

DEFENCE TASMANIA INDUSTRY DIRECTORY





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Front cover images

Left hand image – Performatec's abrasive sludge removal (ASR) machine, used to remove abrasive waste from water jet systems.

Bottom middle image – Sentinel Boat's 1250 Littoral Manoeuvre Craft is a next-generation tactical sea boat, designed and built for the Royal New Zealand Navy.

Right hand bottom image – Jayben Group's launch and recovery system, designed and built for Insitu Pacific as part of the capability for the Australian Army's LAND 129 Phase 3 project (Tactical Uncrewed Aerial System).

Right hand top image – Australian Maritime College's Universal Testing Machine with environmental chamber and furnace that measures the mechanical properties of materials between -70 and 1050°C.

Top image – Lightning Protection International's range of Stormaster air terminals, used for protection against direct lightning strikes to buildings, structures, vessels, personnel and equipment.

Image right

Currawong Engineering's Corvid-29 crankcases and cylinder heads, used in fixed wing aircraft up to ~23kg and 3.5m wingspan.





Message from Tasmania's Defence Advocate

If you haven't yet experienced the quality and performance of Tasmanian defence capability, componentry and services, now is the time to get on board and make sure you don't get left behind.

You should never underestimate the Tasmanian advantage in innovation, ingenuity and focus on delivering unsurpassed quality and fit-for purpose design and manufacturing.

After 40 years of active and operational service in the Australian Defence Force I know what will work, what is needed and the performance expected

from our military hardware and associated services. Tasmanian defence suppliers never fail to impress me and others.

I invite you to find out first-hand just what Tasmania's defence supply sector can do for you.

Tasmania has an impressive range of niche defence industry capabilities and we are well positioned to deliver the solutions and build the capacity that both Australian and international defence forces need to remain at the top of their game.

For the Tasmanian defence supply sector, collaboration is key. Our thinkers, designers, manufacturers, professional service providers, and research and education institutions, work together to innovate and develop specialist solutions that are routinely the best on the market.

We have the infrastructure, workforce, skills and supply chains to support some of the largest militaries, defence companies and projects around the globe.

Tasmania's trusted maritime industry and research organisations have supplied world-class products, systems and services to navies worldwide for decades. More recently our innovations in land, air, space and cyber domains are increasingly being recognised in Australia and by militaries around the world.

Our cutting-edge designs and high-quality products are already enhancing the capabilities and operations of military forces of nations such as Australia, New Zealand, Pacific Island countries, Indonesia, Singapore, Japan, South Korea, the United States of America, Canada, the United Kingdom, France, Italy, Germany, Spain, Belgium, the Netherlands, Finland and Denmark.

I invite you to find out more about Tasmanian defence supply capability and expertise, where it can help you build your next generation force and to connect with Tasmanian defence industry suppliers today.

Rear Admiral (Rtd) Steve Gilmore AM, CSC
Tasmanian Defence Advocate



Pivot Maritime International's ContainerSim: Full mission 360° ship's bridge simulator configured in 2x40ft shipping containers.

Tasmania's defence advantage

Tasmania has a worldwide reputation for quality which, when coupled with our many competitive advantages, sets our defence suppliers apart.

We have gained the attention of major defence companies, contractors, governments and defence forces around the globe for having systems and products that are more innovative, more durable and more reliable than the competition.

Access to prime industrial and semi-industrial precincts and infrastructure across the state, all with proximity to major maritime and air freight corridors, positions Tasmanian industry favourably for supplying major defence projects.

Tasmania's manufacturers and research and education institutions are closely connected and collaborative, with a proven track record and established capability in national and international defence markets. They have a particularly strong track record in supporting the maritime and heavy vehicle industries.

Many of our major manufacturers supply to global markets and are connected to international supply chains. Local supply chains are well established and provide fabrication and manufactured products and services for varied industrial bases.

These supply chains, coupled with our globally competitive infrastructure and skilled workforce, enable Tasmania to achieve competitive production costs for very high-quality products.

Home to a thriving science and research sector, Tasmania is globally recognised as a centre of excellence in product development with this scientific edge supporting both Tasmanian-based and international industries.

The reliable and skilled Tasmanian workforce has evolved over many decades with organisations such as the University of Tasmania's Australian Maritime College, TasTAFE, and the Tasmanian Minerals, Manufacturing and Energy Council's Manufacturing Centre of Excellence working closely with industry to provide targeted and tailored education and training.

The Australian Maritime College is also both the national institute for maritime education, training and research and a strategic partner in the Naval Shipbuilding College, cementing Tasmania as a hub for defence research and education.

The University of Tasmania's new Defence and Maritime Innovation and Design Precinct in Tasmania's north is already drawing significant international attention with major defence contractors partnering with the University to utilise the precinct's unique facilities and expertise in defence science and research, and to further expand the precinct's capabilities.

Organisations such as the University of Tasmania, the Australian Antarctic Division, CSIRO (including the Marine National Facility), the Royal Hobart Hospital's Diving, Hyperbaric and Aerospace Medicine Department and the Centre for Antarctic, Remote and Maritime Medicine, have earned international reputations and continue to make significant advancements in their fields.

It is clear that Tasmania's defence supply industry will continue to be recognised as a supplier of choice, with our leading expertise and innovation in demand globally.

When only the best will do, and when quality and reliability are paramount, the world's defence industry is now looking to Tasmania's niche capabilities.



AMC Search providing Autonomous Underwater Vessel (AUV) training to Royal Australian Navy Maritime Geospatial Warfare Unit personnel

Capability map



North

1. University of Tasmania's Defence and Maritime Innovation and Design Precinct – Newnham
2. Australian Maritime College (AMC) – Newnham
3. University of Tasmania – Newnham / Inveresk Campuses, Launceston
4. Launceston Airport
5. AMC Autonomous Maritime Systems Test & Evaluation Centre - Lake Trevallyn Testing Grounds
6. AMC Marine Fleet Training Centre and AMC Autonomous Maritime Systems Test and Evaluation Centre – Beauty Point
7. AMC Autonomous Maritime System Test and Evaluation Centre – Low Head Testing Grounds
8. Stoney Head Military Training Area
9. Defence Science and Technology Group – Scottsdale Research Facility
10. AMC Firefighting Training Facility – Bell Bay
11. Bell Bay Advanced Manufacturing Zone – Bell Bay

North West / West

12. Tasmanian Minerals, Manufacturing and Energy Council's Manufacturing Centre of Excellence – Burnie
13. University of Tasmania – Cradle Coast Campus
14. Kokoda Barracks – Devonport
15. Port of Devonport
16. AMC Autonomous Maritime System Test and Evaluation Centre – Lake St Clair Testing Grounds
17. AMC Autonomous Maritime System Test & Evaluation Centre - Macquarie Harbour Testing Grounds

South

18. Maritime Defence Precinct – Hobart
19. Anglesea Barracks, Navy HQ Tasmania and HQ No 29 SQN RAAF – Hobart
20. International Marine Observing System – Hobart
21. University of Tasmania's Institute of Marine and Antarctic Studies – Hobart
22. CSIRO Marine National Facility – Hobart
23. Southern Ocean Observing System – Hobart
24. Diving, Hyperbaric and Aerospace Medicine Department – Royal Hobart Hospital
25. Derwent Barracks (2 Force Support Battalion and 12/40 Battalion RTR) – Glenorchy
26. Buckland Military Training Area – Buckland
27. Fort Direction Explosive Ordnance Facility – South Arm
28. University of Tasmania AuScope Array – Cambridge
29. Hobart International Airport (Operation SOUTHERN DISCOVERY)
30. Australian Antarctic Division, including Centre for Antarctic, Remote and Maritime Medicine – Kingston
31. University of Tasmania's Southern Skies Space Network, including Bisdee Tier Ground Station and Greenhill Observatory – Melton Mowbray

Capability descriptions

Maritime domain includes ship and watercraft construction, port development and ship operations, specialised engineered equipment, undersea and autonomous systems and domain awareness, diving training and diving medicine, and professional services.

Land domain includes specialised vehicle manufacturing, specialised systems and equipment (e.g. signature management and composites), engineering and fabrication, and food technology.

Air domain includes specialised systems and equipment (e.g. power electronics and engine systems), engineering and fabrication, training and aerospace medicine.

Space domain includes space domain awareness, specialised systems and equipment, and aerospace medicine.

ICT and other key enablers includes software development and integration (e.g. artificial intelligence, machine learning, cyber, biometrics and extended reality), systems engineering and professional services.

Research and education includes VET and tertiary training and education (including simulation), and research and development.



Capability index



Company	Maritime domain	Land domain	Air domain	Space domain	ICT and other key enablers	Research and education	Score
Access Solutions	✓	✓					9
Action Auto Glass	✓	✓					10
AERIUS Marine Australia	✓						11
APCO Engineering	✓	✓					12
Astrotec	✓	✓			✓		13
Australian Maritime College (AMC)	✓					✓	14
Biofouling Solutions	✓					✓	15
Blundstone Australia	✓	✓	✓				16
Castings Tasmania	✓	✓					17
CBG Systems	✓	✓			✓		18
CLS Oceania	✓						19
Commercial Dive Academy	✓	✓					20
CPT Engineering	✓	✓					21
Crisp Bros. & Haywards	✓	✓					22
Cromarty	✓	✓			✓		23
Currawong Engineering			✓				24
Decem	✓				✓		25
Definium Technologies	✓	✓			✓		26
Delta Hydraulics	✓	✓					27
Direct Edge	✓	✓	✓				28
Diving, Hyperbaric & Aerospace Medicine	✓	✓	✓	✓		✓	29
Echoview Software	✓				✓	✓	30



	Maritime domain	Land domain	Air domain	Space domain	ICT and other key enablers	Research and education	
Elphinstone.....	✓	✓					31
Finite Elements.....	✓	✓	✓	✓		✓	32
Fiomarine Industries.....	✓						33
Fluid Power Services.....	✓	✓	✓	✓			34
Forager Foods.....	✓	✓	✓				35
Fortifyedge.AI.....	✓	✓	✓	✓	✓		36
Foxhole Medals.....	✓	✓	✓				37
Fulcrum Robotics.....	✓	✓	✓				38
Fusion NDT.....	✓	✓	✓	✓			39
Geoneon.....	✓		✓				40
Handbuilt Creative.....	✓	✓	✓	✓	✓	✓	41
Harbro Engineering.....	✓	✓	✓	✓			42
HENSOLDT Australia.....	✓	✓	✓	✓	✓		43
Imbros.....	✓	✓					44
Incat Tasmania.....	✓						45
Iso Tech Engineering.....	✓	✓					46
Jayben Group.....	✓	✓					47
Liferaft Systems Australia.....	✓						48
Lightning Protection International.....	✓	✓	✓	✓	✓		49
Made By Ignite.....	✓	✓	✓	✓			50
Maltec Engineering.....	✓	✓					51
Muir Engineering.....	✓						52

Capability index continued

	Maritime domain	Land domain	Air domain	Space domain	ICT and other key enablers	Research and education	
Norfolk Blinds	✓	✓					53
Ocean Infinity	✓				✓		54
Offshore Unlimited	✓						55
Penguin Composites	✓	✓					56
Performatec	✓	✓	✓			✓	57
Pivot Maritime International	✓				✓	✓	58
PT Motorsport	✓	✓	✓	✓			59
Seaforce	✓				✓	✓	60
Sentinel Boats	✓	✓					61
Serco Australia	✓	✓	✓	✓			62
SoSub	✓						63
Storemasta	✓	✓					64
Tamar Hydro Tasmania	✓	✓	✓				65
TasTAFE						✓	66
Taylor Bros	✓						67
Taz Drone Solutions	✓	✓	✓				68
Tidetech	✓				✓		69
TMEC Manufacturing Centre						✓	70
Top Cut Group	✓	✓					71
UTAS Defence & Maritime Innovation & Design Precinct	✓	✓			✓	✓	72
Veris Australia	✓	✓	✓				73

MARITIME

LAND

Products and services

- Access Solutions specialises in the design, construction and service of vertical transportation equipment for the commercial and industrial sector of construction in Tasmania.
- Business segments include maritime, health and aged care, education, retail, warehousing and commercial developments. Access Solutions' focus is a "concept to completion" approach to all our work. Access Solutions' reputation has resulted in having a long list of projects with many repeat customers.

Capabilities

- Passenger lifts.
- Commercial goods lifts.
- Escalators.
- Duplex, triplex and quadplex lifts.
- Car lifts and goods hoists.
- Full comprehensive maintenance service including competitor lifts.

Competitive discriminators

- Tasmanian owned and family managed.
- 30 years operating.
- Specialise in custom sizing and low headroom.
- 24-hour local servicing team statewide.

Key customers

- Cricket Tasmania
- Department of Education
- Federal Group
- Incat Tasmania
- Kalis Group
- Mona
- Serco Asia Pacific (RSV Nuyina elevator support)
- TFE Hotels
- University of Tasmania

Key partners

- Australian Institute of Architects – Tasmania Chapter
- Family Businesses Australia
- Housing Industry Association
- Master Builders Association
- National Association for Women in Construction
- National Electrical and Communications Association

Quality accreditations and awards

- Accredited Building Practitioner
- MBT Specialist Contractor Winner and MBT Supplier of the Year 2023
- NAWIC Crystal Vision Award
- ISO 9001:2015 – Quality Management
- Recognised Employer of Choice
- TAFE Apprentices of the Year 2014 and 2015
- Tasmanian Community Achievement Business Award
- MBT Specialist Contractor of the Year – High Commendation 2022



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MARITIME

LAND

Products and services

- Precision waterjet cutting, design and supply of laminated glass, high-performance polycarbonates (Tuffak/Margard), high-density polyethylene, mild/stainless steel, aluminium composite, rubbers and more.
- Manufacture of bespoke heavy-duty aluminium frames and sliding windows for automotive, heavy machinery and marine applications.
- Design and manufacture of plant and machinery flat glass tailored to specific models.
- Automotive windscreen and body glass repair and replacement.
- Window tinting for automotive, agricultural and heavy machinery as a franchisee for Tint-A-Car Australia.

Capabilities

- With state-of-the-art 4,000 x 2,000mm Flow waterjet, Action Auto Glass can cut virtually any material up to 152mm thick while achieving accuracy to within ± 0.1 mm. Precise tolerances, superior quality and exact specifications are guaranteed, leading to reduced installation time and increasing operational readiness for our clients.
- High-quality window tinting reduces glare, ensures safety and comfort for personnel, and protects vehicle interiors from UV damage, contributing to better working conditions and equipment longevity.
- Aluminium extrusion bending and welding ensures high-quality, heavy-duty custom window frames for fixed and sliding windows suitable for automotive, marine, underground and military applications.

Competitive discriminators

- Advanced precision technology – CNC 2-axis waterjet.
- Ensured quality and efficiency through the company's commitment to LEAN manufacturing principles.
- Tasmanian owned and operated for over 35 years.
- Trusted long-term partnerships with local, national and international companies (20+ years for Caterpillar, Mader International and O'Brien Glass).

Key customers

- Caterpillar
- Elphinstone Pty Ltd
- Gradco
- Grange Resources
- Kevlacat Power Boats
- Mader International
- Mines such as:
 - MMG Rosebery
 - Henty Gold
 - Hellyer Gold
 - Bluestone
- Noosa Cat
- Terex

Key partners

- BJR Engineering Supplies
- GAT Technologies
- High Performance Corporation Pty Ltd
- O'Brien Glass
- Performance Waterjet

Quality accreditations and awards

- In the process of obtaining ISO 9001 compliance
- SAI Global Accreditation (Certified to AS 2080P)



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AERIUS Marine Australia

MARITIME

Products and services

- AERIUS Marine Australia is a Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R) system turnkey integrator covering the entire ships lifecycle, from concept and detail design through to build, commissioning and in-service support.

Capabilities

- HVAC-R system design.
- 3D system modelling.
- Equipment supply.
- System installation.
- Set to work and commissioning.
- ILS documentation.
- In-service support.

Competitive discriminators

- Team members actively engaged in the HVAC system design for the Hunter class frigates.
- Team members also actively engaged in the HVAC system delivery for the Type 26 frigates.
- Ability to draw on extensive experience gained in the turnkey delivery of the HVAC system for the Royal Navy's Queen Elizabeth Class aircraft carriers.
- Australian graduate engineers being trained internationally to underpin the engineering capability and enable ability to act as HVAC system design authority.

Heating, ventilation, air conditioning and refrigeration (HVAC-R) system integrator

Key customers

- BAE Systems

Key partners

- Bronswerk Marine Australia

Quality accreditations and awards

- In the process of gaining accreditation to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018



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MARITIME

LAND

Products and services

- Custom cast and machined components for marine industry in ferrous and non-ferrous metals.
- Specialist hydraulic actuators DNV certified for steering and ride control.
- Range of deck hatches and bulkhead seals.

Capabilities

- Foundry: cast metals include steel, stainless steel, cast iron, bronze, aluminium, heat and wear resistant metals.
- Machining includes 5 axis CNC machining on Mazak Integrex I400S as well as large capacity, high speed milling on Mazak FJV-60/120 II.
- Full CAD / CAM capability.

Competitive discriminators

- In-house casting and machining allows us to control the entire manufacturing process from design through to completion, allowing complete control over quality and delivery.

Key customers and partners

- Commercial marine
- Marine grade hydraulic actuators
- Mining
- Power industry
- US Littoral Combat Ship project



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MARITIME

LAND

ICT

Products and services

- High-quality electrical design, installation, maintenance and upgrades to the marine, Antarctic, industrial, commercial and healthcare sectors.

Capabilities

- Installation and maintenance of:
 - shipboard lighting, including searchlights and navigation lights
 - systems designed for Antarctic conditions
 - heating, ventilation and air conditioning (HVAC)
 - general light and power distribution
 - building management systems
 - safety systems and access control
 - data and communications
 - security and closed-circuit television (CCTV)
 - medical electrical systems
 - motors and generators
 - cranes and hoists
 - variable speed drives and soft starters
 - backup generators
 - thermal imaging.
- Maintenance and repair includes:
 - three-phase and single-phase motor and machine repairs
 - preventative maintenance systems
 - 24/7 breakdown and maintenance support.
- Body protection and cardiac protection specialists.
- Power analysis.
- Experience in hazardous areas.
- Marina and wharf electrical services.
- Automation and instrumentation.
- Energy consumption monitoring and cost-saving measures.
- Test and tag services.

Competitive discriminators

- Adopt a partnership approach with businesses to assist with reducing workplace risks and increase efficiency and performance.
- Tasmanian owned and operated company with over 30 years' experience installing and maintaining electrical assets.
- Multi-skilled workforce, able to provide tailored solutions in industries such as mining, quarries, concrete plants, aquaculture, water treatment facilities, shipping and gas generation plants.
- Fast response time, professional, solid electrical advice, integrity, work health and safety, competitive pricing, and punctuality.
- Authorised distributor of Helkama marine approved cables.

Key customers and partners

- ASP Ship Management – RV Investigator
- Australian Antarctic Division
- Calvary Health Care
- CSIRO
- Hanson Construction
- Ian Harrington Group
- Marine and Safety Tasmania
- Salmon Enterprises of Tasmania
- Sentinel Boats
- Serco Asia Pacific
- Tasmanian Department of Education
- Taylor Bros



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Products and services

- The Australian Maritime College (AMC) is part of the University of Tasmania, and is the national institute for maritime education, training, and research.
- AMC provides maritime-specific undergraduate courses, postgraduate courses, research and vocational education and training. More details at www.amc.edu.au/study and www.amc.edu.au/research
- Training and consultancy services specific to the maritime and Defence sectors are provided through AMC's commercial division, AMC Search Pty Ltd. These include: Bridge, Tug, and Engine Room Simulation, Human Factors and Bridge Resource Management; AUV and USV operations and training, Naval Architecture, Offshore and Coastal Engineering, Hydrodynamics testing, Cavitation testing, Ship and port operations, Environmental seabed mapping and Marine energy systems. More details at www.amcsearch.com.au

Capabilities

- Maritime domain research and development, and test and evaluation, including: renewable energy and power management; naval architecture (stability, structural integrity, manoeuvring); fluid dynamics and fluid-structure interactions; cavitation physics and hydro-acoustics; ship, submarine and autonomous systems deployment, operation, and sustainment; offshore engineering; human-centred vessel design and operation; port development; maritime safety; logistics and supply chains.
- Specialist research and training facilities including: Maritime Simulation Centre, Model Test Basin and Towing Tank, Cavitation Research Laboratory, Underwater Collision Research Facility, Real-Time Power Systems Simulator; Autonomous Maritime Systems Laboratory and Test and Evaluation Centre, Emergency Response Centre, various vessels, watercraft, and survival centre. More details at www.amc.edu.au/facilities

Competitive discriminators

- Extensive connections within the maritime industry.
- Maritime facilities and expertise are unique in Australia.
- Longstanding provider of education and research services to Defence and Royal Australian Navy.

Key customers

- Australian Government - DSTG, Royal Australian Navy
- Domestic and international maritime industry – ports and shipping, offshore, shipbuilding and repair sectors
- Port authorities

Key partners

- Australian Naval Shipbuilding College and Provider Network
- DST Maritime Division – Maritime Platform Performance, Acoustic Signature Management, and Littoral Autonomy, Sensors and Systems branches
- Flinders University, Edith Cowan University and Auckland University of Technology (Collaborative 2+2 Bachelor of Engineering (Maritime Specialisation))
- TAFE South Australia, South Metropolitan TAFE (WA) and TAFE NSW – Education pathways programs
- Office of Naval Research

Quality accreditations and awards

- Defence Industry Security Program (DISP)
- Tertiary Education Quality and Standards Agency (TEQSA) and Australian Skills Quality Authority (ASQA) – RTO ID: 60131
- AMSA, Engineers Australia (EA), Royal Institution of Naval Architects (RINA), International Institute of Marine Engineering, Science and Technology (IMarEST)
- AMC Search – Lloyd's Register QMS to ISO 9001:2015
- AAUS Industry Champion Awards 2024 - Finalist - Leadership; Innovation Operations; Education & Safety; Social Impact



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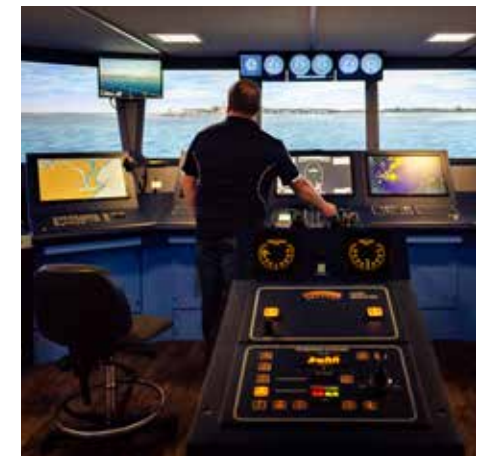
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MARITIME

R and E

Products and services

- Consultancy services in researching and/or managing biofouling and Invasive Aquatic Species (IAS), including:
 - advisory services
 - vessel inspections
 - likelihood/risk assessments
 - port baseline and surveillance
 - research and development
 - education and training.

Capabilities

- Vessel inspections for invasive aquatic species.
- Advisory and consultancy services.
- Likelihood and risk assessments.
- New and novel antifouling coatings or treatment solutions.
- Development of biofouling management plans and record books.
- Port baseline surveys and ongoing surveillance programs.
- Scientific, research and development services.
- Education and training.

Competitive discriminators

- Staff collectively have over 50 years' experience managing biofouling and invasive aquatic species.
- Conducted over 2,000 inspections including 58 different vessel types in 30 different countries.
- Biofouling Solutions scientists have PhDs in biofouling and/or invasive aquatic species.
- Staff have been involved in over 50 baseline, port surveys and ongoing surveillance programs throughout Australia and New Zealand.

Key customers

- Aquaculture industry
- Commonwealth, state / territory marine biosecurity regulators
- Cruise ship industry
- Defence Science and Technology Group
- International Maritime Organization (IMO)
- Oil and gas industry
- Shipping industry
- Wind energy sector

Awards

- 2020 Accelerating Commercialisation Program Grant – Australian Government Department of Industry, Science, Energy and Resources
- 2018 Australian Export Award – National Finalists of the Environmental Solutions Award
- 2018 Tasmanian Export Award – State Winner of the Environmental Solutions Award
- 2016 Australian Export Award – National Finalists of the Environmental Solutions Award
- 2016 Tasmanian Export Award – State Winner of the Environmental Solutions Award
- 2016 Australian Business Award for Employer of Choice (EOC)
- 2015 Winner of the Excellence in Marine Biosecurity Award – Western Australian Department of Fisheries
- 2014 Finalist Excellence in Marine Biosecurity Award – Western Australian Department of Fisheries
- 2013 State Finalist (Both small business and regional business categories) – Telstra Australian Business Awards



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MARITIME

LAND

AIR

Products and services

- Blundstone's products range from the iconic elastic-sided boots, heavy-industrial footwear, lace-up safety footwear for men and women, to gumboots and casual boots.
- The Blundstone range of specialty products include chemical resistant boots, underground mining boots, metatarsal guard and penetration resistant boots and airport-friendly styles.

Capabilities

- Blundstone boots have been keeping Australians safe since 1870.
- Decades of innovative design and production mean Blundstone now oversees a global supply chain bringing together the best ideas, components and designs to complement a wide range of products.
- Blundstone's products are developed by a team based in Australia who use the best resources available from all over the world to develop footwear that keeps pushing the boundaries.

Competitive discriminators

- Blundstone is a privately-owned Tasmanian company and their head office and product design centre are based in Hobart. This provides a unique opportunity to interact directly with the product development team at a local level.
- Blundstone research, develop and design new products using resources from all over the world. This allows them to keep pace with market needs and create products that continue to push the boundaries, providing their customers with constant improvement in comfort, protection, performance, and aesthetics.
- Blundstone are the pioneer in enhancing comfort in work and safety boots and today they collaborate with world-leading partners to devise next-generation footwear for the modern worker.
- Blundstone is committed to ensuring that the people behind their footwear production are ethically employed and free from exploitation. At a local level, this means that employment standards within their suppliers exceed the minimum government-prescribed standards in the country of operation.

- Blundstone is built on values that have stood the test of time. Guided by these principles, Blundstone ensures that legal, ethical, and responsible policies, practices, and processes are always adopted and put into practice throughout the company.

Key customers and partners

- Blundstone supply footwear to most of the major mining and construction companies in Australia

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Safety footwear is manufactured and accredited to Australian Standard AS 2210.3:2019 and Standard ASTM 2413-19
- In 2019 Blundstone was awarded a Good Design Award Gold Award in the Design Strategy category in recognition of outstanding design integration and strategy



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MARITIME

LAND

Products and services

- Quality Australian made steel and iron castings at competitive prices with short lead times.
- Rail and truck components.
- Axle housings.
- Bearing housings.
- Gear blanks.
- Crusher and mill liners.
- Heavy equipment track links.
- Apron feeder pans.
- Rotary breaker liners.
- Scrap shredder hammers and liners.

Capabilities

- Capacity: 3,500 dressed tonnes per annum.
- Metal types:
 - Carbon and low alloy quench and tempered steels
 - Manganese steel
 - Stainless and heat resisting steels
 - Alloy white irons
 - Grey and SG iron.
- Solidification simulation before casting using SOLIDCast simulation software or Magmasoft.
- Mass of finished castings range from 50kg to 3 tonne for steel and 4.5 tonne for iron.
- Fast loop moulding – maximum mould size 2.3m x 1.8m– minimum mould size 1.5m x 1.0m.
- Jobbing moulding – maximum mould size 3.3m x 2.7m.
- Induction furnaces – 1 x 5 tonne; 2 x 3 tonne.
- Heat treatment furnaces – 3 x 10 tonne – normalising, water quench and temper, polymer quench and temper.

- In-house non-destructive testing – magnetic particle inspection (including fluorescent particles), ultrasonic testing.
- Access to local subcontractors for NATA certified non-destructive testing including radiography.
- State of the art subcontract CNC machining facilities.

Competitive discriminators

- Modern plant due to extensive capital expenditure program.
- Stable workforce of 75 employees, many with 20–30 years of experience in the foundry industry.
- Flexible workforce allowing response to urgent requirements.

Key customers and partners

- Bekaert Wire Rope
- Bluescope Steel
- Elphinstone
- FLSmidth
- GFG Liberty
- Grange Resources
- Rio Tinto Aluminium Bell Bay
- Tomago Aluminium Company

Quality accreditations

- ISO 9001:2015 – Quality



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MARITIME

LAND

ICT

Products and services

- Thermal insulation and passive fire protection systems:
 - Rapid Access Composite Plus (RAC Plus), a lightweight A60 structural fire protection system
 - Rapid Access Stainless (RAS) – a lightweight A60 structural fire protection system
 - A60 or A30 fire protection profile wrap
 - Thermal insulation wrap
 - C-Class division interior fit out systems.
- B-15 Lite – a lightweight panelised partition and ceiling system
 - Exhaust and engine insulation systems
 - Fire doors and fire dampers.
- Moonraker HF, UHF, Multi-band, MF and VHF antennas.
- Moonraker lightning protection products.
- Multispectral camouflage solutions, including mobile camouflage, nets and personnel camouflage.

Capabilities

- Over 40 years' experience in thermal insulation and passive fire protection and design and manufacture of antenna systems.
- Diverse product range combined with R&D capability, flexible manufacturing facilities and short lead times allows fast response and development of customised solutions to complex challenges.

Competitive discriminators

- Australian made products and services, with a team of highly skilled technicians with experience in commissioning projects worldwide.
- Established track record and assurance of continued lifetime support for all our products. Quality manufacture ensures long service life in extreme environments.
- Design service and support to produce customised solutions to meet customer specifications.
- Experienced defence supplier within Australia and overseas.

Key customers

- ACMA
- ASC
- Austal
- Australian Army
- BAE Systems
- Damen
- Datron
- Elbit
- Fincantieri
- General Dynamics
- Hanwha Defence
- L3 Harris
- Leonardo / Selex ES
- Navantia
- Raytheon
- Rheinmetall
- Rohde and Schwarz
- Royal Australian Navy
- Saab
- Thales

Key partners

- 3M
- Alucoil
- CSIRO
- Defence Research and Development Canada
- Miranda
- Morgan Advanced Materials
- Rheinmetall Canada

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Marine Equipment Directive (MED)
- US Coast Guard (USCG) approved products
- Transport Canada
- 2018 Tasmanian Export Awards – Exporter of the Year
- 2022 Indo-Pacific Innovation Award
- 2022 Tasmanian Defence Industries Exporter of the Year



CBGSystems

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MARITIME

Products and services

- Metocean consulting services and equipment suppliers specialising in environment and climate monitoring, oceanography, maritime security and fisheries management services.
- Equipment supplied
 - Axys Technologies: manufacturers of wave, current and meteorological buoys
 - DeepWater Buoyancy: subsea buoyancy products for oceanographic, offshore oil and gas and technology companies
 - Mooring systems including subsurface flotation devices for the deployment of oceanographic instruments
 - Biosonics: scientific echo sounder systems for biomass estimation and habitat mapping
 - Nautilus Marine Services: specialised glass flotation and instrument spheres, specialising in deep water applications
 - Fluidion: in-situ water quality sampling and autonomous sample collection
 - RTsys: AUVs, underwater acoustic recorders and seafloor classification systems
 - RADAC: high-quality radar wave, water level and tide monitoring systems
 - EdgeTech: specialised acoustic release systems as well as USBL navigation, side scan, sub-bottom and bathymetric sonar systems
 - Zebra Tech: instrument wipers for use on oceanographic sensors and underwater camera systems
 - Deep Trekker: high-quality portable underwater remote operated vehicles
 - EcoSub (part of Planet Ocean): supplying inexpensive, high-quality AUV systems
 - CLS Argos and CLS Iridium: oil spill buoy (surface drifters)
 - CLS Triton Advanced Vessel Monitoring System (VMS): hybrid transceiver (Australian Fisheries Management Authority type approved)
 - Multi mission satellite synthetic aperture radar and satellite optical.

- Services provided
 - Space IOT: Argos satellite data collection and location service and Iridium Value Adder Reseller (SBD, RUDICS, CSD)
 - Global satellite and terrestrial automatic identification system (AIS)
 - Long Range Identification and Tracking (LRIT) data centre and application service provider
 - Maritime Awareness System (CLS MAS) – data fusion and intelligence platform
 - UAV-based multi-purpose maritime / land surveillance services.

Capabilities

- Deployment and recovery of equipment.
- Service and repair on most equipment sold.
- Recognised service centre for EdgeTech acoustic releases.

Competitive discriminators

- Together with CLS Southern Africa, CLS Oceania has worked in over 50 countries around the world engaged in oceanographic measurement for the offshore and other sectors.
- With over 30 years of experience as a service provider and equipment supplier, CLS Oceania is a global leader for ocean monitoring and surveillance.

Key customers

- Aquaculture sector
- Education, science, environment and research organisations
- Fisheries authorities
- Marine / hydrographic surveyors
- Oil and gas / offshore renewables sectors
- Port and harbour authorities
- Royal Australian Navy
- Seismic acoustic monitoring end users
- State government departments
- Subsea construction sector



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MARITIME

LAND

Products and services

- Diver training, SCUBA, surface supplied air, mixed gas surface supplied diver training, accredited through Australian Diver Accreditation Scheme (ADAS) and International Marine Contractors Association (IMCA).
- Closed Bell / Saturation Diver Training (ADAS and IMCA).
- All levels of supervisor training, onshore and offshore (ADAS and IMCA).
- Diver Medic Technician, Assistant Life Support Technician and Chamber Operator certifications (ADAS and IMCA).
- Verification of Competency (VOC).

Capabilities

- Fully equipped saturation diving system with 100m of water in Tasmania.
- Approved for remote site training, nationally and internationally.
- Dynamic mobile rapid deployment air diving system.
- Deployable infrastructure.

Competitive discriminators

- The only approved Saturation / Closed Bell / Surface Supplied Mixed Gas training school in the Southern Hemisphere. One of only two Saturation / Closed Bell training schools worldwide.
- Very experienced staffing with English second language students. 40% of students are English second language.
- International staff with tutors from Egypt, Malaysia, Singapore, Scotland, South Africa, Chile, Australia and New Zealand.
- Internationally recognition for all qualifications, including certification through ADAS and IMCA.
- Flexible training with online theory for certain courses.

Key customers

- Australian Institute of Marine Science
- Boskalis
- Drass
- Franmarine
- Great Barrier Reef Marine Park Authority
- Hydropro Pty Ltd
- James Cook University
- James Fisher Defence
- Kruze Subsea
- Ocean Works Asia
- Smart Subsea
- SMIT Salvage
- T&T Salvage
- Western Australian Police

Key partners

- Australian Diver Accreditation Scheme (ADAS)
- Orpheus Island Research Station
- Smart Subsea

Quality accreditations and awards

- ADAS accredited
- International Marine Contractors Association (IMCA) member
- CDAS Commercial Dive Association Singapore
- SAI Global Hydro Test Station
- Spirit Tasmania Business Awards (Excellence in Export) winner in both 2020 and 2021



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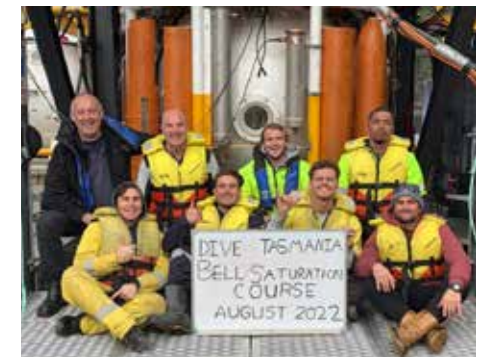
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Australian Academy For Offshore
Training Pty Ltd

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MARITIME

LAND

Products and services

- Deliver world-class manufacturing and fabrication services, with leading edge technology including 2D and 3D laser cutting, CNC machining, architectural metalwork, sheet metal, repetition engineering, heavy and specialised fabrication.
- Diverse range of in-house capability make CPT Engineering an efficient option for prototyping and perfect for volume supply to industry and commercial operations across Australia.

Capabilities

- Sheet metal – utilise latest technology to provide high-quality products for local, national and overseas markets. Services include: laser cutting, CNC punching, CNC panel bender, CNC press brake up to 300 tonne x 4m bed, powder coating, and custom pressing.
- 3D tube laser cutting is available for stainless steel on any shape material, up to 12m in length and up to 406mm in diameter.
- 2D fibre laser cutting is available for stainless steel, aluminium, brass or copper, up to 16mm plate and with automatic sheet loading and unloading.
- Robotic welding – a range of robotic welding equipment, experience and capability is available. Experienced welders are qualified to meet specific customer requirements to relevant global standards.
- Fabrication – extensive range of on-site equipment, technologies and expertise mean various fabrication jobs can be undertaken. A full-service solution is available from concept design and engineering to fabrication, assembly and install.
- Precision machining – utilising multiple CNC mills and lathes, singular or large volume orders can be catered for. Manual machines are available in addition to an extensive range of CNC capabilities.
- Tube bending – fully automated CNC tube bending is available of sizes up to 75mm diameter with end-formed to various shapes and sizes.

- Repetition engineering – machinery meet criteria of efficiency on short and long runs of production, allowing for automation, flexibility and versatility. CPT Engineering integrate redundancy into processes so supply can be guaranteed.
- Product design and prototyping, utilising a skilled design team and extensive in-house capabilities to manage projects from start to finish.

Competitive discriminators

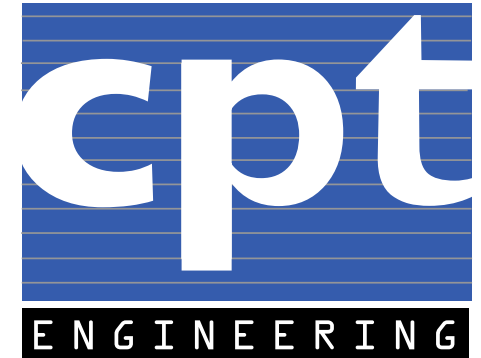
- Combines generations of experience with the newest technologies to manufacture and supply efficient solutions to meet large ongoing industrial requirements or custom one-off projects.
- Diverse in-house experience and capability, managing everything from design through manufacture and installation.
- Efficient and flexible, with an extensive and multi-skilled workforce.

Key customers and partners

- AQ1 Systems
- Braemar Industries
- Chameleon
- DUX
- Fiomarine
- ResiLift
- Rinnai
- RioTinto
- TasNetworks
- Timber Link

Quality accreditations and awards

- ISO 9001:2015 – Quality
- ISO 45001:2018 – Safety
- Tasmanian Chamber of Commerce Excellence in Manufacturing Award



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MARITIME

LAND

Products and services

- Deliver unsurpassed structural steel fabrication for marine and civil projects across four operational sites (Hobart shipyard, Kings Meadows, Western Junction and Wynyard).
- Shipyard facility at Margate in Tasmania has experience, capabilities and resources to undertake construction of new vessels including design, manufacture (steel, aluminium and stainless steel) fit-out, mechanical, electrical and sand blasting / painting. Also undertakes slipping, survey, maintenance and general repairs.
- Recent projects include plate bridge girders, wind towers, sports stadiums, pressure vessels, tanks, bins and hoppers, conveyor systems, underground crushing plants, fabrication of structural steel buildings, manufacturing of equipment, stainless steel and aluminium fabrication, and general structural steelwork in architectural applications.

Capabilities

- Hobart shipyard facility has a total of 8,070m² consisting of:
 - a separate fabrication hall with complete overhead gantry crane coverage of 13x5 tonne cranes
 - a dedicated enclosed blasting / painting bay and a separate outfitting hall
 - 15 tonne per metre capacity slipway, 125m long with capacity to slip vessels with 3.95m draft
 - 25 tonne capacity wharf, 63m long with 8.7m water depth at end of wharf
 - boat ramp.
- Kings Meadows site has a 4,500m² total fabrication space, Haywards Western Junction has a total 11,000m² fabrication facility plus 300m² prep area and Wynyard has a total 1,485m² fabrication space plus 300m² prep area.
- Steel detailing, surface treatment and site construction / erection in complex and difficult projects.
- Other services and capabilities include:
 - electrical design, installation and service
 - hydraulic design, installation and servicing
 - surface preparation – blasting, painting and galvanizing

- vessel outfitting
- mechanical installation and servicing.

Competitive discriminators

- Well-earned reputation for quality workmanship and for delivering difficult projects in tight timeframes.
- Professional management of projects from initial design stage through to the final installation and commissioning.
- Assisting clients during the conceptual stage of a project.
- Providing practical solutions and innovative design ideas using up-to-date construction methods.
- Providing insight into project planning and budgeting.
- Professional approach and determination to provide personal customer service, no matter the size of the project at hand.
- Owned and operated by a team of passionate shareholders and managers.

Key customers

- Aquaculture industry for Australia and New Zealand
- Cruise vessels
- Ferries
- Offshore shipping

Quality accreditations

- ISO 9001:2015 – Quality
- AS / NZS 4801:2001 – Safety
- AS / NZS ISO 3834 Part 2 – IIW Manufacturer Certification Scheme
- SCA-099 – Steelwork Compliance Australia



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MARITIME

LAND

ICT

Products and services

- High-quality electrical and operational technology solutions for industrial automation and business improvement systems in manufacturing and utilities.
- Cromarty has implemented thousands of solutions for clients ranging from simple single measurement solutions to highly complex integrated automation and reporting systems including ship information management systems.

Capabilities

- DCS / SCADA / PLC automation systems design and programming.
- Instrument and electrical design.
- Renewable energy (AEMO semi dispatch).
- Interfacing with enterprise resource planning systems.
- Plant upgrade projects in automation and control.
- Industrial networking.
- Manufacturing Execution Systems (MES).
- Radio / telemetry / WAN communications.
- Instrumentation service.
- TUV machine safety.
- Hazardous area engineering.
- Turnkey project capability.
- High end IT / OT networking design capability.
- OT Cyber Security.
- In-house 24/7 support capability.

Competitive discriminators

- Operating for over 35 years with headquarters in Tasmania and offices in mainland Australia, employing over 100 people including highly experienced and skilled electrical engineers and technicians.
- Reputation for delivering quality results ranging from simple instrumentation and control solutions through to high-end business system integration.
- Focused on maintaining and growing relationships with clients through partnerships, best practice, technical expertise, ethical values and customisable solutions.

Key customers

- Australian Antarctic Division
- BioMar
- Dulux
- Extractas Bioscience
- Huon Aquaculture
- Hydro Tasmania
- Incat Tasmania
- Lion Nathan
- North Queensland Gas Pipeline
- Nyrstar
- Origin Energy
- Rio Tinto
- Ross River Solar Farm
- Simplot
- Skretting
- Tasmanian Irrigation
- TasWater
- Waterloo Wind Farm

Quality accreditations

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – Safety
- ABB value provider (instrumentation, drives, UPS and robotics)
- Advanced data analytics
- DNV
- Ignition Premier Integrator
- JASANZ
- Omron Certified Integrator
- PILZ Safety Systems Partner
- Rockwell Recognised System Integrator
- Schneider Electric Master Alliance Partner
- Siemens Systems Integrator
- TÜV SÜD
- Vision Systems Specialist



Contact details

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WA Cromarty & Co Pty Ltd
(trading as Cromarty)
Hobart | Launceston | Devonport |
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Products and services

- High-reliability EFI engines and power electronics for Unmanned Aerial Vehicles (UAVs).
- Currawong engines offers customers a highly reliable powertrain solution as well as a complete turnkey system for ease of integration.
- Products include the Corvid-29 and Corvid-50 engines equipped with Currawong's well-proven electronic fuel injection system, power generation and conditioning system (including remote starting).
- Currawong designs and manufactures power electronics for motor control and hybrid engine platforms. Its power electronics provide class-leading power density and reliability.
- Currawong also provides specialist engineering consulting expertise to a range of industries. Currawong has worked with multiple defence client to develop and manufacture custom hybrid engine solutions.

Capabilities

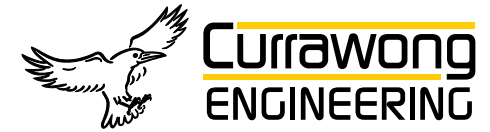
- With a team of highly trained engineers and a well-equipped factory including two 5-axis milling machines and electronics assembly equipment, Currawong can design and manufacture prototypes in a timely manner. It can also manufacture aerospace-grade metal parts for use in its own branded products plus it offers contract machining services to external customers.
- Currawong prides itself on developing successful long-term relationships with its customers. Its team of talented engineers has a strong focus on research and development to respond to customer requests.
- It designs and manufactures of turnkey engine powertrain solutions for unmanned aerial systems.
- It transforms off-the-shelf engines into efficient and reliable powertrain systems through the addition of a fuel injection system, throttle body, isolation mount, starter generator, low noise exhaust and power supply.
- Currawong manufactures world-leading heavy fuel hybrid engine systems for UAVs.

Competitive discriminators

- Sold 160+ engines, 1,600+ engine control units and 3,000+ ESCs.
- World leader in motor control and power electronics technology.
- Ongoing contracts for engineering development work.
- Features an electronics production facility to maintain excellent quality control over its products and to enable rapid turnaround time of prototype printed circuit board assembly.
- Established longterm customer base.
- A focus on technical support, ensuring that our customers can use Currawong's products to achieve and exceed their targets.
- Access to Currawong's extensive documentation portal and powerful software toolkit.

Key customers

- Aerovironment (USA)
- Fuji-Imvac (Japan)
- HoodTech Mechanical (USA)
- Insitu Pacific (Australia)
- L3Harris (USA)
- Power4Flight (US partner / distributor)
- Sky Eye System (Italy)
- Textron Systems (USA)
- Threed Systems (Estonia)



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MARITIME

ICT

Products and services

- Professional services: Decem specialises in matching highly qualified professionals with the defence sector's unique needs. Drawing from a pool of experienced candidates across Australia, we are able both to support defence forces directly and the defence industry to deliver projects.
- Integrated logistics support: Using bespoke software, Decem assists defence industry companies deliver integrated logistics support and technical data in a defence-compliant format to meet their contractual requirements. Decem's software is scalable and able to support projects of all sizes, from large shipbuilding programs to smaller sustainment contracts.
- Supply chain management: With a skilled integrated logistics support workforce, Decem is a trusted supplier of offshore patrol vessel spares. Decem works to Australianise the supply chain, building local capacity and supply chain reliance.

Capabilities

- Project management.
- Defence contract management.
- Tender preparation.
- Marine engineering.
- Software engineering.

Competitive discriminators

- Experience above and below the line for both defence forces and the defence industry.
- Understands the drivers and constraints of both sides, and how to deliver effective, pragmatic solutions.
- 100% Australian, veteran-owned small-medium enterprise.
- History of Australian defence contracting (ASDEFCON) compliant deliverables for defence industry clients.
- Value-for-money solutions for defence.

Key customers

- Australian Geospatial-Intelligence Organisation
- Department of Defence – Capability Acquisition and Sustainment Group
- Downer Engineering
- JEDS
- Leonardo
- Luerssen Australia
- Naval Shipbuilding and Sustainment Group
- Nova Systems
- Skeiny Projects

Key partners

- Geopanel member
- Member of all four Major Service Provider panels

Quality accreditations and awards

- Australian Maritime College Engineering Our Future Supporter
- Defence Industry Security Program Level 1 Member
- ISO 9001:2015 – Quality
- NCAGE – 9T8N2
- Sam.gov ID – KZT5PZ7BMX85



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MARITIME

LAND

ICT

Products and services

- Design and manufacture of high-specification, high-reliability, custom electronics solutions for deployment in harsh industrial environments.
- Legacy systems enhancement with remote monitoring and control, or replacement with bespoke modern system.
- Rapid prototyping for cost effective proof of concept validation, with in-house manufacturing shortening design-for-manufacturing cycle time.
- Custom software development to customise product behaviour.
- Large or small volume contract manufacturing of complex printed circuit board assemblies and complete products.
- Secure remote telemetry systems for high-value industries.
- Remote sensing solutions for process automation and control systems.
- Site-wide radio network solutions for robust sensing networks using LoRaWAN.
- Dozens of sensing and communications product designs which can be quickly adapted to suit almost any application.

Capabilities

- Fully automated surface mount electronics assembly line capable of high-volume and high-precision.
- Automated optical inspection and x-ray inspection machines for internal process control and quality management.
- In-house hardware design and software development teams for reduced product development cycle time.
- High-volume electronics assembly with in-house mechanical workshop for complex product assemblies.
- Industrial design of enclosures suited to harsh environments, with multiple existing field-tested options.

Competitive discriminators

- Completely in-house hardware and software design and manufacturing.
- Focus on low-volume, high-reliability design and manufacturing.
- Rapid turnaround from concept to prototype to production.
- Field operations team for real world testing and validation.
- Extensive experience with all types of IoT technologies with thousands of custom-made devices in the field.

Key customers

- Brunstedt and Lambert Systems, USA
- Coates Hire, Australia
- Compass Group, Australia
- Currawong Engineering, Australia
- ICT International, Australia
- Liberty Bell Bay, Australia
- Planet Innovation, Australia
- Rio Tinto, Australia
- SafetyCulture, Australia
- Vinnie Rossi, USA
- Viotel, Australia

Key partners

- Avnet Asia
- Hensoldt Australia
- ICT International
- Semtech Corporation
- SUBA Engineering
- University of Tasmania



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MARITIME

LAND

Products and services

- Hydraulic cylinders.
- Double and single acting telescopic hydraulic cylinders.
- Annular ported double acting telescopic hydraulic cylinders.
- Intelligent hydraulic cylinders with velocity and position sensor feedback.
- Hydraulic manifolds.
- Hydraulic hoses.

Capabilities

- Hydraulic cylinders: 2D and 3D design, metal cutting, friction welding a wide range of metal types in both solid and hollow bar, rotary welding a wide range of metal types in both solid and hollow bar, CNC lathe and milling machining, manual lathe machining, gun drilling internal ports, skiving and burnishing of metal tube, metal grinding, induction hardening of a wide range of metals, hard chrome plating, ceramic chrome treatments, fitment of velocity and position sensors.
- Hydraulic cylinder assembly and testing, clean room assembly and testing of cylinders and manifolds, painting, quality gates in all processes.
- Hydraulic hoses: design, cut rubber hose, skive rubber hose, clean, orient hydraulic couplings, crimp hydraulic couplings, quality gates in all processes.

Competitive discriminators

- 100% in-house end-to-end manufacturer of hydraulic cylinders and related products, from design, prototyping and manufacture.
- Ability and willingness to undertake specialist customised low volume products.
- Clean room assembly of hydraulic cylinders and manifolds.
- Significant capability and experience in the manufacture of hydraulic cylinders to operate in harsh environments such as mining, shipbuilding, oil and gas exploration and waste management.

Key customers

Defence and maritime:

- ASC Pty Ltd (formerly Australian Submarine Corporation)
- Austal
- Hydro Tasmania
- Thales Australia
- TMJ Marketing Pte Ltd (on-sold to Ministry of Defence, Singapore)

Mining:

- Caterpillar Inc
- Caterpillar (Thailand) Ltd
- Komatsu Mining Corp
- Sandvik

Transport:

- Hercules Engineering
- Roc Services
- Transport Hydraulic Solutions (New Zealand)

Waste management:

- Bucher Municipal
- JJ Richards
- Superior Pak Pty Ltd

Quality accreditations

- ISO 9001:2015 – Quality
- ASC accredited clean room
- Caterpillar Bronze SQEP (Supplier Quality) certified for hydraulic cylinders and Caterpillar Silver SQEP certified for hydraulic hoses



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MARITIME

LAND

AIR

Products and services

- Direct Edge is a national leader in sophisticated sheet metal manufacturing. Utilising machinery such as the world's fastest three-dimensional sheet metal processor we provide an unparalleled cut, fold, punch, fabricate and powdercoat / painted service at extremely competitive rates.
- Development and maintenance of systems, processes and capabilities to manufacture, weld and process components for Defence enables Direct Edge to supply sheet metal brackets, cabinets, enclosures and any associated components for integration into new platforms including the Rheinmetall Boxer CRV.
- Servicing the defence, mining, emergency vehicles, marine and food industries; cutting edge technology delivers world class optimal and cost effective solutions along with a certificate of compliance.

Capabilities

- With modern technology and adaptable production capabilities available Direct Edge are in the position to add value and drive competitive advantage into any supply chain.
- Specialists in working with mild steel, stainless steel, aluminium, galvanised steel, titanium, copper, brass, timber, acrylics, polyethylene, polycarbonates, rubber and aluminium composite.
- Employing a fully integrated enterprise resource planning system to control quality, workflow, product identification, delivery and resource allocation, Direct Edge's production line and workflow has been built around creating multiple products with various batch quantities whilst still providing a quality product on time into a global market.

Competitive discriminators

- Fully integrated ERP system to control quality, material, flow, product identification and resource allocation.
- Low to high volume production batches.
- Latest CNC automated technology ensures reduced lead time and guaranteed precision (laser, punch, water-jet, router, press-brakes).

- Diverse range of finishes including painting, powder coating, galvanised plating, engraving or electro polishing.
- International welding specialist and welding inspectors onsite.
- Welding of sheetmetal to ISO 3834-2 and DIN 2303:2007.

Key customers

- CAT Underground Mining, CAT MDC & CAT Thailand
- Elphinstone Group
- Mader International
- Marand Precision Engineering
- Rheinmetall
- Taylor Bros
- William Adams TasRail

Key partners

- Bluescope Steel Australia, Stirlings Australia & Capral Aluminium
- BOC Gas & Gear
- Hi-Tech Metrology and Trumpf Group
- ISOTech Engineering
- Maltec Engineering
- Technoweld and Fusion NDT

Quality accreditations

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – OH&S
- DIN 2303:2007
- ISO 3834 Part 2



DIRECT EDGE
MANUFACTURING

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MARITIME

LAND

AIR

SPACE

R and E

Products and services

The Department of Diving, Hyperbaric and Aerospace Medicine at the Royal Hobart Hospital (RHH) provides the following products and services.

- Round-the-clock state-wide consultation service for diving and hyperbaric emergencies.
- Assessment and management of diving-related illnesses and injuries.
- Provision of hyperbaric oxygen therapy for appropriate diving and medical conditions (e.g. complex wounds, trauma, radiation injury).
- Full in-chamber intensive care life-support capability.
- Acute and chronic wound care.
- Diving and aviation medical examinations.
- Technical support for forensic investigation of diving deaths.
- Education and training for medical, nursing and technical personnel.
- Research in human physiological responses to extreme environments.

Capabilities

- Dual-function hyperbaric / hypobaric chamber.
- Operational pressure range from 608 kPa (6 atmospheres) to 1 kPa (0.01 atmospheres).
- Transcutaneous oximetry and other physiological monitoring.
- Full resuscitation and intensive care life-support capabilities.

Competitive discriminators

- The Department of Diving, Hyperbaric and Aerospace Medicine at the RHH operates the only human-rated, dual-function hyperbaric / hypobaric chamber in the Southern Hemisphere.
- Extensive clinical experience in diving, maritime, Antarctic, aviation and wilderness expedition medical operations.
- Military, civilian (commercial and scientific), and humanitarian operational expertise.

- PEGASUS EnviroLab (the Physiology of Extreme Geographic, Aviation, Space and Under Sea Environments Laboratory) – multi-environment simulation (pressure, temperature, isolation and confinement, circadian rhythm, microgravity) existing or in development.

Key customers and partners

- Australian and New Zealand College of Anaesthetists
- Australian Antarctic Division
- Australian Defence Force
- Centre for Antarctic, Remote and Maritime Medicine
- Commercial and scientific diving industries in Tasmania
- Defence Research and Development (Canada)
- Hyperbaric Technicians and Nurses Association
- Office of Naval Research (USA)
- South Pacific Underwater Medicine Society
- University of Tasmania

Quality accreditations

Accredited by the following organisations to provide training:

- Advanced Certificate in Diving and Hyperbaric Medicine
 - Australian and New Zealand College of Anaesthetists
- Diploma of Diving and Hyperbaric Medicine
 - South Pacific Underwater Medicine Society
- Special Skills training (Diving and Hyperbaric Medicine)
 - Australian and New Zealand College of Anaesthetists
 - Australasian College for Emergency Medicine
 - Australian College of Rural and Remote Medicine
 - Royal Australian College of General Practice
- Monoplace Hyperbaric Chamber Operator Course
 - Hyperbaric Technicians and Nurses Association
- In-Chamber Nurse Attendant Course
 - Hyperbaric Technicians and Nurses Association

TASMANIAN
HEALTH
SERVICE



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[www.outpatients.tas.gov.au/clinics/
diving_and_hyperbaric_medicine](http://www.outpatients.tas.gov.au/clinics/diving_and_hyperbaric_medicine)



MARITIME

ICT

R and E

Products and services

- Echoview®, the world's leading software for processing and analysing active hydroacoustic data for the study of aquatic life and other objects in the water column.
- Bespoke hydroacoustic applications and processing workflows.
- Hydroacoustic consulting and client services.
- Training in echosounder theory and data analysis.

Capabilities

- Software technology and services for the processing and analysis of active hydroacoustic data in sustainable fisheries management.
- Expertise in the application of hydroacoustic science to business problems in aquatic industries, such as aquaculture, renewable energy and fisheries.
- Technology for autonomous data processing, analysis and reporting on board unmanned surface vehicles, autonomous underwater vehicles and stationary platforms.
- Hydroacoustic expertise in:
 - Target detection and classification
 - Biomass determination
 - Autonomous fish counting
 - Wideband processing
 - Signal identification by matched filter processing
 - Vegetation mapping
 - Gas seep detection.

Competitive discriminators

- Trusted brand and benchmark products – the industry standard.
- Thirty years' experience delivering advanced scientific software and services to governments and businesses in over 65 countries.
- Globally respected scientists in a workforce of highly educated and skilled people.
- Hardware agnostic – supporting over 75 hydroacoustic data formats and all major hardware brands.

Key customers and partners

- Australian Antarctic Division
- CSIRO, Australia
- Department of Fisheries and Oceans, Canada
- Exail SAS, France
- Kongsberg Gruppen, Norway
- National Institute of Fisheries Science, Korea
- Nippon Kaiyo, Japan
- NOAA Fisheries, USA
- Nortek Group, Norway



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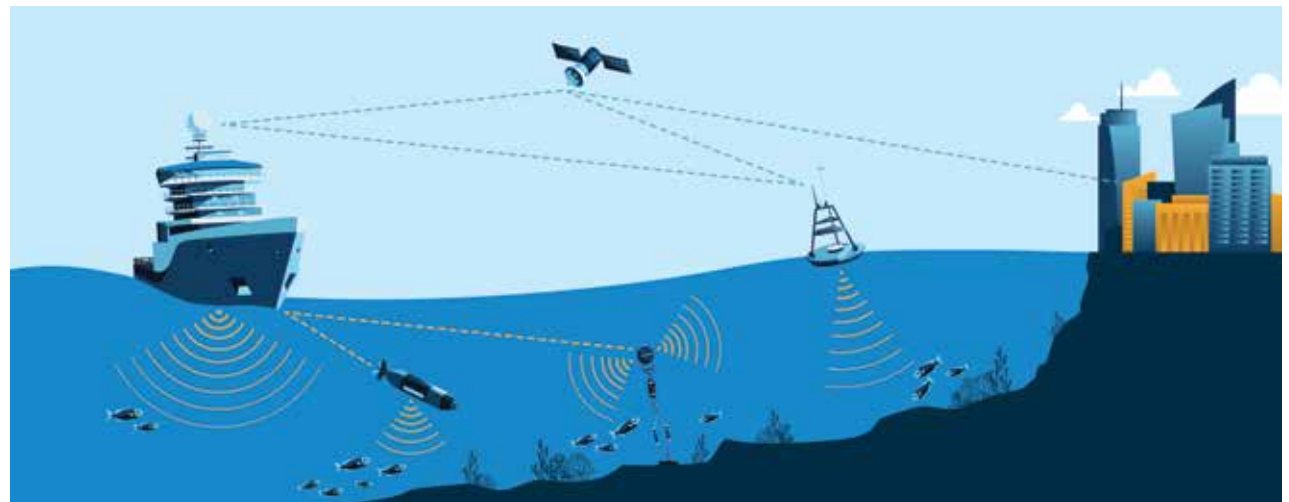
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MARITIME

LAND

Products and services

- Elphinstone is an experienced Australian manufacturer, specialising in large-scale vehicle, machine, equipment and component manufacturing for local and global markets.
- Industries include defence, underground and surface mining, tunnelling and the public sector.

Capabilities

- Fabrication for light, medium and heavy applications – mild steel, stainless steel, hardened steel and armour steel plate.
- 5-axis Machining Centre – max workpiece 4.0m (H) x 4.5m (W) x 10.0m (L), 50 tonnes.
- First operations – plasma cutting and pressing (up to 1 000 tonnes).
- Abrasive blasting and painting.
- Non-destructive testing.
- Mechanical assembly – powertrain, hydraulics, electrical systems.
- Vehicle body fitout.
- Electrical harness manufacture – all plugs and cables, sheathed or braided.

Competitive discriminators

- 100% Australian owned and operated, headquartered in North West Tasmania.
- 45+ years' experience supplying and supporting equipment across the globe.
- Qualified and certified tradespeople.
- Embedded LEAN methodologies to maximise quality, repeatability and efficiency.
- Dedicated Defence team.
- Highly effective local and global supply network.

Key customers

- Authorised Caterpillar Original Equipment Manufacturer
- BHP – Underground and surface mining equipment, rail maintenance equipment
- BusTech – Passenger buses
- Glencore – Underground mining equipment
- Hanwha Defence Australia – hull and turret fabrication for Huntsman SPH and AARV
- Newmont – Underground mining equipment
- Orica – BM7 Mobile Mixing Unit
- Rio Tinto – Underground mining equipment

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Member of Australian Defence Industry Security Program (DISP)
- Approved subcontractor for LAND 8116 Phase 1

ELPHINSTONE

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MARITIME

LAND

AIR

SPACE

R and E

Products and services

- Inventive mechanical engineering consultancy.
- Advanced computer-based engineering analysis and design.
- Documentation and specifications.
- Specialised composite material and product design.
- Development of registrable intellectual property.
- License to use novel designs and methods of manufacture.
- Re-imagined 3D printed design, components and prototypes.
- Technical feasibility assessment and management decision support for engineering project investment.
- Engineering project management.

Capabilities

- Expert advice to projects with high technical risk.
- Skilled project managers and engineering mentors.
- Accomplished complex project integrators and communicators.
- High-performance computing ANSYS Enterprise level finite element and computational fluid dynamics analysis.
- Purpose-built high-performance computing facility.
- Autodesk Inventor 3D CAD modelling.
- Design for 3D printing.
- Delta 3D Printer – 200 diameter x 400 high print volume for thermoplastic TPU, and wide variety of other plastics.
- Established manufacturing support networks.

Competitive discriminators

- Vertically integrated engineering project management through analysis and design to advanced manufacture and commissioning.
- Unique knowledge and experience across industries and materials with expert computer analysis and small team agility.
- World leading engineering designer of first ever successfully deployed solo manned submersible to the deepest place on earth, 11km deep – Deepsea Challenger submersible.

- World-leading engineering designer of patented Isofloat foam for human use at full ocean depth and unique composite skin for Deepsea Challenger.

Key customers and partners

- Aquaculture farms and equipment suppliers – rugged design
- Australian Antarctic Division – extreme temperature design
- Deepsea Challenger – extreme depth design
- Metals processing, mining, oil and gas – Ecka Granules, Nyrstar, BHP, Temco, RSA, Terratec, MMI Texas, etc. novel industrial cyclones, chiller chambers, heat exchangers, etc
- Renewable Energy – novel system design and engineering for small and large hydro, wind and solar

Quality accreditations and awards

- 2012 Australian international Design of the Year Award for engineering design of Deepsea Challenger submersible
- Engineering Simulation quality system based on: NAFEMS QAA 001:2007 supplement to ISO 9001-2008



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MARITIME

Products and services

- Fiomarine manufactures and markets worldwide the 'Fiobuoy®', a robust submersible marine marker buoy and retrieval system specifically designed for military and research applications where sensitive or valuable equipment needs to be deployed underwater without a telltale surface marker, diver or an ROV for retrieval.
- Fiobuoy is security coded, programmable and deployable to depths up to 200m. It can be triggered into action by preset time / date or via coded acoustic command signal. At that time, it releases from its underwater mooring or payload mass and floats unwinding its way to the surface to fulfil its marking function.
- Fiomarine also acts as representative in Australia and New Zealand for International Submarine Engineering (ISE) based in Canada. ISE is a world leader in the design and integration of autonomous and remotely operated robotic vehicles and terrestrial robotics for military, research and general markets.

Capabilities

- Fiomarine can tailor Fiobuoys to meet the emerging needs of its clients.
- Its hollow casing makes it possible for it to become a subsea equipment platform where a customer's equipment can be incorporated inside e.g. data-loggers, environmental sensors, acoustic communications networks or homing beacons and listening devices.
- The technology can be configured to interact with a customer's payload equipment.
- Assistance can be provided in developing new concepts in ocean equipment retrieval which is normally sacrificial or too costly.
- Fiomarine is currently developing a small version of the Fiobuoy suitable for deployment by divers.
- Two way hydro-acoustic communication system incorporated into the Fiobuoy which is one of the smallest, with the lowest power requirements in the world. It can be modified to suit the customer's application and requirements also.

Competitive discriminators

- An all-in-one retrieval device combining acoustic-release, timer-release, flotation, surface marker, retrieval line and line storage and anti-tangle pay-out into one complete subsea retrieval solution.

Key customers

- Belgian Navy
- Customisable subsea equipment platform
- Hydrographic sector
- Mine countermeasures
- Royal Australian Navy
- Singapore University
- US Navy

Key partners

- BAE Systems
- Defence Science and Technology Group
- International Submarine Engineering

Quality accreditations

- Australian Defence recognised supplier



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Fluid Power Services

Specialists in design, manufacturing and maintenance of fluid power systems

MARITIME

LAND

AIR

SPACE

Products and services

- Fluid power components including pumps, motors, cylinders, valving and electronics.
- Hydraulic hose assemblies.
- Rigid tube and pipe assemblies.
- Testing and verification services.
- Manufacturing stainless steel ratchet cargo strap for Australian and New Zealand Defence Forces.

Capabilities

- Design, installation, service and repairs – end-to-end project solutions, engineering and system design, installation and commissioning, manufacturing of specialised hydraulic, lubrication and fluid transfer items, on-site maintenance and shutdowns.
- Hydraulics – hoses and fittings, pumps, motors, valves and accumulators, filtration, power units and systems.
- Lubrication equipment and systems – pumps (pneumatic, electric and hydraulic), filtration systems, controllers and diagnostics.
- Industrial hose and fittings – rubber, plastic and specialty hose, hose clamps and clips.
- Pneumatics – cylinders, pumps, motors, tube and fittings, valves, filters, regulators and lubricators, dryers and control cabinets.

Competitive discriminators

- Local design, manufacturing and service capabilities.
- National support through Cooper Fluid Systems.
- Global expertise through our key partners.
- Large, modern and flexible manufacturing facility.
- Overhead gantry crane, drive-through access, large secure concrete yard.

Key customers

- Australian Antarctic Division
- Caterpillar
- Cement Australia
- Elphinstone Pty Ltd
- Hydro Tasmania
- Terratec Australia Pty Ltd

Key partners

- Adel Wiggins
- Black Bruin
- Bosch Rexroth
- Click Bond
- GRACO
- HYDAC
- Parker Hannifin
- RYCO Hydraulics
- Stauff Corporation

Quality accreditations

- ISO 9001:2015 – Quality



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MARITIME

LAND

AIR

Products and services

- Ready-to-eat meals.
- Ready-to-eat ingredients – meat, vegetables, fruit and dairy.
- Functional foods and ingredients.

Capabilities

- Leading Australian freeze-drying business.
- Capacity to produce 500 tonnes of freeze dried product per annum.
- Three sites providing capacity and redundancy.
- Processing, freeze drying, portion or bulk packing.
- Ambient, chilled and frozen food storage in 7,300m² facility.

Competitive discriminators

- Forager Foods has a vast network of skill sets including chefs, product developers, nutritionists, engineers and research facilitators.
- Inaugural member of the steering committee that set up and advises the Centre for Food Innovation, a joint venture between the University of Tasmania, CSIRO and Department of Defence.
- Utilising its vast network, Forager Foods has embraced the principle of continuous improvement, which drives all its product development and manufacturing programs.
- Diverse secure supply chain procuring from local, interstate and global suppliers.
- Established logistics providing secure and effective delivery globally.
- Freeze dried foods are lightweight, have long shelf life with very little degradation of the product over time, are shelf stable (can be held at any temperature) and upon rehydration, retain all nutrients and flavour of the fresh product.
- Freeze dried food products have potential uses for Defence across Army, Navy and Air Force.
- Forager Foods owns two freeze dried food facilities and leases a third facility from the Defence Science and Technology Group.

Key partners

- Anspec Pty Ltd
- CSIRO
- Department of Defence
- University of Tasmania

Quality accreditations

- Export Registration – Dairy
- HACCP accreditation – Certificate FSAU17/9236
- Kosher – Certificate KC#226573
- Meat Processing Certificate
- NASAA Organic Registration – 7136P
- Organic Certification – NASAA



redefining the food experience

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MARITIME

LAND

AIR

SPACE

ICT

Products and services

- Frictionless continuous biometric identification, authentication and anti-spoofing software for the tactical edge.
- On-device intelligence utilising real-time bio-measures.
- Generative AI for real-time multimodal operator monitoring for augmented frontline workers.
- Deployable to the tactical edge: disrupted, disconnected, intermittent and low-bandwidth (DDIL) environments.
- Software integrations to defence cloud platforms, simulators, Battle Management System, Future Industry, space (Azure Space, ISS) and cyber domain.

Capabilities

- Personalised multi-modal on-device AI software for wearables enabling human-machine teaming.
- Edge computing on-device Generative AI software platform optimised for mission-ready mobility, deployable to ultra-low power processors and sensors.
- Situational awareness – integrates sensor signals in real time to provide tactical data and AI support for tactical teams.

Competitive discriminators

- Continuous Monitoring and Learning (MLOps) data pipeline that supports 'store and forward' algorithm improvement utilising training and DDIL mission data.
- Contextual personalised generative AI for operators to enable sub-second identity verification and bio-validation of assets.
- Cognitive performance optimisation with mission systems model integration.

Key customers

- BAE Systems Australia
- Boeing Australia
- Thales Australia
- US Air Force Small Business Innovation Research (SBIR)
- US Department of Defense – Defense Innovation Unit Stage 2 Polygraph+

Key partners

- Academic: Behaviour Brain Body Research Centre UNISA
- Investment: UNSW Defence 10x Trailblazer, US Air Force WERX (AFWERX) and US Air Force TechStars
- Technology: ARM, IBM, Samsung (Health SDK and Knox), Siemens, Thales/Microsoft Nexium Defence Cloud

Awards

- TASICT Best ICT Partnership 2023
- AIIA iAwards23 – Finalist
- Australian Space Awards 2023 – Start-up of the Year Finalist
- NIST Public Safety Communications Research Award – Winner
- Siemens MindSphere Future Industry World Series – Finalist

Fortifyedge 

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MARITIME

LAND

AIR

Products and services

- High-quality replica military and civil medals for Australia, New Zealand, United Kingdom and United States of America.
- Superior medal mounting services.
- Medal rotary and flat engraving.
- Ribbon bars and citations.
- Custom design, production, and supply services for challenge coins, awards, medals, medallions, metal rank insignia.
- Specialist consultancy services for design, manufacturing, supply and ongoing long-term delivery of award and recognition systems.

Capabilities

- In-depth knowledge of Australian Honours and Awards system, and specifically production guidelines and order of wear for Australian and international awards.
- Global supply chain for sourcing and / or producing highest quality componentry and products.
- High grade computer rotary and diamond drag engraving machine for personalising awards and custom products.
- In-house graphic design services for custom medal products.
- Proven skill in design, production and delivery of holistic awards systems with major consideration of short and long-term economy of production.
- Maximum 48 hour turnaround for express medal mounting service.
- Maximum 15 business day turnaround for standard medal mounting service.
- Maximum 42 day turnaround for production and supply of custom challenge coins, awards, medals and medallions with design confirmed.
- Maximum 84 day turnaround for advice, consultation and finalising of design, production and supply of custom products.

Competitive discriminators

- Privately owned Tasmanian company with modern warehouse facility located five minutes from Hobart Airport.

- Foxhole director is ex-Australian Army and Royal Australian Navy with over 14 years of Defence experience and a further 18 years experience in the medal industry.
- Lifetime guarantee on all products and workmanship.
- Entire Foxhole team commitment to supreme customer satisfaction as reflected in testimonials.
- Perpetual refining of existing products like shorter brooch bar pin on medal mounting bars.
- Innovation of new ideas to pre-empt and/or keep pace with market needs ideas such as joining of multiple ribbon bars and multiple citations.

Key customers and partners

- ACT Emergency Services Agency
- Ambulance Tasmania
- Australian Defence Force
- Australian Federal Police
- Corrective Services Tasmania
- NSW Ambulance Service
- PNG Defence Force
- Police Association of Tasmania
- Returned and Services League of Australia (sub-branches)
- Tasmania Fire Service



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MARITIME

LAND

AIR

Products and services

- Leaders in the unmanned system and sensor industry with this experience extending capabilities into the defence manufacturing and services sector.
- Designers and operators of custom remotely operated robotic systems for industrial, environmental and military applications.
- Leaders in the deployment of remote operated vehicles (ROVs), uncrewed ground vehicles (UGVs) and uncrewed aerial vehicles (UAVs) undertaking 100,000 inspections per annum, deploying and training unmanned systems and sensors across all applications.
- Complete comprehensive environmental and asset inspections as well as condition assessments in maritime, aerial and terrestrial environments.
- Bathymetry surveys using multi- and single-beam sonars and structural scanning sonar.
- Industry-leading laser scanning of tunnels and confined spaces using LiDAR and other remote sensors.
- Development of highly accurate digital twins using aerial LiDAR, high-def sonar, 3D models, thermal and multi-spectral imaging.
- Tactical sedimentary management and robotic dredging capabilities.

Capabilities

- Air: CASA licensed and accredited providing a fleet of UAVs that perform industrial aerial inspection, thermal imaging, photography, 3D modelling and mapping.
- Land: Australia's largest and diverse range of UGVs, currently capable of distances exceeding 1,000m.
- Sea: Comprehensive fleet of ROVs, subsea sensors and commercial vessels in commercial survey.
- Confined space: Mobile robotic inspection systems that are compact, waterproof, airborne, climbing, tracked and magnetic.
- Terrestrial, aerial and marine laser scanning: State-of-the-art remote sensing technology transforming spatial data into practical knowledge.
- Internet of Things (IoT) and tracking: In-house capability to monitor and track assets, using distributed IoT sensors, networks and custom software.

- Distributor: Manufacturer and distributor for many custom robotic solutions.

Competitive discriminators

- Australian in-house designers, engineers and scientists.
- Safety and efficiency focus: Remote access via robotic technology that is safer and more cost-effective than conventional services.
- Rapid scalability.
- Staff diversity and industry expertise: In-house aeronautical and mechatronics engineers, geospatial and environmental scientists and tradespeople.
- Advanced technology: Internal AI/machine learning capability, software and mechatronics engineers.

Key customers

- Agriculture and aquaculture
- Environmental compliance
- EPA / Regulators
- Forestry
- Generation and distribution
- Government
- Government infrastructure owners
- Local government
- Ports and marine asset owners
- Private sector asset owners
- Resource industry
- Scientific research
- Surveyors
- Tasmanian Government
- Telecommunications
- Universities
- Water utilities

Key partners

- Distributor of many global robotics systems and remote sensors



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MARITIME

LAND

AIR

SPACE

Products and services

- Fusion NDT provides non-destructive testing (NDT) and mechanical testing services, ensuring the quality, safety and performance of your assets.
- Expert advice and technical support tailored to your specific testing and inspection needs.
- Custom development and auditing of NDT procedures to meet industry standards and project requirements.

Capabilities

Structural integrity inspection

- Defect detection, identifying defects early to prevent failures and extend asset life.
- Customised testing programs for optimal results.

Decision support

- Detailed reporting, providing comprehensive reports with actionable insights to inform decision-making.
- Tailored advice and technical support for your specific needs.

Welder quality assurance development

- Mechanical testing support for procedure and welder qualification.
- Material property verification.

Competitive discriminators

- Our team consists of certified technicians with extensive experience in NDT and mechanical testing.
- We use the latest technology and equipment to provide accurate and reliable testing results.
- We prioritise our clients' needs, offering flexible and customised solutions to meet their specific requirements.
- Our quality control processes ensure that every test is performed with the utmost precision and reliability.
- FusionNDT is adaptable to your schedule and operational needs.

Key customers and partners

Manufacturing

- APCO Engineering
- Castings Tasmania
- CPT Engineering
- Crisp Bros. & Haywards
- Delta Hydraulics
- Direct Edge
- Elphinstone
- Incat Tasmania
- ISO Tech Engineering
- Jayben
- Muir Engineering
- Storemasta
- Tamar Engineering Tasmania
- Taylor Bros

Resources

- Rio Tinto
- MMG
- Grange Resources
- Bluestone Tin

Utilities

- Hydro Tasmania
- TasNetworks
- TasWater

Quality accreditations and awards

- ISO/IEC 17025 – Testing, NATA accredited



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MARITIME

AIR

Products and services

- Vegetation mapping – tracking vegetation around key assets:
 - Uses state-of-the-art satellite imagery and advanced artificial intelligence
 - Offers up to 30cm resolution mapping with 95% accuracy for precise identification and categorisation of vegetation
 - Facilitates reliable and scalable vegetation data access
 - Allows monitoring of changes in vegetation density and type across large regions or specific areas
 - Reduces the need for physical site visits and manual or airborne surveys
 - Streamlines vegetation management process.
- Bushfire Severity Index – understanding bushfire severity around key assets:
 - Uses state-of-the-art satellite imagery and advanced artificial intelligence
 - Informs detailed area specific risk analysis
 - Offers scalable coverage to monitor large and small regions
 - Ensures automated regular updates for up-to-date information
 - Harnesses detailed analytics for strategic planning and improved decision-making
 - Enhances long-term preparedness.

Capabilities

- Geoneon stands at the forefront of geospatial intelligence and hazard analysis, specialising in delivering cutting-edge solutions tailored to the defence industry.
- With a history rooted in innovation and technology, Geoneon has consistently pushed the boundaries of how geospatial data and natural risk assessments can optimise and safeguard large infrastructure projects.
- Geoneon is a team of experts specialised in geohazards, disaster risk reduction, geospatial and software mapping solutions, and computer vision engineering.

- The company has a scalable and reliable data processing infrastructure capable of handling large datasets efficiently.
- The team is committed to continuous improvement and innovation, incorporating the latest advancements in technology and best practices by investing in R&D, leading to regular updates and enhancements to company solutions.

Key customers

- Asian Disaster Preparedness Centre
- City of Hobart
- Department of Police, Fire & Emergency Management
- GB Energy
- Green Energy Partners
- Hydro Tasmania
- Marinus Link
- National Emergency Management Agency
- TasNetworks
- World Bank

Key partners

- Esri
- Maxar Technologies
- Microsoft for Startups
- University of Tasmania

Quality accreditations and awards

- 2023 Tasmanian Export Awards – Emerging Exporter



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MARITIME

LAND

AIR

SPACE

ICT

R and E

Products and services

- Vast (> 1,000km²) photorealistic synthetic environments for mixed reality (MR) and virtual reality (VR).
- Next-gen situational awareness and decision-making tools.
- Instant rapid response, incident simulation and training.
- Next-gen 1:1 scale MR mission rehearsal systems.
- Real-time scenario visualisation with on-the-fly data feeds.
- Customisable, spatial 3D user interfaces with dynamic video feeds for MR/VR headset deployment.
- Orbital, deep space and planetary surface visualisation.

Capabilities

- MR / VR / augmented reality (AR) ideation and software development.
- MR / AR consultancy.
- Industry-defining photorealism.
- User experience design core for instant (intuitive) immersion.
- Geo-persistent placement of extended reality (XR) scenes in real-world locations.
- 3D terrain mapping for MR / VR development.
- Remote XR-based collaboration tools with spatial personas.

Competitive discriminators

- Australia's most advanced mixed reality developer.
- World-leading, massive-scale photorealistic environments for virtual / mixed reality at millimetre level of detail.
- Dynamic streaming of 3D content for near-infinite (continuous) VR and mixed reality MR experiences.
- Instant access to any real-world location in photorealistic 3D.
- XR mode-switching for unique user-controlled viewports.
- Industry-defining XR optimisation for off-the-shelf hardware, allows for enabling affordable and rapid deployment.
- Strong industry ties to Silicon Valley elite.

Key customers

- Australian Defence Force (DSTG)
- Australian Army
- PwC
- State and territory governments including (ACT, NSW, VIC, TAS)
- Telstra

Key partners

- Decorated ex-special forces (SASR) personnel
- World-leading Silicon Valley tech giants

Awards

- 25+ international awards
- 4x Honoree at Webby Awards (International)
- Telstra Business Awards winner (National)
- 5x Summit Creative Awards winner (International)
- 3x W3 Awards winner (International)
- 4x Communicator Awards winner (International)

handbuilt.

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MARITIME

LAND

AIR

SPACE

Products and services

- Manual and CNC machining, welding and fabrication.
- CNC waterjet cutting gas profile cutting.

3D Printing

- 3D printed composite plastics.
- 3D printed 17–4 PH stainless steel, Inconel 625, A2, D2 and H13 tool steel and copper.

Capabilities

- Haas VF 3 and VF 4 CNC vertical mills (dimensional capacity up to 1,100 X 600 X 550).
- Haas ST-30SSY and SL-30 CNC lathes (300mm chuck and 760mm swing).
- Omax Maxiem 1530, 5 axis CNC waterjet cutter (3,000mm x 1,500mm and 0°– 60° angle cutting).
- Durma AD-S 30135 9 axis press brake (135 tonne, 3,000mm bed, 450mm throat).
- CNC tube bender (up to 80mm diameter).
- MMA, MIG, TIG and low hydrogen welding and silver soldering.
- Pressure testing up to 6,000 PSI.
- HPM-150 ton hydraulic press.
- 3D printed composite plastics (up to 550 x 400 x 400 print volume).
- 3D prints metals – closed cell infill or solid parts (300 x 220 x 180mm print volume).

Competitive discriminators

- Comprehensive manual and CNC machining capabilities.
- Comprehensive metal fabrication capability.
- A one-stop-shop for metal machining and fabrication.
- World leading 3D printing capability in volume and material selection.

Key customers

- Caterpillar Machinery in Australia, Thailand, India and United States of America
- Elphinstone Pty Ltd
- Harvest Moon
- Huon Aquaculture
- PCR Engineering
- Premium Fresh Tasmania Pty Ltd
- SED Manufacturing Services
- Sewell Sweepers

Key partners

- Caterpillar Machinery
- Elphinstone Pty Ltd
- SED Manufacturing Services
- Sewell Sweepers

Quality accreditations

- Working towards ISO 9001:2015 – Quality



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MARITIME

LAND

AIR

SPACE

ICT

Products and services

- Space Domain Awareness radars and systems.
- Data analytics and cyber security.
- Electronic warfare.
- Comprehensive radar portfolio from land based systems, through to full scope maritime applications and airborne surveillance systems.
- Electromagnetic protection and electronic combat systems.
- Hydrogen power storage and distribution systems.
- Situational awareness C2 / C4 systems including deployable counter unmanned aerial system.
- Clean energy.

Capabilities

- Systems integration and engineering.
- Design, manufacture and assembly.
- Project delivery.
- Sustainment services.
- Repair, overhaul and calibration services.
- Research and development.
- Onsite and remote operations.
- Certified training.

Competitive discriminators

- Sovereign business operations and control.
- Innovation incubator and commercialisation.
- Project management (ASDEFCON+ / ACAT2)
- Supply support, warehousing and procurement.
- Secure workshops.
- Field service operators, technicians and maintainers.
- Third party repairs.

Key customers

- Australian Border Force
- Australian Defence Force
- New Zealand Defence Force
- NSM Australia

Key partners

- Australian Maritime College
- Submarine Institute of Australia
- Tasmanian Government
- University of Tasmania

Quality accreditations and awards

- ISO 9001:2015 – Quality
- ISO 45001:2018 – Safety
- ISO 14001:2015 – Environment
- JAS-ANZ registered organisation
- Defence security accreditation (DISP)
- Winner, 2021 Prime Minister's Veterans' Employment Awards in the Veterans' Employer of the Year – Medium category
- Small Business Exporting to Asia (ACT) award in 2013, 2014, 2015 and 2016 and Small Business Exporter of the Year (ACT) 2017



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MARITIME

LAND

Products and services

- Supply and support of scientific instrumentation, equipment and consumables.
- Provision of a wide range of laboratory equipment and supplies to government, research, industry and education organisations.
- Specialist supplier of subsea instrumentation for defence, oceanography, coastal marine science, environmental monitoring, industry, research and education.
 - Precision surface and subsea measurement and recording sensors for defence, hydrographic and other environmental requirements: subsea parameters include physical, optical, chemical, gaseous, optical radiation and nuclear radiation; complementary above water parameters are also offered
 - Physical sampling systems for seawater, seabed material and other particles / organisms
 - Underwater acoustic monitoring and recording systems
 - Underwater acoustic data telemetry and control systems
 - Surface data buoys, with full instrumentation and data telemetry
 - Underwater cables, electro and electromechanical, for hi-speed ethernet, multi-conductor, high-tension tow / deployment uses
 - Uncrewed surface vessels for rapid environmental assessments
 - Ship winches and launch and recovery system scientific deployed packages, towed systems, and remotely operated vehicle / autonomous underwater vehicle requirements
 - Underwater remotely operated vehicle and autonomous underwater vehicle systems for observation and monitoring functions
 - High-resolution underwater video / still cameras and lighting.

Capabilities

- Full in-house engineering service, support and calibration.
- Cable and connector moulding and manufacture.
- Specialist instrumentation design and systems integration.
- Training support for all customers.

Competitive discriminators

- Privately owned Tasmanian company with office and engineering facilities in Hobart, close to Hobart Airport.
- Continuous operation in the Australian scientific fields for over 50 years offering only highest-level equipment.
- Supporting customers throughout Australia, New Zealand and South East Asia.
- Facilitation of factory-based training for sales and engineering staff to ensure up-to-date knowledge of all equipment offered.

Key customers

- Australian Antarctic Division
- Australian Institute of Marine Science
- Australian Maritime College
- CSIRO
- Defence, RAN Hydrographic Office
- Defence Science and Technology Group
- International Marine Observing System (IMOS)
- Offshore and mining companies including Rio Tinto, Woodside, Inpex, BHP, GHD, RPS, SKM
- Port authorities and shipping industry
- State departments of environment
- Universities

Key partners

- Evologics
- HYDRO-BIOS
- NKE Instrumentation
- Ocean Test Equipment
- Sea-Bird Scientific
- Sequoia Scientific
- VideoRay ROVs
- Winchester Interconnect (Falmat)

Quality accreditations

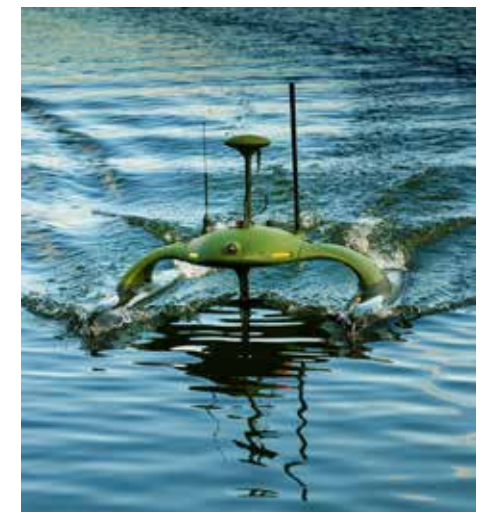
- Working towards ISO 9001 accreditation



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MARITIME

Products and services

Incat Tasmania is a global leader in the design and construction of aluminium passenger and vehicle ferries. For the past four decades, Incat has been at the forefront of innovation in the shipbuilding industry and is now leading the world in the transition to zero emission maritime transport and constructing the world's largest battery electric ferry.

Capabilities

- In-house design and construction.
- Lightweight aluminium vessel construction.
- Range of vessel configurations, fit-out and performance variations.
- Wave piercing catamaran design resulting in a smoother ride overall.
- Only shipyard in Australia capable of producing zero emission ships in a net zero state.
- Capacity to produce multiple vessels every year.

Competitive discriminators

- Strong reputation for innovation and excellence in the shipbuilding industry.
- Over 40 years of experience in designing and constructing aluminium vessels.
- Largest commercial shipyard in Australia – 5 construction halls and more than 70,000m² of undercover production area.
- Entire vessel built in Australia.
- World renowned for vessel quality, reliability, and longevity.
- Around 100 Incat-built vessels in operation across the globe.

Key customers

- Commercial Ro-Pax ferry operators
- Military / Defence
- Off-shore support operators

Key partners

- Capral Aluminium
- Det Norske Veritas
- Revolution Design Pty Ltd
- University of Tasmania / Australian Maritime College

Quality accreditations and awards

- Australia's Best Managed Company Award 2023 – Deloitte Private's Best Managed Companies Program
- First Large High-Speed Ferry Powered by LNG – Shippax Awards
- Large Employer of the Year 2022 – Tasmanian Training Awards
- Outstanding Contribution in Industry and Commerce – Advance Australia Awards
- Ship of the Year 2020, High Speed Ferry – Cruise and Ferry Awards
- Winner of eight Exporter Awards – Tasmanian Export Awards
- Winner of prestigious Hales Trophy 3 times – Fastest Atlantic Crossing by a Commercial Passenger Vessel



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MARITIME

LAND

Products and services

- Specialists in CNC machining, manufacturing components from a range of materials for various industries including food processing, mining (part of Caterpillar's supply chain), aquaculture, marine and transport.
- Products and services include: CNC and manual machining; flame type profile cutting of plate; fabrication of small to medium parts and painting.
- Finished components are packaged to customer specifications including VCI and Intercept to enable long shelf life and protection during transport and storage.

Capabilities

- CNC vertical machining centres have a 4-axis milling envelope of: X – 1,050mm; Y – 570mm and Z – 510mm.
- CNC horizontal live tool lathes have a 3-axis operating envelope of: maximum turning diameter – 460mm (X); maximum turning length – 658mm (Z); and bar working diameter – 81mm.
- Profile cutting – Oxy fuel profile cutting of plate from 16mm to 230mm.
- Fabrication – MIG and TIG fabrication of small-to-medium components to requirements, weld procedures and pre-heat processes.

Competitive discriminators

- Triple ISO certified for Quality, Environment and Safety.
- Management team has a combined 70 years of experience in the CNC manufacturing space with an additional 10 years of experience in quality systems and data management.
- On time ship and rejected parts per million statistics for the past 12 months for a major global customer: On time ship = 90%, rejected parts/million = 0.
- Team is committed to a safe work culture with over 3,600 days lost time injury free.
- Reputation for achieving complex multi-process manufacturing projects that others simply will not attempt. Developed strong relationships with partners offering hardening, plating, chroming and cylindrical grinding of parts produced.

- Utilise the latest CAD / CAM systems available including BricsCAD 3D and GibbsCam.
- Developed own in-house ERP and compliance software systems, providing a competitive advantage as no need to conform with off-the-shelf systems. Ability to adapt software hand in hand with business processes.
- Proactively manage continuous improvement and eliminating waste.

Key customers

- Castings Tasmania
- CAT
- Direct Edge Manufacturing
- Elphinstone
- Simplot
- Tamar Hydro

Key partners

- A Class Metal Finishers
- Australian Surface Technologies
- Direct Edge Manufacturing
- Global Metals
- Sandvik
- Tufwrap
- Voestalpine

Quality accreditations

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – Safety



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MARITIME

LAND

Products and services

Design and construct for heavy duty vehicle systems

- Defence design and construct equipment.
- Military Land and Maritime specialised equipment trailers.
- Mining and high wall excavators.
- Mining and main roads construction equipment.
- Drivetrain parts manufacture:
 - Mining
 - Construction
 - Materials handling
 - Agriculture.
- Communications system for autonomous vehicles.
- Vision systems for remote control mining vehicles.
- Rotator equipment for excavators.
- Mobile electrical charging infrastructure for mining.

Capabilities

- Component manufacturing using 5-axis CNC multi-tasking machines, broaching and spline cutting.
- Defence industry heavy vehicle design and manufacture.
- Wiring loom design and manufacture.
- Mobile tracking and antenna systems.
- Manufacturing ramping process and procedure.
- Complete vehicle engineering, design and build:
 - Control systems
 - Communication systems
 - Vision systems
 - Human interface systems
 - Electrical and electronic systems
 - Vehicle structures
 - R&D projects.
- 3D component printing.

Competitive discriminators

- Proven supplier to global specialist vehicle OEMs for more than 20 years.
- Local Australian manufacturer
 - Sovereign capability and capacity
 - Current ADF contracts (Insitu).
- 3D modelling and FEA analysis of prototype components.
- Currently exporting to six destinations, including USA, Europe and India.
- Certified to meet export manufacturing requirements.

Key customers and partners

- Bild Group
- Bis
- Boeing / Insitu Pacific
- Caterpillar
- Dana
- Downer
- Elphinstone
- Fortescue
- Fulton Hogan
- Grange Resources
- Motion Australia
- Road Tek / Queensland Government
- Walterscheid Powertrain

Quality accreditations

- ISO 9001:2015 – Quality
- ISO 3834 – Manufacturing Welding Quality Certification
- ISO 1940 – Mechanical Vibration Quality Standard
- ISO 13849 – Safety with Machinery Control System
- ISO 14731 – Welding Coordination Standard



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MARITIME

Products and services

- LSA are designers and manufacturers of inflatable inclined slide Marine Evacuation Systems (MES) providing direct liferaft access.
- Variants of the LSA system now include MES evacuation slides from 9 to 22 metres in association with 115, 100 and 50 person life rafts.

Capabilities

LSA MES have many features which provide advantages for military vessels.

These include:

- being compact and lightweight
- the ability to safely and rapidly transfer all personnel, with approved system ready to use in less than 60 seconds
- the ability to evacuate injured personnel including stretcher cases
- the ability to evacuate 600 persons per MES station in less than 30 minutes
- the ability to operate in all environments, with successful testing for functionality in temperatures ranging from -30C to +65C
- a reduced radar signature.

Competitive discriminators

- Easy to install, simple to use, cost-effective to own.
- No requirement for any winches, electrical supply or complicated hydraulics.
- Installations tailored to the unique requirements of each vessel and customer.
- Over 25 years designing, refining, manufacturing and installing MES.

Key customers

- BAE Systems
- Royal Navy (UK)
- Royal Netherlands Navy
- Royal New Zealand Navy
- US Navy

Key partners

- BAE Systems

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Full SOLAS Type approvals from:
 - DNV including EC Marine Equipment Directive approvals
 - United States Coast Guard
 - Transport Canada



LIFERAFT SYSTEMS AUSTRALIA

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MARITIME

LAND

AIR

SPACE

ICT

Products and services

- Direct-strike lightning protection for structures, open areas and vessels.
- Wide range of earthing / grounding products and solutions.
- Surge protection, including for sensitive electronics.
- Lightning warning and advanced alert system.

Capabilities

- Design and manufacture of lightning protection solutions.
- Provision of suitable technology and standards compliance depending on the application and exposed risk factors.
- Design capabilities for placement of direct-strike protection, depending on the application and international standards.
- Professional consultancy services for lightning risk analysis and mitigation in compliance with international standards.
- Earthing designs and testing in compliance with international standards.
- CDEGS modelling of lightning impacts on structures and behaviour underground.
- Certification and testing of lightning protection systems.

Competitive discriminators

- LPI® is one of very few companies in the world that is able to offer a range of innovative technologies suitable for lightning protection, together with compliance to international standards.
- It is the only company globally possessing a patented lightning down conductor cable able to withstand 500 kV. This innovation provides competitive advantages when providing customer solutions for sensitive and high-risk applications, such as protection for vessels.
- Extensive R&D and field and laboratory testing of products has made it possible to offer solutions for extreme conditions in high-lightning areas. LPI was the first company to test corona effects on air terminal in a high-altitude, outdoor, high-voltage test facility.
- LPI® provides total solutions – direct strike, earthing and surge protection – most of which are manufactured in LPI's own state-of-the-art, advanced manufacturing centre.
- Customers are located in more than 85 countries in some of the most lightning-prone areas of the world.

Key customers

- Indonesian Navy
- Malaysian Police Academy
- Oil and gas or petrochemical facilities
- Singapore Police Coast Guard
- Telecommunication operators in Asia, Africa, Central and South America and Australia (including Telstra, Vodafone, Optus and NBN Co.)

Key partners

- Budapest University of Technology and Economics, Hungary
- Instituto Tecnológico de la Energía (ITE), Spain
- Istituto Nazionale di Fisica Nucleare, Italy
- LAB-AT Laboratório de Alta Tensão, Portugal
- Monash University
- Swinburne University

Quality accreditations and awards

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – Safety
- Winner of Tasmanian Exporter of the Year 2006
- Winner of Tasmanian Export Awards (various categories) in 2006, 2007, 2009, 2019, 2021 and 2022
- High Commendation at the Australian Engineering Excellence Awards (Engineers Australia) in 2016



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MARITIME

LAND

AIR

SPACE

Products and services

- Made By Ignite is the contract manufacturing arm of the award-winning Ignite Digi, designer and manufacturer of high-quality products, parts and cables for the global film/TV industry.
- Made By Ignite specialises in intricate and high-tolerance 3- and 4-axis CNC machining of aluminium, steel, copper and other materials.
- Produces LEMO, Fischer and similar connector cable assemblies.

Capabilities

- 2 x OKUMA MB4000H 4-axis CNC mills with 10 tombstones each, providing work holding flexibility and unmanned overnight machining capacity. Dimensional capacity 400 x 450 x 450mm.
- 1 x OKUMA M560e 3-axis CNC mill for larger billet. Dimensional capacity 1000 x 560 x 460mm.
- Hexagon 06.10.06 Explorer Performance coordinate measuring machine (CMM) with multi-probe capability to ensure delivery on tight tolerances.
- Dimensional capacity 734 x 144 x 794mm, 300kg, 0.005µm system resolution.

Competitive discriminators

- ISO 9001 for contract manufacture of high-tolerance mechanical parts.
- Use of ProShop enterprise resource planning software for paperless manufacturing workflow, traceability and revision management.
- 24 hour manufacturing capability with small team.

Key customers

- Currawong Engineering
- Definium Technologies
- Ignite Digi
- Lightning Protection International
- Star Electric
- Trimec Industries

Key partners

- Currawong Engineering
- Definium Technologies
- Lightning Protection International

Quality accreditations and awards

- ISO 9001:2015 – Quality
- 2021 Tasmanian Export Awards – Manufacturing & Materials
- 2019 Tasmanian Export Awards – Manufacturing & Materials



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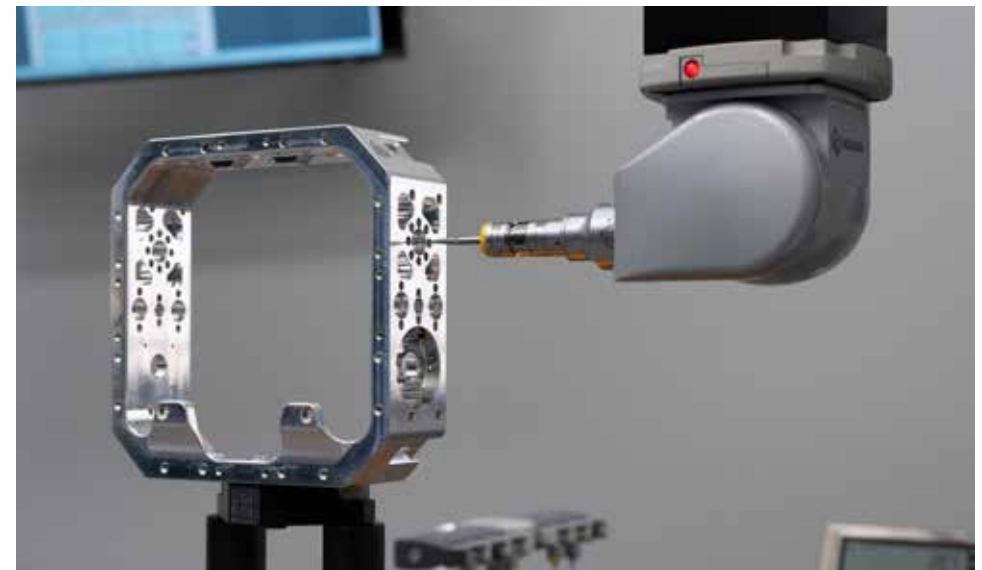
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MARITIME

LAND

Products and services

- Precision manufacturing: Using CNC technology to produce parts with tight tolerances and high accuracy.
- Multi-axis capabilities: Machines capable of 3, 4 or 5-axis operations to create complex geometrics.
- CAD/CAM integration: Seamless integration with computer aided design (CAD) and computer aided manufacturing (CAM) software for efficient workflow.
- Quality control: Rigorous inspection processes to ensure precision and adherence to specifications.
- Prototyping and production: Capable of both prototype development and high-volume production runs.
- Custom fabrication: Tailored fabrication solutions to meet specific customer requirements.

Capabilities

- Three 5-axis CNC machining centres.
- Two 3-axis CNC machining centres.
- Three CNC lathes with live tooling.
- Two CNC lathe turning centres.
- CNC profile cutting.
- Robotic welding cell.

Competitive discriminators

- Supplier of manufacturing services to Australian and international OEM customers since 2002.
- Certified and currently exporting to international customers since 2013.
- Collaborate with key customers to provide one-off prototypes and production schedules to meet tight deadlines.
- Local management and qualified staff with a high focus on quality and lean manufacturing.

Key customers

- AQ1 Systems
- Bluestone Mines
- Caterpillar Underground Mining
- Direct Edge
- Elphinstone Group
- Epiroc
- Grange Resources
- William Adams

Key partners

- BlueScope Steel
- Coastal Engineering and Belting
- InfraBuild
- John Hart Pty Ltd
- Sutton Tools Pty Ltd
- Voestalpine High Performance Metals

Quality accreditations and awards

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environmental
- ISO 45001:2018 – Safety



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MARITIME

Products and services

- Muir designs, manufactures and supplies anchoring systems, chain management systems and mooring equipment to leading commercial shipyards, navies and coastguards globally.
- Muir has set industry standards and benchmarks for heavy-lift anchoring systems internationally, based on practical experience, uncompromising engineering principles and quality Australian input materials.

Capabilities

- Muir works closely with naval architects, builders, and engineers to design and manufacture complete anchoring systems for naval and commercial vessels up to 160 metres.
- Anchoring systems are comprehensively tested to Class or Type Approval when required.
- Proven and tested designs that can be customised to suit specific customer requirements.
- Continued focus on R&D, which has seen the progression and expansion of high power-to-weight ratio equipment that is dependable.

Competitive discriminators

- For over 50 years Muir has been designing and manufacturing anchoring systems that have withstood the test of time, and the test of nature, as Tasmania's harsh and challenging marine environment means that anything made here must be made well. And it must be made to last.
- With a comprehensive quality assurance system to ensure durability and safety, Muir's winches, windlasses and deck equipment are respected for their design, quality and performance.
- Leading recreational and commercial maritime brands including Riviera, Maritimo, Telwater and Feadship use Muir's equipment exclusively.
- Muir's equipment has been approved and certified by all of the leading classification societies including Lloyds, Bureau Veritas, DNV and American Bureau of Shipping.
- National network of experienced sales managers and a trusted international distribution network.

- Service is covered on a global scale with service agents in the United States of America, Europe and Asia ensuring a smooth flow of spares and ongoing support.
- All manufacturing is completed in our Hobart, Australia factory by our skilled craftsmen using highest quality materials with our proven designs.

Key customers

- ABG Shipyard – India
- Austal Ships
- Australian Defence Industries
- Birdon Group
- Damen Naval (Via Belship BV)
- Grandweld Shipyard – UAE
- International Catamarans – Australia
- KND Projects – South Africa
- Larsen & Toubro – India
- NQEA – Australia
- NVL – Luerksen Australia
- Otto Perl
- Richmond Shipyards – Canada
- Royal Bahamas Defence Force
- Thales
- US Coast Guard
- Yonca Onuk – Turkey

Key partners

- Muir works collaboratively with naval architects, Australian and international shipbuilders on a range of projects
- Defence projects include: the Guardian Class Pacific Patrol Boats (21 vessels), the Armidale Class Patrol Boat (14 vessels), Cape Class Patrol Boat (10 vessels) and earlier Pacific Patrol Boat (22 vessels)
- Muir has also completed projects internationally in India, Indonesia, South Africa, Pacific Islands, Canada, UAE, Oman, Turkey and with the US Coast Guard
- Muir works closely with all major classification societies

Quality accreditations

- ISO 9001:2015 – Quality
- DNV, ABS welding certification
- Type and product approval capabilities for all class societies



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MARITIME

LAND

Products and services

- Norfolk Blinds manufacture marine anti-glare blinds and screen solutions for both the accommodation and bridge / navigation areas of ships and also for civil uses.
- DNV Type approved anti-glare blinds for ships bridges.
- Range of anti-glare roller screens.

Capabilities

- Internationally certified product available in Tasmania.
- Over 30 years' experience in manufacturing.

Competitive discriminators

- Australian made product manufactured for extreme conditions.
- Fast local service.
- Advantage of local maintenance.
- Lean manufacturing practitioners.

Key customers

- Incat Tasmania
- Richardson Devine Marine
- TT-Line

Quality accreditations

- In the process of obtaining DNV Certification
- Externally audited to meet or exceed NBQA-2 000 standards
- Lean manufacturing practitioners



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MARITIME

ICT

Products and services

- Data: Industry-leading data collection, powered by maritime machine learning, to enable faster and better decision-making.
- Operations: Configurable, integrated, surface and subsurface, autonomy-centric operations that reduce risk and drive performance in challenging and complex maritime environments.
- Remote capabilities: Build and delivery of secure, remote operations through proprietary systems, software and services, including onshore operations centres.

Capabilities

- Deep-water and littoral survey and salvage, critical national infrastructure monitoring, asset integrity and inspection surveys, UXO clearance, seabed node deployment and recovery over wide areas at speed.
- High-resolution technical surveys for detailed site investigations, safety of navigation, and the maintenance and repair of structures, pipelines and cables.
- Routine deep-water operations at 6,000m water depth, in single or multi-asset configurations.
- Using AI and machine learning for fast processing of large data volumes.

Competitive discriminators

- Technology is Ocean Infinity's differentiator. The company's advanced technology enables unparalleled accuracy to be achieved in complex maritime operations, surpassing previously established limits. By employing innovative technical solutions, Ocean Infinity excels in data collection and target acquisition, at the very limits of ranges, depths and seabed-obstructed conditions.
- The company's autonomous and remote operations leverage its own proprietary technology – enhanced by powerful AI algorithms trained on Ocean Infinity's extensive data catalogue – integrated with best-in-class capabilities from its trusted supply chain to deliver market-leading accuracy.

Ocean Infinity achieves this through:

- Reliability through deep operating experience
- Industrialised innovation through scaled production capabilities
- Integrated solutions, not components
- Services to support solution and product co-design, not pre-conceived ideas
- World-class expertise and diverse skills in surface, sub-surface, autonomy, communications, networks, defence and civil applications
- Trusted, established, reliable and flexible supply chain drawing on best-in-class global and tested local solutions
- Accuracy and resilience at reach including in polar, oceanic, shallow and deep-water maritime environments
- Speed, investing ahead of demand to maintain a market-leading capability
- Autonomy-first DNA, delivered in a cyber-first architecture.

Key customers and partners

- Australian Government Department of Defence
 - HydroScheme Industry Partnership Program
- Commercial oil and gas clients
- Federal government and state government agencies
- Ports and harbour authorities
- Renewables / offshore wind
- Scientific and research sector

Quality accreditations and awards

- ISO 14001:2015 – Environmental
- ISO 45001:2018 – Occupational health and safety
- ISO 9001:2015 – Quality



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MARITIME

Products and services

- High speed support vessels and marine crew.
- Offshore support tugs and marine crew.

Capabilities

- Supply of modern vessels and certified crews to support defence and offshore operations, survey, search and rescue, crew and stores transfers.
- Vessels available throughout Australian ports.

Competitive discriminators

- New Australian built vessels, high speed, locally trained crews.
- Local management, support facilities in Hobart and Exmouth.

Key customers

- Hydrographic survey organisations
- Oil and gas industry
- Other customers available on request

Key partners

- Australian geophysical and geotechnical survey companies
- Australian oil and gas majors
- Australian ROV and AUV operators
- Royal Australian Navy HydroScheme Industry Partnership Program vessel operators

Quality accreditations

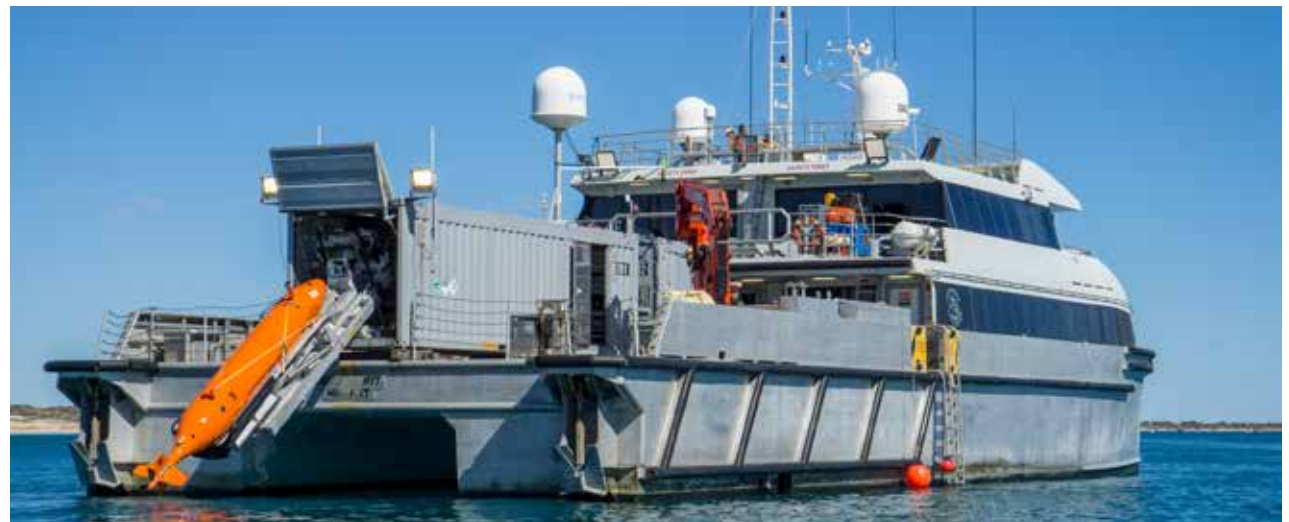
- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – Safety
- ISN HSE A Grade



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MARITIME

LAND

Products and services

- Penguin Composites has the capability to manufacture in a variety of processes including hand-layup, resin infusion, resin transfer moulding, silicone bagging and filament winding.
- Products include:
 - glass reinforced plastics, carbon, kevlar, composite laminates
 - vehicle panels and fuel tanks for defence
 - special applications i.e. mast bases, pressure vessels, escape slides, carbon fibre laminates
 - fire shields, piping
 - weight reduction and anti-corrosion projects
 - marine structure rehabilitation
 - special purpose structures such as extreme climate and lightweight shelter kits
 - bespoke architectural items such as louvres, panels showers and toilets.
- Services offered by the company include composite design, prototyping, tooling, part production and repairs.

Capabilities

- Composite fabrication (including carbon).
- Hand-layup.
- Resin infusion / silicone bagging.
- Resin transfer moulding.
- Filament winding.
- Metal fabrication and electrical installation.
- APAS painting.

Competitive discriminators

- Design capability.
- Tooling.
- Fabricate small to medium volume parts.
- Aftermarket support.
- Internal governance structures, ERP software, internal quality plans and standard work procedures.
- Focus on Lean manufacturing.

Key customers

- Airport Maintenance Systems
- Caterpillar Underground Mining (since 2000)
- Elphinstone Group (since 1990)
- EOS (maritime and land gun shields)
- Fusion Capital Group – Fusion Transport
- Grange Resources
- Hanwha Defence
- Hanwha Defence Australia (Huntsman project Land 8116 Phase 1)
- Muirs Windlasses
- Qube Logistics
- Thales Australia (Hawkei project)
- Sykes Rowing
- State and local government

Key partners

- Allnex Resins
- Australian Maritime College
- Caravans Australia
- Composites Australia
- Productivity Improvers
- USQ Centre for Future Materials
- UTAS - Defence Testing

Quality accreditations

- ISO 9001:2015 – Quality



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MARITIME

LAND

AIR

R and E

Products and services

- Nationwide supply, installation, training and lifetime support of world- class Baykal fibre laser cutting machines, Baykal press brake machines, and Flow waterjet machines.
- Comprehensive service network with skilled technicians strategically positioned nationwide, ensuring prompt assistance for all capital cities.
- Design and manufacture of abrasive sludge removal systems, which eliminate downtime and mess associated with removing garnet waste.

Capabilities

- Supply of high-precision, state-of-the-art CNC technology: Baykal fibre laser cutters, Baykal press brakes, and Flow waterjet machines for a broad and versatile range of material applications.
- Tailored solutions: Custom configurations to meet industry-specific needs and boost production.
- Educational support: High-quality, safe machinery with comprehensive training for educational set-ups.
- Industry-specific applications: Specialised solutions for aerospace, defence, construction, and more sectors.

Competitive discriminators

- Nationwide technician network: Highly trained service technicians across Australia for prompt and efficient service.
- Efficient spare parts supply: Over \$2 million worth of critical components and consumables stocked in all eastern states, ready for next-day dispatch.
- Custom testing and validation: Test cutting capabilities with accurate costings for customer process validation.
- Proactive maintenance: A preventative maintenance program is included with every installation to ensure long-term reliability.
- Experienced provider: Over 20 years of industry experience, offering dependable and innovative solutions.
- Australian owned: Proudly 100% Australian-owned and operated, committed to supporting local industries and customers.

Key customers

- Australian Expedition Vehicles
- CSR
- Department of Defence
- Direct Edge
- Frontline Engineering
- Kangan Institute
- National Glass
- QinetiQ
- TAFE
- University of Western Sydney
- Viridian

Key partners

- Baykal
- Flow Corporation
- GMA Garnet
- H20JET
- KMT Waterjet



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MARITIME

ICT

R and E

Products and services

- Specialist maritime simulation systems, ranging from small-craft RHIB simulators to full mission multipurpose bridge navigation and shiphandling simulators.
- Easily customisable to meet client requirements, for use onboard ships or on land, with an extensive database of sophisticated ship models and port / sea areas.
- Deployed for operations requiring a high level of accuracy and realism, including mission rehearsals, vessel familiarisations, safety risk and competency assessments, and ship design and performance evaluation.

Capabilities

- Maritime simulation manufacturing and services.
- Pivot's specialty: portable simulators designed for use on land or onboard ships, where the actual ship and its operating environment are modelled with scientific accuracy and visual realism.
- Pivot's goal is to keep people in peak performance, wherever they may be. To achieve this, Pivot:
 - create simulation systems that are intelligent, accurate and realistic so that the simulation environment faithfully mimics the real environment, providing a high degree of confidence in simulation results
 - give these systems global reach: by configuring them into compact units for ready transport to any location, and by making them accessible on the cloud, using real-time data, through fast and reliable internet connections.

Competitive discriminators

- The only Australian manufacturer of maritime simulators.
- Producer of robust intelligent simulators for use on land or any ship to keep people in peak performance, wherever they may be.
- Specialty: Portable Simulation Systems.
- Featured systems: MultiSim (Desktop Simulator), ContainerSim (Container Simulator), VR motion chair.

Key customers

- Commercial shipowners
- Defence forces (navy and army) of Australia and allied countries
- Maritime ancillary service providers
- Maritime regulators
- Maritime training institutions
- Military training institutions
- Port engineering consultants
- Ports and port authorities

Key partners

- Furuno Japan and Furuno Australia
- University consortia for defence and industry research

Awards

- Australian Defence Industry Awards (Innovator of the Year – Individual), 2023
- AIIA National iAwards (Business and Industry Solution), 2022
- IndoPacific SME Innovation Awards, High Commendation 2022
- TasICT Excellence Awards (Innovation, Exporter of the Year) 2021, 2022
- Pacific 2015 Maritime Industry Innovation Awards (Civil SME)
- Australian Export Awards (SME), 2009, 2010



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MARITIME

LAND

AIR

SPACE

Products and services

- PT Motorsport is an experienced Tasmanian designer and manufacturer of wiring and interconnection solutions, including:
 - Wiring harness design
 - Wiring harness fabrication
 - Wiring harness repair
 - Power distribution system design
 - Power distribution system fabrication.
- The company is a supplier of hardware:
 - M81044-12 wire
 - Deutsch and military-specification connectors
 - Wire sheathing supplies
 - Wiring harness fabrication consumables
 - Power distribution hardware
 - CAN bus keyboards, displays and other hardware.

Capabilities

- End-to-end wiring harness design, manufacturing and implementation, as well as maintenance and repair.
- In-house CAD and 3D modelling and rapid prototyping through 3D printing and CNC machining.
- Custom printed circuit board design.
- Custom integration of new and old systems.
- Custom CAN bus solutions.

Competitive discriminators

- 100% Tasmanian owned and operated.
- Experienced at creating fully customised electronic fuel injection solutions, including the design phase, sourcing of hardware, and construction of a complete solution, with required bracketry and hardware, harness pass-throughs, and custom integration of existing or required systems.
- Large array of low voltage connectors in stock (Aptiv, Bosch, Furukawa, Sumitomo, TE Connectivity, Yazaki).

- Capacity for high-volume production and bespoke one-off and to-print wiring harnesses.

Key customers

- Active Marine
- ECUMaster Australia
- Kings Motorsport Wiring
- Konnect Kables
- Passion Garage
- Platinum Tuning
- RMIT University
- Zoli Motorsport

Key partners

- Aptiv
- Blink Marine
- Cambridge Technologies
- CANchecked
- Handmade Metal and Performance
- HellermannTyton
- Ionnic
- Team Plus
- TE Connectivity

Quality accreditations and awards

In the process of obtaining the following accreditations:

- AS9100D
- ISO 9001:2015 - Quality
- IPC A-600/610/620
- IPC J-STD-001E



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MARITIME

ICT

R and E

Products and services

- Seaforce is a provider of engineering, capability, procurement and management services.
- Seaforce delivers dependable, sustainable solutions suited to the unique needs of the wider defence industry.

Capabilities

- Seaforce's subject matter expertise includes maritime and platform systems engineering, project and contract management, technical documentation development, technical investigations, risk assessment, training, integrated logistics support, warship combat systems engineering, life-of-type extensions, and technical integrity auditing.
- In addition to consulting services, Seaforce provides tangible capability solutions to Defence. Between 2010 and 2014, Seaforce successfully chartered the 108m offshore support vessel Australian Defence Vessel (ADV) *Ocean Protector* to Customs (now Australian Border Force).
- On the back of this success, Seaforce acted as the prime contractor for mobilisation of Australian Border Force Cutter (ABFC) *Ocean Shield* during her transfer from Navy to ABF in 2016.

Competitive discriminators

- 100% Australian owned small-medium enterprise employing over 40 employees and consultants across whole-of-defence.
- Seaforce's leadership team have over 125 years' combined experience in Navy and the wider defence industry.
- Established in 2008, Seaforce's proven history of supporting the Department of Defence and other federal agencies demonstrates our thorough understanding of present and future Defence requirements.

Key customers

- Department of Defence – Capability Acquisition and Sustainment Group
- Department of Defence – Defence Science and Technology Group
- Department of Defence – Naval Shipbuilding and Sustainment Group

- Department of Defence – Royal Australian Navy
- Department of Home Affairs – Australian Border Force Maritime Capability Sustainment Branch

Key partners

- Australian Industry and Defence Network (AIDN)
- ADEC Kedge
- AVANT Group
- C4i Solutions
- Australian Federal Police Capability Support Services (CSS) Panel
- Defence Support Services (DSS) Panel
- Digital Transformation Agency (DTA) BuyICT Panel
- Taylor Bros
- University of New South Wales – Australian Defence Force Academy
- University of Tasmania – Australian Maritime College

Quality accreditations and awards

- Defence Industry Security Program (DISP)
- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environmental
- ISO 45001:2018 – Safety
- Veterans Employment Program



SEAFORCE
MARITIME • ENGINEERING • DEFENCE

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MARITIME

LAND

Products and services

- Sentinel Boats has close to 30 years' experience building vessels capable of performing in the toughest conditions on the planet.
- Sentinel Boats began building workboats that were strong, stable and required minimal maintenance or operational downtime. The unique capabilities of their vessels have since gained recognition across the defence, law reinforcement and search and rescue sectors.
- Sentinel Boats are in service with the Australian Defence Force, Royal New Zealand Navy, various police forces, and have been included in Australia's military aid contribution to Ukraine. Their vessels are also in operation around Australia with numerous rescue organisations and government departments, as well as commercial operators.

Competitive discriminators

Longevity

- Expertly crafted using high density polyethylene (HDPE), Sentinel Boats will last three to four times longer than aluminium vessels in medium to high use environments.
- Sentinel Boats provide significant whole-of-life operational savings over equivalent aluminium, fibreglass or composite hulls.

Safety

- The unique vibration dampening qualities and positive buoyancy of HDPE contribute to unrivaled handling, stability and anti-fatigue characteristics.
- Sentinel Boats are virtually indestructible, with the ability to withstand hard beaching and contact with under water obstacles that would render other vessels inoperable.

Tailored Performance

- Every Sentinel is custom designed and configured to meet the specific requirements of our clients. Our vessels are hand-built in Australia by highly skilled craftspeople using proprietary techniques.
- Working in close partnership with One2Three naval architects allows us to respond to even the most demanding design and capability requests.

Key customers

- Australian Maritime Safety Authority
- Queensland and Tasmania Police
- New South Wales Marine Rescue
- New Zealand Defence Force
- Northern Territory Police
- NSW Marine Rescue
- WA Department of Fire and Emergency Services
- Victorian Parks

Key partners

- One2three Naval Architects
- Bellingier Systems
- Systematiq

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Vessels manufactured to NSCV or class society standards
- 2023 Prime Contractor of the Year, New Zealand Minister of Defence Awards of Excellence to Industry
- 2023 Innovative Patrol Boat, Baird Maritime Awards
- Ausmarine: 2020 Best RIB Patrol Boat, 2019 Best Patrol Boat, 2016 Best Aquaculture Support Vessel, 2012 and 2014 Best Specialty Boat Builder
- 2016 Australian International Marine Export Group, Commercial
- 2015 Workboat World, Best Survey Vessel Builder

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BOATS

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MARITIME

LAND

AIR

SPACE

Products and services

- In collaboration with shipbuilders, Serco achieves innovative vessel design, build, and modifications. We provide commercial crews to operate support vessels and meet the needs of Defence and Government clients. We also provide engineering, maintenance, supply support, and offshore and inshore operations.
- Serco also delivers a number of other services on behalf of governments, including contact centres, facilities management, and healthcare.

Capabilities

- Design, build, operate and maintain (DBOM) ships and small craft.
- Marine support services.
- Acquisition and complex project management.
- Vessel operations and crewing.
- Repair and maintenance.
- Satellite ground segment operations.

Competitive discriminators

- Supporting the Australian Defence Force for more than 25 years.
- Turnkey DBOM services with Hobart base of shore support staff and multiple swing crews.
- Antarctic experience.
- Embedded within Tasmania's supply chain.
- Highly qualified and specialist teams.
- Strong safety culture and performance.

Key customers

- Australian Antarctic Division
- Royal Australian Navy

Key partners

- Australian Maritime College
- City of Hobart
- Crisp Bros Haywards
- Damen
- Inchcape Shipping Services
- Pivot Maritime International
- Qube
- Tasmanian Government
- Tasmanian Polar Network INC
- Tasmanian Shipping Supplies
- Taylor Bros Marine

Quality accreditations and awards

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environmental
- ISO 45001:2018 – Safety
- ISO – 55001 Asset Management
- ISO – 50001 Energy Management
- Soldier On – Platinum Pledge partner
- 2022 Finalist – Prime Minister's National Veterans' Employment Awards
- 2022 Finalist: AIC Champion of the Year, Naval Business of the Year, Veterans Support Program of the Year



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MARITIME

Products and services

- Southern Ocean Subsea (SoSub) is a well-known player in Australia for innovative and customised subsea systems and Remotely Operated Vehicles (ROVs).
- SoSub designs, manufactures and maintains ROVs and subsea systems for clients suited to a various environments and applications.
- The company's main product, the APAMA ROV, is a highly capable, lightweight ROV designed to meet the aquaculture industry's need for an easy-to-handle and reliable solution.
- SoSub has established a state-of-the-art manufacturing plant with Industry 4.0 technologies aimed at commercialising new products.
- The company's expertise in scientific research, aquaculture, marine and commercial shipping can be extended into applications for defence projects.
- SoSub collaborated with the Australian Maritime College and Ocius to develop 'IDrouge', an autonomous means of capturing and releasing autonomous underwater vehicles at calm depth.

Capabilities

- Research and development of ROV and subsea technologies.
- Hydrostatic pressure testing facility to depth up to 1,000m.
- Design and build of ROV's and peripheral equipment.
- Supply of ROV technologies as distributor.
- Customisation of standard machines to requirements.
- Service and maintenance of subsea equipment.
- Subsea connector customisation (down to 6,000m).

Competitive discriminators

- Australian in-house designers and engineers.
- Australian factory and workshops.
- Workshop and fieldwork services.
- Advanced design and engineering knowledge.

- Experience in oil and gas, scientific research and survey, aquaculture, defence, ports and authorities and commercial shipping.

Key customers

- Aquaculture
- Defence supply chain
- Government authorities and regulators
- Private sector companies in primary industry
- Scientific research organisations

Key partners

- Distributors of global ROVs and peripheral manufacturers of many available technologies

Quality accreditations and awards

- ISO 9001:2015 – Quality
- Compliance with electrical standards for all environments



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MARITIME

LAND

Products and services

- Storemasta is passionate about making life safer and more efficient for the users of dangerous goods. Storemasta continues to lead the Australian and New Zealand dangerous goods storage industry.
- The team design and construct an extensive range of dangerous goods storage solutions such as safety cabinets, chemicals and storage containers, gas stores and lithium-ion battery management solutions. The development of our products is grounded in our in-depth knowledge of WHS legislation and the Australian Standards.

Capabilities

- **Tasmanian made:** Storemasta products are manufactured at our state-of-the-art facility in Burnie, on the north west coast of Tasmania. Our expert team continually innovates to offer flexible solutions of the highest quality. You'll receive all deliveries quickly due to our efficient distribution network.
- **Tailored solutions:** With in-house design engineers, Storemasta can seamlessly design, manufacture and deliver tailored solutions to solve your dangerous goods storage problems, while ensuring compliance. All solutions maximise efficiency and minimise risk.
- **Legislative knowledge:** All Storemasta products meet Australian safety standards. Our team are experts in dangerous goods regulations and requirements, with comprehensive knowledge of WHS legislation, the Australian Standards, industry applications and material handling solutions.
- **Service excellence:** Storemasta is a family owned and operated company with an excellent history and reputation. We are dedicated to improving safety and efficiency for users of dangerous goods. With a strong culture of applying Lean manufacturing principles, we are committed to service excellence.

Competitive discriminators

- Providing flexibility in design in dangerous goods storage solutions that fit requirements.
- Australian manufactured, with an established and stable history for 30+ years.

- Storemasta are experts in dangerous goods legislation and industry requirements. Storemasta is committed to the continuous improvement of design and innovation.
- Manufacturing from stainless steel, polyethylene, and mild-steel materials.
- Products designed and constructed to meet the requirements of the Australian Standards to ensure compliance.
- With a focus on ensuring unparalleled safety, relentless innovation and trusted compliance, Storemasta provides a complete DG management system.

Key customers and partners

- Australian Army bases
- Australian Federal Police
- BAE systems
- BHP Billiton
- Commonwealth Treasury
- Fortescue Future Industries
- Glencore
- Keller
- Price Waterhouse Coopers
- QUT
- Regal Rexnord
- Rio Tinto
- Royal Australian Air Force
- Royal Australian Navy
- UNSW
- USG Boral

Quality accreditations

- ISO 9001:2015 - Quality



STOREMASTA

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MARITIME

LAND

AIR

Products and services

- Tamar Hydro Pty Ltd has over 40 years' experience in pump overhauls including strip, inspect and reporting, new castings /material improvement, and mechanical engineering support.
- It is a specialist in mechanical design and drafting, electrical design and drafting, precision fitting and machining, fabrication and welding, electrical switchboard manufacturing, design and construction of control systems, project management and pump refurbishment.

Capabilities

- Availability of 1,200m² floor space, multiple overhead cranes with up to 10 tonne lifting capacity and a large range of plant and equipment.
- 3D modelling software that can be used in conjunction with component and system design, complex calculations and an accurate bill of materials.
- Provision of ETR and FAT documentation supported by electrical and control engineers with experience in PLC control, HMI screens and remote monitoring.
- Experienced in fabricating complex structures which encompass a variety of construction materials including steel, mild and hi-tensile, stainless steel, bronze and dissimilar metals.
- Specialised welding in MIG, TIG and MMAW processes including pressure pipe and vessels.
- Live tapping of under pressure water mains 80mm to 600mm.
- Pump test tank facility.

Competitive discriminators

- Tamar Hydro provides innovative end-to-end services in the design, fabrication, installation, commissioning and maintenance of hydro-electric generation solutions and across broader design and construction offerings.
- Industrial pumping department with significant experience in repair, upgrades and refurbishments.
- Offering complete machine replacement, re-engineering of components and systems, valve refurbishments and modernised control systems.
- Specialty marine pumps.
- Lightweight portable transfer pumps.

- Bilge manifolds and marine valves.
- Under pressure water main tapplings.
- Pelton, Turgo Impulse, Francis and Kaplan hydro turbines.
- Solar battery systems.

Key customers

- Australian Army
- Australian Border Force
- Department of Natural Environment Tasmania
- Energy Power Systems (subcontractor to Austal Ships for the Cape Class patrol boat)
- Hydro Tasmania
- Melbourne Water, SA Water, TasWater and Sydney Water
- Pivot Maritime International
- River Power Tasmania and Nietta Hydro
- Royal Australian Navy

Key partners

- Harvest Water
- Turcomp

Quality accreditations

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- ISO 45001:2018 – Safety



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R and E

Products and services

- Nationally recognised qualifications and specific skills sets including:
 - metal trades and engineering apprenticeships
 - plumbing apprenticeships and traineeships
 - building and construction apprenticeships and traineeships in the construction and allied trades industry
 - electrotechnology apprenticeships and traineeships
 - automotive apprenticeships and traineeships
 - business and information communication and technology (ICT) courses. More details available at www.tastafe.tas.edu.au/courses
- Short courses and skill sets are offered in a wide range of areas including metal trades, construction / plumbing / allied trades and electrotechnology. These focus on licensing, accreditation and certification for specific activities being undertaken in workplaces and worksites. More details available at www.tastafe.tas.edu.au/shortcourses

Capabilities

- A network of campuses and training facilities statewide, including specialist training facilities for automotive, metal engineering, plumbing and electrotechnology and around 200 courses and qualifications available.
- Metals training facilities state-wide specialising in delivering courses in the metal trades industry areas.
- Dedicated teaching teams who hold professional qualifications, including industry competency and currency.
- Works closely with industry to enable employers to multi-skill their workforce, improve productivity and expand workforce capability.

Competitive discriminators

- Tasmania's largest vocational education and training provider.
- Dedicated workforce development focus and customised training available for business and industry.
- Close working relationship with Tasmania's manufacturing industry, including a number of validated industry linkages.

- Help deliver the highest apprenticeship completion rates in Australia.
- Highest student satisfaction rates nationally at 91%.

Key customers

- Aurora Energy
- Australian Antarctic Division
- Hydro Tasmania
- Incat Australia
- Nyrstar
- Tas Networks

Key partners

- Bell Bay Advanced Manufacturing Zone
- Civil Contractors Federation
- National Electrical and Communications Association (NECA)
- Tasmanian Minerals, Manufacturing and Energy Council
- University of Tasmania

Quality accreditations and awards

- Accreditation for seven years from the national regulator (ASQA) in 2019
- Tasmanian Large Training Provider of the Year – 2020
- Apprentice of the Year and Vocational Student of the Year – 2020 Australian Training Awards



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MARITIME

Products and services

- Marine and offshore engineering products and services, specialising in accommodation solutions for defence, oil and gas and general marine applications.
- A multi-discipline engineering company with a highly-skilled, innovative and flexible workforce, Taylor Bros can manage project delivery locally, nationally, internationally and offshore.

Capabilities

- Outfit accommodation.
- Marine engineering.
- General engineering.
- Design, engineering and naval architecture.
- Finite element analysis.
- Diesel engine services.
- Mobile accommodation.
- Shipping services.
- Ship conversions and modifications.
- Ship refits.
- Project management.
- Quality assurance and configuration management.
- Integrated logistic support services.

Competitive discriminators

- Multi-skilled workforce to conduct work locally, nationally, internationally and offshore.
- BOSIET certification allowing employees to work offshore in the oil and gas industry.
- Prefabrication techniques used to reduce fabrication required onboard or at shipyard during build or maintenance, increasing efficiency and productivity.
- Engineering, naval architecture and design through to manufacture, installation and in-service support of a wide variety of marine facilities, equipment and systems.
- Experienced provider of class and Royal Australian Navy approved facilities, equipment and systems.

Key customers and partners

- ASC Shipbuilder Pty Ltd (AWD Project)
- ASP Ship Management
- Atlantic and Peninsula Australia
- Australian Government – Australian Antarctic Division
- Australian Government – Customs and Border Protection
- Australian Government – Department of Defence – Capability and Sustainment Group
- BAE Systems – Australia (LHD Project)
- Cvmec
- CSIRO – Marine National Facility
- Damen Group
- Delegaciones Reunidas Novofri S.A
- Diamond Offshore
- Farstad Solstad
- Gabadi S.L.
- Leurrssen Australia (OPV Project)
- Modec
- Navantia S.A. (AOR Project)
- Origin Energy
- P&O Maritime
- SeaForce
- Serco Asia Pacific
- Staco Co Ltd
- Thales – Australia
- Trelleborg Marine Systems

Quality accreditations

- ISO 9001:2015 – Quality



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MARITIME

LAND

AIR

Products and services

- In-house manufacture of drones, education (including training), services (including support and maintenance) and sales of hardware.
- Teleoperated aerial surveillance missions using DJI Dock 2.
- Rapid mapping and situation assessment with thermal capabilities.

Capabilities

- Execution of remote, teleoperated surveillance missions from anywhere with a wi-fi connection, harnessing the power of new drone-in-a-box technology. Missions can be executed at the same or different times throughout the day.
- Taz Drone Solutions' drones are equipped with advanced thermal mapping capabilities, enabling precise detection of intruders or enemies. This technology uses infrared sensors to detect heat signatures, enabling our drones to identify and track individuals even in complete darkness or through obstacles like foliage and light cover.
- Customisation is a key aspect of our services. Taz Drone Solutions specialise in developing payloads that enhance drone capabilities. For example, Taz Drone Solutions created a remotely controlled payload (Tripod) that can be released by the drone pilot using high safety protocols. This system, developed after a mining sector fatality, offers a safer and more efficient method for monitoring and controlling mining operations.

Competitive discriminators

- Engineer all drones in-house.
- Extremely flexible and agnostic when solving industry problems through our rapid in-house design, testing and execution.
- Beyond visual line-of sight (BVLOS) accredited and are currently working closely with CASA to execute BVLOS missions for future emergency operations such as drone aerial ignition/fuel reduction with our in-house designed Drip Torch.
- Breadth of experience solving problems across the mining, energy, agriculture, government and forestry sectors.

Key customers

- Australian Antarctic Program (Australian Government)
- BHP
- Burnie City Council and Cradle Coast Authority
- Energex
- Mineral Resources Ltd
- Rio Tinto
- Tasmanian Government entities, including Hydro Tasmania, Sustainable Timber Tas, Tasmania Fire Service, Parks and Wildlife Service, Tas Police, TasPorts, TasWater, TasNetworks
- University of Tasmania
- Zinfra

Key partners

- Air Inspection
- AVCRM
- D1 Drones
- Engineers Australia
- Global Drone Solutions
- Indicium
- Robotics Cats
- Southern Ocean Subsea Pty Ltd (SoSub)
- Summit Power

Quality accreditations

- CASA Accreditation – Remotely piloted aircraft operator's certificate ReOC 6303 Revision 4
- Australia Association for Uncrewed Systems – AAUS Innovation Finalist 2020
- Australia Association for Uncrewed Systems – AAUS Next Gen Finalist 2021
- Basic Aviation Risk Standard
- Beyond Visual Line of Sight (BVLOS, ReB1) – Civil Aviation Safety Authority



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MARITIME

ICT

Products and services

- Detailed, accurate and validated oceanographic and meteorological data, including global weather, waves, sea temperature, ocean and tidal currents.
- Web map services, data services via application programming interface.
- Numerical models of tidal elevations, currents, storm and tide surges.

Capabilities

- Constructing and operating hydrodynamic models which output tidal elevations, currents, storm and tide surges.
- Scientific assessment of third party meteorological and oceanographic datasets.
- Construction and management of cloud-based data platforms to handle large scale, complex meteorological and oceanographic datasets.

Competitive discriminators

- Tidetech's primary scientific expertise lies in constructing and running numerical models which output tidal elevations, currents, storm and tide surges.
- Tidetech's scientists are former United Kingdom Government researchers who were the expertise behind the world's first operational tide-surge model.
- Tidetech can produce new models for anywhere in the world, for specific purposes or as required.
- Tidetech provide a comprehensive catalogue of accurate and detailed high-resolution meteorological data products unmatched elsewhere.
- Scientific output can be accessed by third party software and systems providers for use in proprietary solutions.

Key customers

- Austal
- Class NK Napa
- Deep Sea Technologies
- Wärtsilä

Key partners

- CSIRO Kickstart
- DNV GL Veracity

Quality accreditations

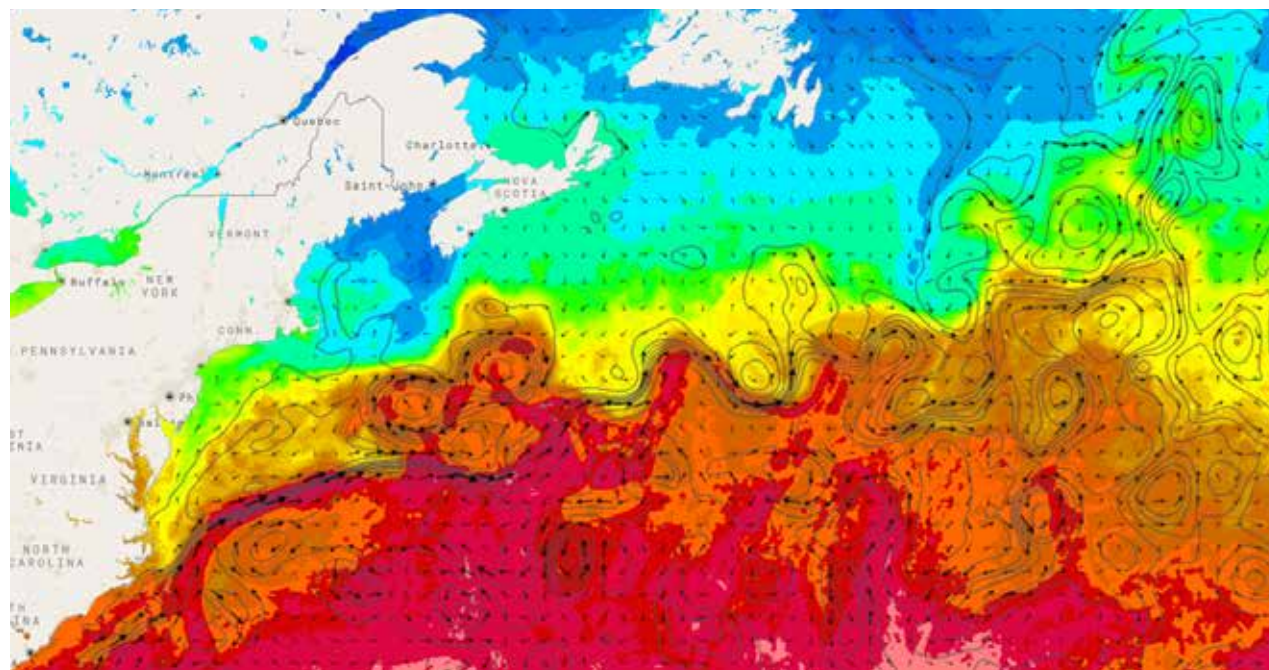
ISO 27001 – Information Security Management (pending)

tidetech
Applied Oceanography

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R and E

Products and services

- TMEC is a membership-based organisation representing the state's manufacturing and high intensive energy consumers, mining exploration, extraction and processing businesses, and associated supply chains.
- The annual TMEC industry conference is attended by delegates from across Tasmania, and creates opportunities for industry development, collaboration and sharing of innovative ideas.
- TMEC's Manufacturing Centre for Excellence provides facilities, training spaces and equipment designed to develop workers' and students' skills in advanced manufacturing.

Capabilities

The Manufacturing Centre of Excellence includes:

- A Simulated Work Environment (SWE), owned by the Elphinstone Group. Productivity Improvers' facilitators deliver Lean manufacturing and continuous improvement training on behalf of their Registered Training Organisation, People Improvers. It is the largest SWE in the Southern Hemisphere, providing interactive and practical training for groups of at least 17 participants.
- The Advanced Welding Training Centre (AWTC) with five portable augmented-reality simulators that mimic real welding experiences and are compatible with live welding equipment. The AWTC is Tasmania's only Weld Australia testing facility, and is therefore able to train, test and certify welders. The AWTC includes Soldamatic and Linchon simulated and augmented technologies. ABB GoFA 1 500 Collaborative Robot and Fanuc CNC Desktop Simulator Console.
- TMEC in partnership with Weld Australia deliver International Welding Inspector training, welder certification and onsite welding inspection services.
- Leadership training, which is aimed at Tasmanian industry members who are transitioning from roles as 'workers' to 'leaders' and a one day Mentoring and Coaching Micro-credential.
- Regional insights tours, coordination of these tours allow key industry members to visit other world class businesses and learn in a collaborative and supportive environment.
- A variety of meeting rooms and training spaces with audio visual equipment and WIFI available for TMEC industry member hire.

- Career in Manufacturing and Mining Program at our facility or at Tasmanian schools utilising VR technology and Simulated Welders.
- Industry specific training in partnership with SRTA Life and Rescue and TasTAFE such as confined space, working at heights, first aid, fire warden, conduct hazard analysis onsite or at TMEC facility.
- Markforged 3D Printer for businesses to access for proof of concept printed designs.

Competitive discriminators

- The SWE training is based on Elphinstone production systems methods and draws on Lean principles. Continuous improvement is encouraged with an emphasis on collaboration and team communication. Courses are delivered by Productivity Improvers and the Elphinstone Group and are suitable for any industry.
- The AWTC simulators provide statistical feedback on weld quality, accuracy and comparative improvements in technique. Welding skills and techniques are developed in a safe learning environment, and training is faster and less expensive than traditional learning methods.
- The AWTC, is Tasmania's only Weld Australia Testing Facility, is able to train, test and certify welders and welds.

Key customers

TMEC members range from small to medium enterprises, to major national and international organisations including diverse industrials such as the Elphinstone Group, Jayben, Muir Engineering, Ignite Digi, William Adams, Definium Technologies and Ashgrove Cheese, along with over 50 other manufacturing members.

Key partners

- Mineral Resources Tasmania
- Other registered training organisations
- People Improvers
- SRTA Life and Rescue
- Tasmanian Government
- TasTAFE
- University of Tasmania
- Weld Australia



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MARITIME

LAND

Products and services

- Industry leading in sheet metal fabrication with expertise in mild steel, aluminium, and stainless steel. A skilled workforce with extensive experience has the ability to create custom solutions for clients' unique needs.
- Comprehensive solutions hire including crane and labour hire services to assist our client's requirements.
- Design and fabricating specialised customer trailers and toolboxes for tradespersons and other associated industries.
- Extensively servicing the food and mining sectors across Tasmania.

Capabilities

Fabrication

- Mild steel, aluminium, and stainless steel welding to industry certifications.
- Guillotine cutting at 6.5mm thick and 3.2m long, and pressing of up to 4mm thick plate at 3.2m long.
- Mandrel pipe bending from 12mm to 75mm.
- CAD design services to create detailed and accurate engineering drawings for clients' projects.
- Food grade and specialist welding, including structural steel, to ensure that all products meet the highest standards of quality and safety.

Crane

- 20 Tonne Franna with Boom Length of 17.9m.
- 2.5 Tonne Crawling Crane, can fit in a PA door able to lift 2.5 tonne and 500kg at 7.2m.

Competitive discriminators

- Offering vertically integrated fabrication, installation and labour hire, we are a full solutions hire.
- Project focused and able to take on jobs that others are unable to complete in full.
- Industry best lead times and commitments to customers.
- Various production batches from low quantities to high quantities.
- Accredited tradespersons including registered fitters and boiler makers, working in confined spaces certificates, working at heights certificates and rigging and dogging certificates.

Key customers

Civil

- Bridge Pro
- Hardings Hotmix
- Hydro Tasmania
- Local Councils
- Tas City Building

Industrial and food

- Ashgrove Cheese
- Simplot Devonport and Ulverstone

Mining

- Hellyer
- MMG
- Renison

Key partners

- Bluescope Steel Australia
- Harding Hotmix
- JDR Homes
- Stirlings Performance Steels
- Ullrich Aluminium



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MARITIME

LAND

ICT

R and E

Products and services

- The Defence & Maritime Innovation & Design Precinct (DMIDP) connects academia with industry to collaborate in R&D, Test & Evaluation and Consultancies.
- The DMIDP has been codeveloped with our key partner, Defence Science and Technology Group (DSTG) with the aim of improved design, operation and performance, materiel availability, survivability (susceptibility, vulnerability, and recoverability), and sustainment of surface and sub-surface vessels (including autonomous systems), and coastal, offshore, and subsea maritime structures.

Capabilities

- Autonomous Systems – Deployment & optimisation performance of AUV / USV systems in remote & complex environmental conditions. AUV / USV training, sensor integration, data collection, and test & evaluation.
- Cavitation and Turbulent Flows – Characterisation of cavitation & turbulence phenomena & effects (broadband noise, wake). Evaluation of threat susceptibility (vibration, noise, bioluminescence).
- Power & Energy – Predicting and modelling of demand, supply, distribution, control & management of energy systems. Optimising engine performance/emission reduction.
- Vessel Seakeeping and Stability – Dynamic motion & characteristics prediction. Evaluation of operational impacts & design factors.
- Manoeuvring – Hydrodynamic interaction forces & manoeuvring characteristics. Wake characterisation & shore/marina/berthed vessels threat susceptibility.
- Structural Integrity – Stress prediction due to wave-induced and extreme (collision, shock, blast) loads. Prediction of resilience and environmental degradation.
- Maritime & Logistics Management – Supply chain resilience, decarbonization of the supply chain, and adaptations of industry 4.0 technologies.
- Food Innovation – Food processing and packaging technologies that can produce innovative fresh-like, shelf-stable foods.

Competitive discriminators

- The largest and most advanced collection of maritime research facilities in the Southern Hemisphere
- Towing Tank (100m long) & Model Test Basin (12m x 35m) with specialist in-house model builders
- Cavitation Research Laboratory with variable pressure water tunnel
- Underwater Collision Research Facility with drop-tower, Split Hopkins Bars and universal testing machine
- Autonomous Maritime Systems Laboratory with fleet of UUV/USV/ROV, large AUV and support vessels
- Real-Time Power Systems Simulator with hardware in the loop
- Centre for Maritime Simulations with full mission bridge, integrated tugs and engineering simulator
- Marine Infrastructure & Integrity Laboratory with corrosion and metrology
- Common User Facility – Defence security compliant facility in development, enabling access to secure networks in a collaborative environment

Key partners

- Defence Science & Technology Group
- Kongsberg
- Fugro
- Ocean Infinity
- Navantia
- Penguin Composites
- Incat Crowther

Quality accreditations

- Defence Industry Security Program (DISP)
- Tertiary Education Quality and Standards Agency (TEQSA) and Australian Skills Quality Authority (ASQA) – RTO ID: 60131
- ISO 9001:2015 – Quality

UNIVERSITY of TASMANIA



Australian Maritime College

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Australian Maritime College
Maritime Way
Newnham Campus
University of Tasmania
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Virtual facility tours

Take a virtual tour through a selection of Tasmania's defence industry companies by accessing the QR codes.

CBG Systems



Muir Engineering



Crisp Bros & Haywards



Taylor Bros



Industry associations and networks

AIDN – Tasmania

The Australian Industry and Defence Network (AIDN) is the peak industry association representing small-to-medium enterprises (SME's). AIDN provides strategic advocacy and unified representation for Defence Industry SMEs to Federal Government, State Governments and Defence Prime Contractors.



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TasICT

TasICT is the Peak Industry Body for the Information, Communication and Technology Sector.



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ICN Tasmania

Industry Capability Network (ICN) Tasmania assists to connect buyers and suppliers through its industry specialists and powerful procurement sourcing platform, the ICN Gateway. The ICN streamlines procurement, maximises exposure of projects and assists to meet local industry participation goals.



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Tasmania Maritime Network

The Tasmania Maritime Network (TMN) is Tasmania's leading maritime grouping comprising various companies and organisations of exceptional expertise and leading edge products, services, technologies and skills. Members supply both the commercial and defence markets.



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Industry associations and networks continued

Tasmanian Minerals, Manufacturing and Energy Council

The Tasmanian Minerals, Manufacturing and Energy Council (TMEC) is a membership-based organisation representing the state's manufacturing and energy sectors, mining exploration, extraction and processing businesses, and associated supply chains.

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Tasmanian Polar Network

The Tasmanian Polar Network (TPN) is a group of businesses and scientific organisations based in Tasmania, that all have a common focus on serving commercial and scientific activity in the Antarctic, sub-Antarctic and Southern Ocean.

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TPN Chair

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Hobart port and waterfront with three Antarctic vessels berthed along side (MV Aiviq, RSV Nuyina and MV Happy Dragon)

Distance and air travel times

	Distance (approximate)	Air travel time
Hobart – Melbourne	598 km	One hour and 15 minutes
Hobart – Sydney	1 058 km	One hour and 45 minutes
Hobart – Brisbane	1 790 km	Two hours and 40 minutes
Hobart – Adelaide	1 161 km	Two hours
Hobart – Perth	3 009 km	Four hours and 55 minutes
Launceston – Melbourne	444 km	One hour and 5 minutes
Launceston – Sydney	914 km	One hour and 35 minutes
Launceston – Brisbane	1 642 km	Two hours and 30 minutes

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