



SPECIALISED DRONE SERVICES

Removing **Risk** with Robotics



CAPABILITY— **STATEMENT**

Expedite your data with our inspection services powered by robotic technology

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001 • ISO 45001



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About Us

Specialised Drone Services (SDS) is a Western Australian-owned and operated provider of advanced aerial inspection and survey solutions. We operate under CASA ReOC #7390 and hold DNV-certified ISO 9001 (Quality) and ISO 45001 (Occupational Health & Safety) accreditations, reflecting our commitment to safety, precision, and compliance.

Through state-of-the-art technology we are able to supply high resolution visual data to clients, from cities to the most remote environments in Australia. All our data is processed in house with industry leading software. With our RPAS (Remotely Piloted Aircraft Systems) we are more efficient, cost effective and most of all, safer than traditional methods of data collection.

Our operations are built around a Zero Harm, Zero Incidents philosophy, underpinned by robust safety systems, and strict compliance with environmental and regulatory requirements. With more than a decade of industry expertise, we have the skills, experience, and knowledge to deliver results for our clients.

We are fully insured with Professional Indemnity (\$10 Mil) and Public Liability (\$20 Mil) insurances.





Digitising the world you work in

3D modelling gives clients a clear, accurate and accessible digital view of their physical assets. It strips away guesswork and replaces it with measurable, repeatable data that supports planning, maintenance and operational decision-making.

Using drones, we capture high-resolution imagery and LiDAR that forms the foundation of a precise, detailed 3D model. This approach removes the need for disruptive access methods, keeps personnel out of harm's way, and delivers the coverage required for complex or hard-to-reach structures.

The resulting model provides a full spatial representation of the asset. Users can explore it in a standard web browser or mobile device, inspect structural details, measure clearances, verify conditions, and support engineering or maintenance workflows without returning to site.

In short, 3D modelling offers a reliable baseline record, reduces risk, saves time, and strengthens decision-making across the asset's lifecycle.





Benefits of our robotics



Access Remote Areas

Ability to operate in challenging, remote environments



Minimise Safety Risks

Improve on-site safety for contractors by reducing on the ground operations



Uninterrupted Operations

Operating in marginal weather conditions, in a broader range of surface conditons



Faster

30% faster than traditional inspection methods



Improved Acuracy

RTK - PPK Enabled



Optimise Your Spend

Increase the rate of data whilst streamlining your costs

Elimination of human entry into hazardous environments through “Removing Risk with Robotics”.

Integrated aerial, underwater, and confined-space inspection capability.

ISO-certified management systems ensuring repeatable quality and compliance.

Regional presence supporting rapid mobilisation and reduced environmental footprint.





Overview

We provide reliable, repeatable, and cost-effective solutions for large scale, high risk and complex projects.

Our experienced team utilise industry leading RPAS to deliver high resolution data, with a mission to remove personnel from hazardous environments, gain rapid access to hard-to-reach areas, and reduce the overall task cost and duration.

Our Model Objectives

Minimise Risk

Transferring the risk to robotics by removing personnel from dangerous and hazardous situations.

Reduce cost

Reduced cost versus land and rope-access methods, helicopters, and light aircraft.

Rapid Access

Gain rapid access to previously inaccessible or difficult to reach areas with minimal impact on operations.

Valuable Data

Deliver an accurate and comprehensive dataset of the landscape or asset condition for ongoing monitoring and regulatory reporting.





Clients and Recent Projects

Specialised Drone Services have delivered projects for the Western Australian Government, exploration and mining companies, environmental consultants, heavy industries, and developers.

Recent projects include:

- CBH - 3D modelling of sites including, silos, sheds and ship-loading infrastructure
- Swire Projects - 3D scan of a general cargo vessel
- Krakatoa Resources - Several projects, Tower Prospect consisting of 1250 ha, 60,000 images, 1 TB of data to produce a Digital Terrain Model
- Western Power - LiDAR capture of power lines, poles and corridors
- Department of Planning, Lands and Heritage - Historic railway surveyed between Geraldton and Northampton
- Midwest Port Authority - A three-month scope of environmental monitoring during port dredging operations



Services

We offer a wide variety of services including:
Modelling & mapping, Aerial spraying, Inspection & NDT

Asset Inspection

With RPAS technology, cameras, sensors and experienced operators, many industries can prevent plant shutdowns during inspections altogether, cut routine maintenance time, and reduce the costs and resources required to complete planned or unplanned inspections. RPAS technology seeks to eliminate having to conduct inspections using rope access, scaffolding, rigging and working at heights.

LiDAR

LiDAR is the best option for absolute accuracy and is typically the best choice when the aim is a realistic bare earth model. When integrated with GNSS data and the fact that it's a direct measurement from firing thousands of laser pulses per second ensures a digital terrain model has cm vertical and horizontal accuracy.

Thermographic Inspection

Thermographic inspections using RPAS with radiometric payloads provides a safe, efficient, and high quality solution to heat-based condition monitoring of large scale, high volume, difficult to access and hazardous assets. Our methodologies work to reduce shutdowns with inspections able to occur with a fully operational plant and without putting personnel in harm's way.





Equipment

We deploy the latest robotic technology to produce accurate, reliable 3D models. For aerial capture, we operate the DJI M300 RTK paired with either the Zenmuse P1 or L2 LiDAR payload, selected to match the client's accuracy, density and modelling requirements.

To ensure centimetre-level precision, we combine the aircraft's RTK capabilities with Emlid GNSS base and rover systems. This workflow delivers a solid, survey-grade foundation for high-fidelity 3D models that support engineering, planning and asset-management decisions.





Company Information



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SPECIALISED DRONE SERVICES

3D MODELLING



THANK YOU

We look forward to working with you in the future



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