COAL – OAKY CREEK COAL
- Coal Handling Process Plant
- Tailings Piping

GLENCORE COAL – COLLINSVILLE OPEN CUT
- Conveyor Chute
- Fuel Facility
- Stockyard Mobile Equipment
- Rotary Breaker

CS ENERGY – KOGAN CREEK POWER STATION
- Boiler Structure for Piping Design

NEW HOPE GROUP – NEW ACLAND MINE
- Chute Maintenance Platform



WHY CHOOSE 3D LASER SCANNING?

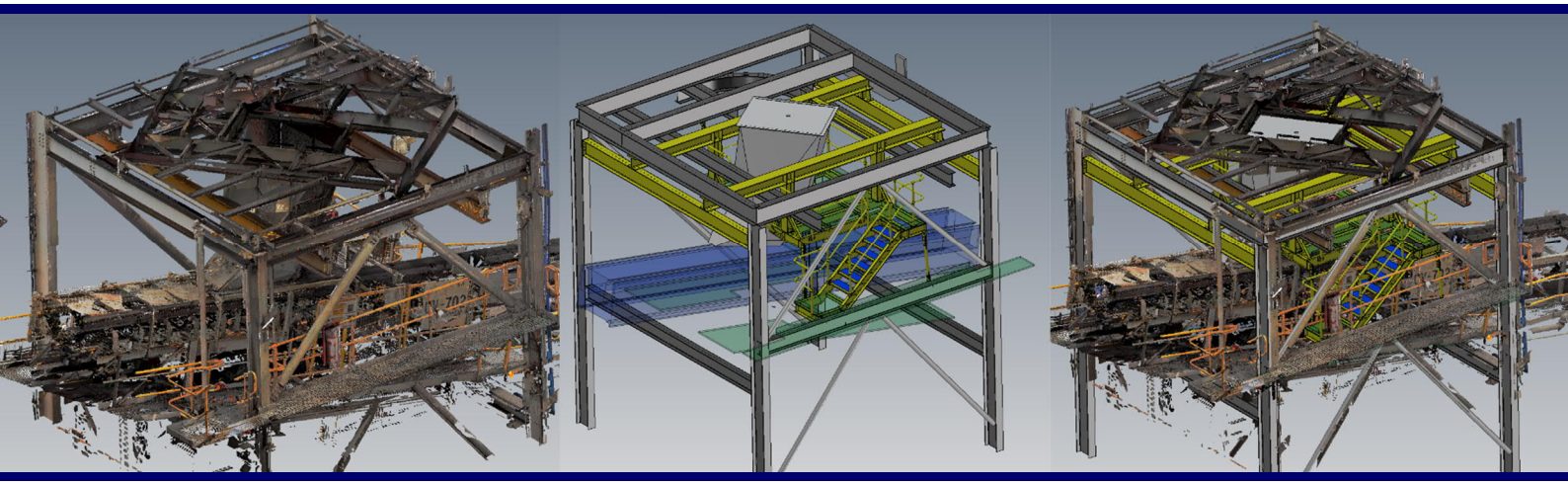
- Millimetre Accuracy
- Reduced Repeat Site Visits
- Faster Engineering Design
- Capture Inaccessible Areas
- Safer than Traditional Manual Measurements
- Improved Design Confidence
- Minimised Construction Rework
- Comprehensive Digital Record of Existing Assets

DELIVERABLES

- ✓ Registered Point Cloud
- ✓ Autodesk ReCap Project
- ✓ FARO Scene Project
- ✓ Navisworks Model
- ✓ Clash Detection Model
- ✓ High Resolution Images
- ✓ High Accuracy 3D Models

EQUIPMENT

Laser Scanner	FARO Focus Premium S70
Range	Up to 70m
3D Accuracy	±2 mm at 10m ±3.5 mm at 25m
Distance Measurement Accuracy	±1 mm
Laser Class	Class 1 (eye safe)



WHY CHOOSE ORANA ENGINEERING?

- Hands-on operations and maintenance experience, building practicality into our designs.
- Tackling smaller multi-discipline brownfield projects is our bread & butter.
- Communication is key - we know that the best engineering can be worthless if it doesn't deliver the clients requirements
- We pride ourselves on reducing our client's workload, not adding to it.
- Ongoing support - our goal is to be your engineering services provider for the long haul, not just one or two projects.
- Our QA systems are core to our business, engrained into our everyday activities.
- We deliver consistency and repeatability through our rigorous procedures and policies.
- All designs are RPEQ supervised.
- ISO 9001, ISO 14001 and ISO 45001 accredited.

OUR WORK

- Coal mining
- Metalliferous mining
- Oil and gas operations
- Industrial services
- Government and commercial

SERVICES

- Engineering
- Design drafting
- Drawing revisions
- Drawing management
- Project management

ORANA Engineering

Through our practical experience, good communication and excellent attention to detail, Orana Engineering consistently delivers multi-discipline brownfield engineering projects on time and on budget.

CONTACT US

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Townsville | Chinchilla | Mackay