



**OSBORNE**  
**AVIATION SERVICES**

CAPABILITY STATEMENT

2018



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# 01 COMPANY HISTORY

## ABOUT US

We are a 25 year family-owned Tasmanian company with a history and a passion for self-employment and flying.

We started as a small agricultural spraying business working from a shed on a property in Stanley, Tasmania, with one pilot, founder **Tom Osborne**, and one Bell 47 Mark-6C Tomcat Helicopter.

Since then, we have steadily grown, expanding from aerial application into forestry operations, powerline inspection, remote construction, precision long line, firefighting, filming, law enforcement and production filming. Through our industry partners and deep connections in the United States we have been innovative leaders in helicopter operations in Australia. We pioneered agricultural operations using trucks with built-in helicopter landing decks, micro-flow nozzle technology, and long-line fire fighting in Tasmania.



Our growth has increased over the past 10 years, adding aircraft, expanding into new industries, and buying and selling aircraft throughout the world. Though things are bigger now, what remains are the core beliefs: that excellence in flying cannot be compromised, and that gritty determination in delivering for the customer is the backbone of success.

In 2013 we launched the remote sensing arm of the business, offering remote sensing services such as powerline inspections, LiDAR and photogrammetry. These operations are carried out by helicopter or Unmanned Aerial Vehicles (UAVs)

In 2016 we launched a new tourism focused brand, **Osborne Heli Tours** to focus on showcasing the dramatic and wild beauty of the Tasmanian coastline. Regular scenic flights are now available out of the company bases in Port Arthur and Stanley.



# 02 QUALITY. SAFETY. ENVIRONMENT.

## No one cares what you know until they know that you care.

We strive to uphold the highest level of quality, safety and environment management. Building long-term relationships with our clients can only occur with an open, comprehensive and professional approach to these important matters.

We hire experienced people and we listen to what they have to say. **Staff Consultation** forms a regular part of our risk assessment process. Dedicated project managers ensure the relevant risks for each job are covered in Safe Work Procedures and Method Statements. We encourage staff and clients to report any hazards or incidents because these are an opportunity to improve.

We expect safety and efficiency from its pilots. Our crews are experienced and receive regular proficiency checks for each type of work they conduct. Regular Site Audits ensure standards are maintained in the field and managers trained in Root Cause Analysis follow up any reported hazards or incidents. We also use independent external auditors to give us an independent assessment of our performance.



Our Integrated Management system is externally audited and accredited to the international **Quality (ISO9001)** and **Safety (AS/NZS 4801)** standards.

Our environmental management system meets the standard for **Environment Management (ISO14001)** and we also operate a comprehensive carbon offset program.

Risk Probability	Catastrophic 5	Critical 4	Moderate 3	Minor 2	Negligible 1
5 Frequent	Extreme	Extreme	Extreme	High	High
4 Likely	Extreme	Extreme	High	High	Moderate
3 Occasional	Extreme	Extreme	High	Moderate	Low
2 Seldom	Extreme	High	Moderate	Low	Low
1 Improbable	High	High	Moderate	Low	Low



# 02 QUALITY. SAFETY. ENVIRONMENT.

CONTINUED



## MISSION.

We are a precision lift helicopter company whose goal is to partner with clients to provide safe, professional and innovative aerial solutions.

- Our pilots have over 10,000hrs combined experience in powerline work.
- Over 300,000 hectares of agriculture and forestry land treated.
- Over 30,000 hours of helicopter flight time with no CASA violations.
- Over 16,000 tonnes of fertilizer spread on forestry blocks throughout Aus.
- Long-standing relationships developed with mining companies in Tasmania and Western Australia.
- Thousands of hours of helicopter powerline/pipeline/animal survey accident and incident free.
- Long-standing relationships with major TV networks and international film groups.
- Over 3000hrs safely fighting bushfires.
- Thousands of tourists flown annually around the beautiful state of Tasmania.

***By operating a Safety Management System  
we hold ourselves to the same high  
safety standards as major airlines.***

## PREVENTATIVE MAINTENANCE.

### AIR

We insist upon daily preventative maintenance on our helicopter fleet. Our experience maintenance team performs thorough 100 hourly inspections on every helicopter.

Our maintenance engineers can service our aircraft at home base or in the field, nationwide.

### GROUND

Our ground support equipment receives the same attention to detail we give to our helicopters.

Our ground crews are required to perform daily safety inspections, and we routinely perform spot inspections in the field.

Our fuel trucks and heli-deck tankers are stored out of the weather when not on contract.



# 03 PRECISION LONGLINE



Photo courtesy of Marty Passingham.

## VERSATILE. EFFICIENT.

Helicopters can be substantially cheaper than traditional cranes in a wide variety of situations, offering both efficiency and accessibility.

Our team takes a professional approach to planning each and every job to ensure the work is safe and the aircraft time on site is minimised. We provide all ground crew, lifting equipment, rigging and project planning services.

Many companies offer long line services, but very few have production long line flying as part of their core DNA.

Production flying is using a long line to safely and precisely place loads at a high rate of speed over long periods of time.

***Osborne has conducted thousands of precision long line lifts including, structures, walkways, concrete, power line components, drill rigs, bridges, machinery and construction materials.***

### ***We can help you with:***

#### **Air-conditioner (HVAC) installation.**

Get those HVACs on your building in minutes, not days.

#### **Remote area construction.**

No need to mobilise cranes and crews into remote bush or cut ugly access tracks. We have worked on remote construction for huts, movie productions, and chairlift construction.

#### **Concrete pouring by helicopter.**

We own specialist concrete buckets and can move over 1 tonne of concrete per lift to help you achieve solid results.

#### **Remote area trail/track construction.**

Sling gravel/rock/walkways/building materials/earthmoving equipment onto the track.

#### **Mining support.**

We have supported various mining operations, including precious drill rig placement.

#### **Powerline construction.**

Our aerial lifting capabilities can assist with stringing power lines, setting power poles, construction work and crew transport.

#### **Swimming pool installation.**

Swimming pools sure can be awkward! Lift them into place with a helicopter and it can be done in minutes into the most inaccessible areas.

#### **Flood relief.**

We can move water, food, medical equipment and other essential supplies into cut-off areas rapidly.

**Fire fighting.** We have over 20-years experience in aerial fire fighting, including long line Bambi-bucket water-bombing operations.

**Tree removal.** We can remove fallen timber from difficult to access areas using nets or choking slings.



# 04 FORESTRY & AGRICULTURE



We specialise in aerial application to agriculture and forestry corporations. We have equipment and expertise in:

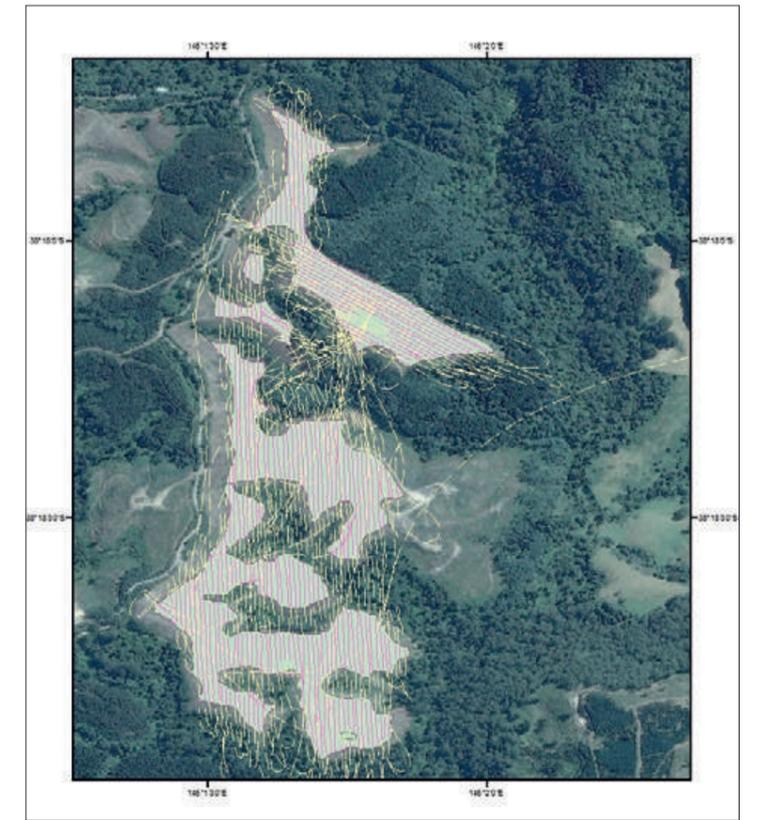
- Herbicide/fungicide/insecticide application
- Granule application
- Aerial seeding
- Aerial fertilising
- Aerial ignition

Each aerial application process begins by reviewing the application area and ensuring the application equipment is serviced and calibrated. Osborne conducts in-house pattern testing of all spray, seeding, granule and fertiliser equipment by professional engineers.

Our helicopters fly each project using top-of-the-line Platinum Ag-Nav guidance systems which provide precision flight lines and a full digital record of the aircraft path and applied areas.

The data from each job is uploaded to our online portal, processed by our GIS officer, and archived on backup drives as a permanent record. This data is always available to you as the customer as a valuable audit trail of all work completed.

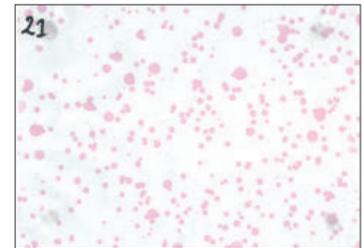
Our in-house geospatial experts can produce professional post-flight shape file or pdf reports showing aircraft track and other application statistics.



Post Flight Report



Spray pattern test papers in-situ



Spray pattern test sample

# 05 FIREFIGHTING



Helicopters are extremely versatile with the ability to attack fire quickly before it spreads.

We have extensive experience in low-level operations, external load work, water bombing, and operations in mountainous terrain and off airport landings in confined areas. We have worked successfully on fire operations with forestry, Parks & Wildlife and fire agencies for over 20 years.

We have multiple aircraft available to help manage fires through:

- **Water bombing**
- **Crew and equipment insertion**
- **Fire mapping**
- **Aerial thermal imagery**

All aircraft are fitted with Spider Tracks live satellite tracking systems and feed data to the NAFC ARENA system through TracPlus.



# UAV (unmanned aerial vehicles) 06

We can provide Unmanned Aerial Vehicles (UAV) for various photogrammetry and LiDAR applications. Possible applications include regeneration mapping, surveys, powerline inspection, damage assessments, forestry surveys, multi-spectral analysis of plant health.

We employ two full time mechanical engineers responsible for these services, as well as having strong ties to leading service providers in the North-American LiDAR industry.

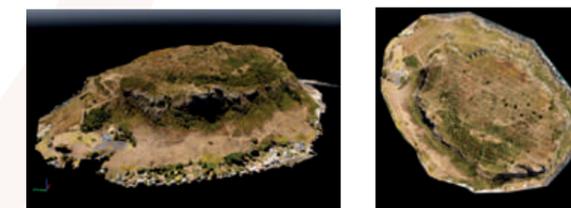
All data can be integrated with Google Earth or ArcGIS for easy access.



Infra-Red Imagery

Oblique Imagery

Fused LiDAR & True



Stitched orthomosaic from survey flight



Custom-built Vulcan UAV system on forestry photogrammetry project

# 07 POWERLINE



We provide aerial inspection, maintenance and construction services to help utilities manage risk more effectively across their network. We specialise in:

- High-resolution geo-referenced inspection imagery of pole and line assets
- Geo-synchronised LiDAR for vegetation clearances and engineering applications
- Qualified asset inspectors to review and analyse defects.

These services can be supplied using vehicles, unmanned aircraft or fully manned aircraft, depending on what technique is suited to each individual inspection corridor.

Manned aircraft inspections can be carried out from higher altitude than traditional line patrols meaning the aircraft is clear of most wire and obstruction hazards. Furthermore, because the high quality data allows post-flight analysis, utility company personnel can be removed from the aircraft, further reducing exposure for the customer.

We supply infra red and on-site visual inspection of power and pipeline assets using helicopters or UAVs. Utility company personnel, or our inspectors, can review assets directly from the helicopter, or via UAV-camera systems, to make a determination about asset condition on site.

Our helicopters can assist with stringing power lines, setting power poles, construction work and crew transport. Our AS350B3 helicopters can perform lifts up to 1.3tonne.



# 08 AIRCRAFT



## B206L

**GROSS WEIGHT:** 4050 lbs (1837kg)  
**SEATS:** 6 pax + 1 pilot  
**CRUISE:** 110 knots (203km/h)  
**MAX. RANGE:** 360nm (660km)  
**MAX EXTERNAL LOAD:** 1323lbs (600kg)



## AS350B2

**GROSS WEIGHT:** 5500 lbs (2494kg)  
**SEATS:** 5 pax + 1 pilot  
**FAST CRUISE:** 133 knots (245km/h)  
**MAX. RANGE:** 360nm  
**MAX EXTERNAL LOAD:** 1.1 tonne



## AS350B3

**GROSS WEIGHT:** 5500 lbs (2494kg)  
**SEATS:** 6 pax + 1 pilot  
**FAST CRUISE:** 133 knots (245km/h)  
**MAX. RANGE:** 360nm  
**MAX EXTERNAL LOAD:** 1.35 tonne

# SUPPORT EQUIPMENT 09

## GROUND

**Our ground support fleet for field operations include:**

- Three 13,000 L fuel tankers
- Two fuel/water heli-deck batch trucks for aerial application
- Two F350 fuel/support vehicles
- Numerous light vehicles, tractors and trailers.

## AERIAL

**Aerial equipment available includes:**

- Concrete pouring bucket
- Seeding systems (including multi-hopper systems)
- Granule spreaders
- Ignition system
- Fertilising spreaders
- Spray systems (Accu-Flo and MicronAir)
- Harnesses for photography
- Lifting and rigging equipment for wide variety of loads
- Water buckets (Bambi) for moving up to 1300L per lift

For aerial application we use Microfoil booms and Accuflow Nozzles to produce ideal droplet size.

# 10 HELI TOURS

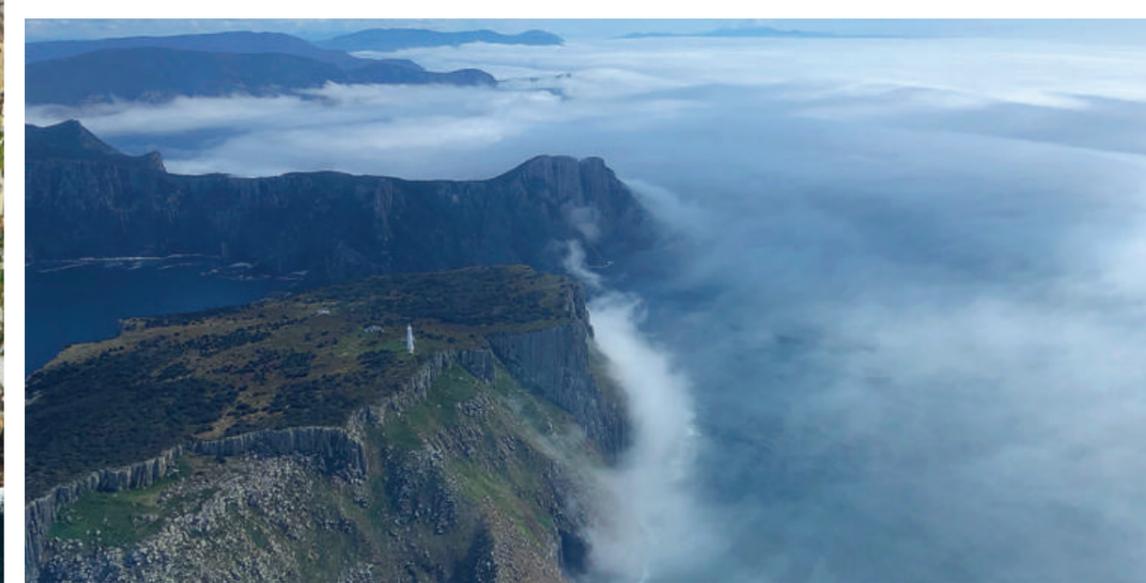


In 2016 the company made a move into the tourism space with the launch of **Osborne Heli Tours** in Port Arthur and Stanley.

From Port Arthur, helicopter flights head over the mighty sea cliffs of the Three Capes region and World Heritage Listed Port Arthur Historic Site. Taking off from a custom base in Port Arthur, amazing aerial views are delivered alongside stories and commentary from a chatty pilot.

From Stanley, flights take in the stunning setting of the seaside village of Stanley, rugged coastline around Woolnorth and the dense, ancient Tarkine forest.

With bases that are open daily, a fleet of helicopters are available for flights out of Port Arthur and Stanley, **Osborne Heli Tours** is ready for charter across the whole state. Landing sites at wineries, distilleries, airports and accommodation mean that helicopters can be incorporated into nearly any experience or package.





## HEAD OFFICE

6520 Arthur Highway  
Port Arthur  
TASMANIA 7182

**P.** 03 6458 3434    **E.** [admin@osborneaviation.com](mailto:admin@osborneaviation.com)

[www.osborneaviation.com](http://www.osborneaviation.com)

**ABN** 24 072 380 226

**ACN** 072 380 226

**AOC** VT573435-10

## EMAIL DIRECTORY

**Chief Executive Officer:** John Osborne    [josborne@osborneaviation.com](mailto:josborne@osborneaviation.com)

**Chief Pilot:** Tom Osborne    [tosborne@osborneaviation.com](mailto:tosborne@osborneaviation.com)

**Operations Manager:** Tristan Marrinan    [tmarrinan@osborneaviation.com](mailto:tmarrinan@osborneaviation.com)

**Tourism Business Manager:** Andrew Arvier    [aarvier@osborneaviation.com](mailto:aarvier@osborneaviation.com)

## INSURANCE COVERAGE

### AIRCRAFT

BMG Aviation Policy (Chartis Australia Insurance Ltd).

Policy No. 174551

Commercial & non-commercial use.

### PUBLIC LIABILITY COVERAGE

BMG Aviation Policy (Chartis Australia Insurance Ltd).

Policy No. 174551

\$20,000,000. Each occurrence combined liability coverage for bodily injury and property damage.

Coverages are subject to the conditions and exclusions of the policy.

### BUSINESS COVERAGE

Business insurance covers all hangars, buildings and commercial automobile insurance.

### WORKERS COMPENSATION

Zurich Australia Insurance Ltd

Policy No. 072978359GWC.

Workers compensation including common law liability of \$50,000,000.

## CASA APPROVALS

**Agricultural Operations**

**Aerial Ignition**

**Winching Operations**

**Sling Load Operations**

**Fire Spotting/Bombing**

**Aerial Photography, Survey and Spotting**

**Tour Operations**

**Aerial Animal Control**

**Powerline and Pipeline Patrol**

**Powerline Stringing**

**Geophysical Survey**

**Oil or Chemical Spill Dispersal**

