Chair’s Foreword

Victoria’s industry has a rich and successful history in naval shipbuilding and makes an important contribution to the national naval shipbuilding industry capability. The same industry has a proven record of success in participating in the Collins Class submarine project and is currently part of the supply chain supporting the sustainment of the Collins Class fleet. That foundation means that Victoria’s submarine industry is well placed to contribute to the national and international supply chains supporting the delivery and sustainment of Australia’s future submarine fleet.

The Australian Industry & Defence Network – Victoria, with support from the State Government of Victoria, formed the Victorian Defence Alliance - Submarines. Membership is open to all companies operating in Victoria with the potential to supply into the submarine industry supply chain.

The Alliance supports industry in Victoria to win work in domestic and international submarine industry supply chains. It presents a single point of focus for the submarine industry in Victoria and supports industry through advocacy, the provision of opportunities for networking, collaboration and mentoring. Importantly, the Alliance provides streamlined and effective arrangements for connecting Alliance members with industry primes and key Government stakeholders.

The participation of many leading companies in the Alliance is testimony to the depth and diversity of the submarine industry in Victoria. These include many of the State’s small to medium enterprises that have a well-deserved reputation for innovation and technical excellence in advanced manufacturing and versatility.

Victoria’s strong defence R&D sector gives industry a competitive advantage when exploiting new technologies and innovative solutions in the submarine industry supply chain.

This directory presents the capabilities of the Victorian submarine industry supply chain and I thank the State Government for their support in its production.

I invite all those seeking proven and trusted supply chain partners for submarine industry work to consider the capabilities of the companies presented in this directory.

Rohan Stocker
Chair - VDA Submarines
Marand
Victorian Defence Alliance - Submarines Committee

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Richard Yanieri  
Committee Member  
Managing Director & Senior Consulting Engineer YTEK  
Tel: +61 (0) 419 027 128  
richard@ytek.com.au

Mission Statement

To be the catalyst through advocacy, networking, collaboration and mentoring for Victoria's industry to secure submarine industry work in the domestic and international supply chains.
NUSHIP PERTH, DEPARTS WILLIAMSTOWN

Nuship Perth departs Williamstown on its first voyage to its home Port of Perth.
Australian Industry & Defence Network – Victoria (AIDN-Vic)

Champion the cause of SMEs in Victoria’s Defence industry
The Australian Industry & Defence Network – Victoria (AIDN-Vic) facilitates interaction and communication within Victoria’s dynamic base of smaller defence supply companies, assisting members to exploit the opportunities provided by the Australian and international defence markets.

Victorian Defence Alliances
AIDN-Vic, in partnership with the Victorian Government, has established a number of Victorian Defence Alliances including one for the submarine sector (VDA-Submarines). The Alliances act as a catalyst through advocacy, networking, collaboration and mentoring to assist member companies to bid for work in national and international defence industry supply chains.

Defence Market Intelligence and Networking
AIDN-Vic helps its members’ network with other defence industry suppliers and provides connections with Defence and defence industry prime companies. AIDN-Vic organises networking events, seminars, trade missions and a range of other industry support initiatives.

Communication link between Industry and Government
AIDN-Vic represents the interests of its members by providing a communication link between those members and State and Commonwealth Government Departments. These include the Department of Defence (Capability, Acquisition and Sustainment Group), the Commonwealth Department of Industry, Innovation and Science and the Victorian Government Department of Economic Development, Jobs, Transport and Resources. AIDN-Vic also represents its members through advocacy on matters that shape defence industry policy.

National Organisation
AIDN-Vic, with over 250 member companies, is part of the AIDN National Organisation which includes State and Territory Chapters with a combined membership of 800+ companies.
Victorian Government’s Active Support

The Victorian Government values the contribution the defence business makes to the Victorian economy and the role industry plays in delivering competitive capabilities to the ADF and global supply chains.

The Victorian Government’s vision is for an innovative, globally competitive, highly skilled and adaptive defence industry that enhances its position at the leading edge of providers serving the ADF and global supply chains. The Victorian Government actively supports the state’s defence industry through:

- targeted investment advocacy, promoting Victoria as a competitive location for major defence prime contractors and projects
- facilitation of global collaboration by linking Victorian industry into international defence supply chains
- promotion of Victorian industry capabilities within domestic and international defence trade shows and missions
- provision of information to industry on defence market opportunities and procurement processes
- encouraging R&D through support for innovation and facilitation of infrastructure and new technologies
- developing a highly skilled workforce
- facilitating effective stakeholder engagement across the Victorian defence industry to develop teams of SMEs with the capacity and agility to target defence market opportunities
- industry support to help companies improve productivity and competitiveness in global markets

A key part of our commitment to the state’s defence industry is the vital strategic guidance and advocacy provided by the Government-appointed Defence Council Victoria. The Council plays an important role advising on defence industry issues and is a great asset for both the Government and industry for identifying and capitalising on opportunities for defence businesses.

The Victorian Government, through the Department of Economic Development, Jobs, Transport and Resources (DEDJTR), will continue to work closely with the Commonwealth Department of Defence and the defence industry to identify and support strategic industry capability requirements, including domestic and international maritime projects.
Victorian Submarine Industry Capabilities

Victoria’s industry made a highly successful and important contribution to the supply chain involved in the construction of the Collins Class submarines and this continues today as local industry supports Collins sustainment.

Victoria’s industrial success as part of the national submarine industry supply chain is based on the capabilities and strength of the many small to medium enterprises that continue to deliver high quality products and services for Defence. These companies have earned their place as trusted supply chain partners. They are well positioned to support future opportunities for the construction and sustainment of submarines to meet the needs of the Royal Australian Navy.

The capabilities and credentials of companies that have the potential to form a highly respected and competent submarine supply chain in Victoria are identified in this Directory against the following broad capability areas:

- Battery Technologies
- Communications Systems
- Electrical Systems
- Fluid Systems
- Heating, Ventilation & Air Conditioning Systems
- Propulsion Systems
- Design & Engineering
- Metal Fabrication
- Modelling & Simulation
- Outfitting & Raw Material
- Professional Services
- Research & Development
- Safety Systems
- Signature Management
- Through Life Support
- Tooling
- Training Services
HMAS Manoora’s SK50 Sea King helicopter flies over Collins Class submarines, HMAS Waller (foreground) and HMAS Collins.
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ABE INDUSTRIES ENGINEERING
www.ableind.com.au
Brian Lawry
Business Development Manager
Able Industries Engineering Pty Ltd
5 Sutton St, South Kingsville VIC 3015
Tel:  +61 3 9391 1522
Email: blawry@ableind.com.au

**CAPABILITIES**
- Project Management, Design and FEA Analysis
- CNC Punching, Laser Cutting
- 6 Axis Robotic / Specialist Welding/Precision Spot Welding (Mil Spec)
- Specialised Precision Fabrication, Assembly and Integration
- 2D/3D CAD/CAM Facilities

**DISCRIMINATORS**
- Over 35 years proven defence capability
- Expert Project Management team with masters level capability
- System Engineering Capabilities
- Certified welders / specialist welding

**KEY PARTNERS**
- Kewer Engineering (CNC Machining)

**QUALITY APPROVALS & AWARDS**
- Defence Recognised Supplier
- ISO9001 Certified by SAI Global

**SUBMARINE CAPABILITY AREAS**

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<td>Metal Fabrication</td>
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ACCURATE PROFILE
www.accurateprofile.com.au
Michael Rodriguez
Business Development Manager
Accurate Profile Roll Forming Pty Ltd
5-12 Summer Lane, Ringwood VIC 3134
Tel:  +61 3 9879 1900
Email: michael@accurateprofile.com.au

**CAPABILITIES**
- Metal Tube Bending
- Robotic Welding
- Metal Fabrication
- Metal Roll Forming

**DISCRIMINATORS**
- TS16949 (Incorporating ISO 9001)
- Ts14001 Environment
- GM Supplier Quality Excellence Award 2013 & 2014

**KEY CUSTOMERS**
- General Motors Holden
- Toyota
- Ford Motor Company
- Volgren Bus Manufacturers

**KEY PARTNERS**
- BlueScope Steel
- Orica Steel
- Fagersta Steels

**QUALITY APPROVALS & AWARDS**

**SUBMARINE CAPABILITY AREAS**

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<thead>
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**Actco-Pickering Metal Industries**

**www.apmi.com.au**

Andrew Crank  
Director  
Actco-Pickering Metal Industries Pty. Ltd.  
28-30 Quality Drive, Dandenong VIC 3175  
Tel: +61 3 8791 7555  
Email: andrewcrank@apmi.com.au

### CAPABILITIES
- High pressure pipework in stainless & mild steel  
- 3D pipework laser cutting  
- Machining of pipework flanges  
- General sheetmetal fabrication  
- General milling and turning

### DISCRIMINATORS
- Proven track record of supply of complex components across many industrial sectors  
- Over 20 years of experience in supply to the defence industry. Highly experienced welding team qualified to Australian and European standards  
- Successful formation of supply clusters to Tier one companies  
- Project management to extremely tight time lines of high

### KEY PARTNERS
- IDES (Varley)  
- CSA Vertikote  
- Bluescope  
- Bulk Transport Australia

### KEY CUSTOMERS
- IDES (Varley)  
- Cablax  
- Bombardier  
- Alstom

### QUALITY APPROVALS & AWARDS
- ISO 9001-2008  
- Apprentice of the year - Chisholm 2014  
- Procedural Welding to AS 1554 & ISO 15701  
- Regional Business Awards Nomination

---

**Advanced Composite Structures Australia**

**www.acs-aus.com**

Andre Duarte  
Business Development Manager  
Advanced Composite Structures Australia Pty Ltd  
1/320 Lorimer Street, Port Melbourne VIC 3207  
Tel: +61 3 9676 4951  
Email: a.duarte@acs-aus.com

### CAPABILITIES
- Lightweight Composites Design, Analysis and Optimisation  
- Crashworthiness and Impact Simulation  
- Novel Composite Materials and Manufacturing Technology Development  
- Fire protection technology and simulation  
- Testing and Certification

### DISCRIMINATORS
- Expert knowledge in the design, manufacture and maintenance of composite materials  
- More than 20 years of experience in defence related composites technology development and implementation  
- Patented materials and manufacturing technologies available for commercialisation  
- An interdisciplinary, integrated and flexible design and manufacturing team

### KEY PARTNERS
- aadi Defence  
- CSIRO Manufacturing Flagship  
- Bremder Engineering  
- Pacific EBI

### KEY CUSTOMERS
- Department of Defence  
- EADS / Airbus Group  
- Thales  
- Cassidian

### QUALITY APPROVALS & AWARDS
- ISO 9001  
- JEC Asia Innovation Award Winner 2015  
- JEC Paris Innovation Award Winner 2014  
- CRC Association Star Award 2013
ADVANCED VTOL TECHNOLOGIES PTY LTD
www.avtolt.com
David Howe
Managing Director
Advanced VTOL Technologies Pty Ltd
28 Burnbank St, Lake Wendouree VIC 3350
Tel:  +61 (0)408 277 649
Email: davidhowe@avtolt.com

CAPABILITIES
• Simulation - Helicopter-Ship Analysis
• Simulation - Helicopter Slung Loads Simulation Analysis
• Simulation - Fixed Wing Performance and Maneuver Analysis
• Computational Fluid Dynamics
• Software Engineering
• Ship Motion Simulation and Experimental Analysis
• Recruitment Services Since 1998
• Expertise in Verification and Validation, Experimental Analysis, Requirements Development and Test Planning
• All Staff have Security Clearances

DISCRIMINATORS
• Proven High Fidelity Aerospace Simulation and Engineering Analysis Capabilities
• Track Record of Supply Since 1998 to ADF and New Zealand Navy
• Multi Disciplinary Team of Aerospace, Mechanical, Software, Electrical and Human Factors

QUALITY APPROVALS & AWARDS
• Defence Approved Supplier

KEY CUSTOMERS
• ADF Navy, Army & Airforce, GASG, DGTA
• Defence Science and Technology Group
• New Zealand Navy

SUBMARINE CAPABILITY AREAS

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AEROSPACE MATERIALS PTY LTD
aerospacematerials.com.au
Derek Chenh
General Manager
Aerospace Materials Pty Ltd
2/6 Ovata Drive, Tullamarine VIC 3043
Tel:  +61 3 9338 6995
Email: derek@aerospacematerials.com.au

CAPABILITIES
• Hysol Metal to Metal Structural Adhesives
• Composite Resins, Fillers and Potting Compounds
• PR & PS Fuel Tank and General Sealants
• Alodine and Anti-Corrosion Treatments
• Aircraft Grade Aluminium & Titanium
• Laminated Shims
• Ball, Roller and Rod End Bearings
• All certified and Traceable

DISCRIMINATORS
• ITARS & EAR Trained and Experienced Staff
• Metals, Adhesives, Sealants and Surface Treatments Stocked in Melbourne
• Weekly Consolidated Dangerous Goods Air Freight Shipments from Europe and USA

KEY CUSTOMERS
• Henkel GMBH Adhesives
• RTI Corporation- Titanium
• AMI Metals- Aluminium
• Wencor Corp- Bearings

QUALITY APPROVALS & AWARDS
• AS 9120 RevA (Certified by LRQA)
• ISO 9001:2008 (Certified by LRQA)
• IAGG "OASIS" Registered
• Registered under UKAS scheme

KEY PARTNERS
• Quick Step- JSF Project
• Marand Engineering- JSF Project
• ASC- Air Warfare Destroyer Project
• BAE- Defense through life support projects

QUALITY APPROVALS & AWARDS
• Henkel GMBH Adhesives
• RTI Corporation- Titanium
• AMI Metals- Aluminium
• Wencor Corp- Bearings

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• IAGG "OASIS" Registered
• Registered under UKAS scheme

AEROSPACE MATERIALS PTY LTD
aerospacematerials.com.au
Derek Chenh
General Manager
Aerospace Materials Pty Ltd
2/6 Ovata Drive, Tullamarine VIC 3043
Tel:  +61 3 9338 6995
Email: derek@aerospacematerials.com.au

CAPABILITIES
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• Wencor Corp- Bearings

QUALITY APPROVALS & AWARDS
• AS 9120 RevA (Certified by LRQA)
• ISO 9001:2008 (Certified by LRQA)
• IAGG "OASIS" Registered
• Registered under UKAS scheme

KEY PARTNERS
• Quick Step- JSF Project
• Marand Engineering- JSF Project
• ASC- Air Warfare Destroyer Project
• BAE- Defense through life support projects

QUALITY APPROVALS & AWARDS
• AS 9120 RevA (Certified by LRQA)
• ISO 9001:2008 (Certified by LRQA)
• IAGG "OASIS" Registered
• Registered under UKAS scheme
**CAPABILITIES**

- AOS is a world-leader in autonomous and semi-autonomous systems development
- TacSim — Tactical Simulation for Undersea Warfare, developed by AOS with DSTG’s JOAD and NPS Monterey
- C-BDI™ — 4th generation BDI model in C++ for safety-critical applications

**DISCRIMINATORS**

- TacSim simulator used by DSTG to support the SEA1000 Program
- Our products have proven track records in defence, simulation & training, and heavy industry
- AOS’ intelligent agent software is the 1st product series worldwide based on the BDI model of human reasoning

**KEY CUSTOMERS**

- Australian Department of Defence
- RMIT & Melbourne universities
- Insitu Pacific Limited
- Northrop Grumman

**KEY PARTNERS**

- Australian Department of Defence
- SOCODM
- Insitu Pacific Limited
- Lockheed Martin Aero

---

**AGENT ORIENTED SOFTWARE PTY LTD (AOS)**

www.aosgrp.com

Dr Andrew Lucas
Managing Director
Agent Oriented Software Pty Ltd
PO Box 639, Carlton South VIC 3053
Tel: +61 3 9349 5055
Email: Andrew.Lucas@aosgrp.com

---

**ALBINS PERFORMANCE TRANSMISSIONS**

www.albins.com.au

Stephen Macdonald
CEO
Albins Performance Transmissions Pty Ltd
24 Wiltshire Lane, Delacombe VIC 3356
Tel: +61 3 5335 8022
Email: stevem@albins.com.au

**CAPABILITIES**

- Design, manufacture and sustainment capability. Cradle to grave capability of sub systems
- Systems engineering
- FEA, Engineering and CAD capabilities
- Gear and power train Design and Engineering

**DISCRIMINATORS**

- We have the capability to take power train concept and turn it into reality, through every stage.
- By producing a unique solution we can assist the customer to produce a product with superior capability
- We are able to assist with the production of low volume niche components and assemblies

**KEY CUSTOMERS**

- Ace Metal Treatment Service (Heat Treatment)
- Interloy (Metal suppliers)
- Timken (Bearings)
- Hasco Foundry (castings)

---

**QUALITY APPROVALS & AWARDS**

- ISO 9001:2008
- Victorian Manufacturing Hall of Fame
ALLIED TECHNOLOGY INTERNATIONAL PTY LTD
www.alliedtechint.com.au
Mark Lingeman
Director Business Development.
Allied Technology International Pty Ltd
4 Netherlee Street, Glen Iris VIC 3146
Tel: +61 3 9509 1422
Email: info@alliedtechint.com.au

CAPABILITIES
- Main Thrust “Michell” Propulsion Bearing
- “Michell” Resonance Changer Equipment
- “Michell” Stern Tube Bearings
- “Vitavox” above deck loudspeakers
- “Vitavox” NC microphones

DISCRIMINATORS
- “Michell Bearings” are installed in 90% of all RAN warships
- “Michell Bearings” & R changers are fitted and trouble free to all Collins Class subs
- “Michell Bearings” are fitted to FFG, Collins, Anzac, HMAS Supply, Choules, Tobruk etc
- “vita vox” comms equipst is installed on FFG, Anzac, Collins Class, RAN.

KEY PLAYERS
- Michell Bearings UK, Typhoon International UK
- JERED Par Systems licl USA, First Spear USA
- Thermotechnix UK, Vitavox UK

KEY CUSTOMERS
- ASC, BAE Systems, SAS, DF, AFP, RAN, JASCOCT, Allied Tech Defence Identifier ZOA 86

QUALITY APPROVALS & AWARDS
- Partners and Principals accredited to ISO9001
- Recognised Defence Supplier in 2003.

AME SYSTEMS (VIC) PTY LTD
www.amesystems.com.au
Adam Burger
Sales Manager
AME Systems (VIC) Pty Ltd
18 Gordon St, Ararat VIC 3377
Tel: +61 3 5352 9000
Email: adamb@amesystems.com.au

CAPABILITIES
- Design and manufacture of quality electrical wiring harness
- Assembly of dashboards and electrical instruction boxes
- Supply harnesses from simple circuits to complete vehicle electrical systems
- Manufacture to IPCWHMA-620 and military specification
- Supply to high and low volume requirements
- Custom made battery cables
- CAD 3D drawing and design

DISCRIMINATORS
- 30+ years proven experience in wire harness manufacture
- Experience in designing complete vehicle electrical systems
- Rapid prototype capability
- Lean manufacturing

KEY CUSTOMERS
- Thales, Supacat, CASG
- Caterpillar, Alstom
- Kenworth Trucks
- Mahindra Aerospace

QUALITY APPROVALS & AWARDS
- ISO9001:2008 certified
- Manufacturing Hall of Fame Inductee

SUBMARINE CAPABILITY AREAS

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</table>
**AMPHENOL AUSTRALIA PTY LTD**

**www.amphenol.com.au**

**MARK EIME**

ACCOUNT MANAGER

Amphenol Australia Pty Ltd

22 Industry Blvd, Carrum Downs VIC 3201

Tel: +61 3 8796 8817

Email: markeime@amphenol.com.au

---

**AMOC CONSULTING**

amog.consulting

Tim Lee

Associate Director

AMOG Pty Ltd.

19 Business Park Drive, Notting Hill VIC 3168

Tel: +61 3 9542 3700

Email: tim.lee@amog.consulting

---

**CAPABILITIES**

- Safety Engineering and Safety Case Development
- Advanced Hydrodynamics including submarine manoeuvring
- Fire and Blast Modelling and Fire Engineering
- Computational Fluid Dynamics

**DISCRIMINATORS**

- Extensive prior submarine experience from over 10 years of working on COLLINS Class Submarines
- Best in class safety engineering skills (previously key technical advisor and principal contractor on COLLINS Class)
- Advanced hydrodynamics capabilities, including hydro-structural interaction
- Global industry leader in analysis of Vortex Induced Vibration (VIV) - licensed owner of software and patents for suppression devices

**KEY CUSTOMERS**

- ASC
- DST Group
- Thales
- Raytheon

**KEY PARTNERS**

- Monash University
- AADI Defence Pty Ltd
- University of Newcastle (Prof R. Melchers)

**QUALITY APPROVALS & AWARDS**

- ISO 9001:2008
- ISO 14001:2004
- OHSAS 18001:2007
- Winner - Engineers Australia Award of Excellence 1995 and 2011

---

**Amphenol**

**CAPABILITIES**

- The world leader in the design manufacture and supply of high performance interconnect systems for military market
- Connectors for power, signal, data, fibre optic & coaxial applications.

**DISCRIMINATORS**

- A supplier to all major defence programs globally for land, sea & air.
- Strong cable assembly capability with some in low cost countries.

**KEY CUSTOMERS**

- BAE SYSTEMS
- THALES
- DEPT DEFENCE
- BOEING

**QUALITY APPROVALS & AWARDS**

- ISO 9001:2008

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**SUBMARINE CAPABILITY AREAS**

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<td>Electrical Systems</td>
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</table>
AMS IMAGING
www.ams-imaging.com.au
David Western
Manager
Kenmore Quest Pty Ltd
230 Bank St, South Melbourne VIC 3205
Tel: +61 3 9690 6800
Email: davidwv@ams-imaging.com.au

**CAPABILITIES**
- Document Management Software that is VERS Compliant and can be housed, hosted or hybrid
- Capture of Large format drawings in colour or black and white
- Secure Cloud Hosting of documents and electronic files.
- Capture of Microfilm, Aperture Cards, Microfiche

**DISCRIMINATORS**
- Established in 1971 and based in South Melbourne
- ISO 9001 certified
- Necessary clearances for handling items with issues of sensitivity, privacy and security
- On-site fire rated walk-in vault and additional safe storage for holding documents

**KEY PARTNERS**
- ELO Digital Australia
- Toshiba Australia
- Kodak Alaris

**QUALITY APPROVALS & AWARDS**
- ISO 9001:2008 License GEC26796

APPLIED FASTENERS AND TOOLING
www.appliedfastenersandtooling.com
Colin Campbell
National Manager
Applied Fasteners and Tooling Pty Ltd
2607/100 Harbour Esplanade, Docklands VIC 3008
Tel: +61 3 9939 8979
Email: colin@appliedfastenersandtooling.com

**CAPABILITIES**
- Specialised fastening systems and assembly tooling
- Structural bonded fasteners and tooling
- Threaded fasteners/inserts
- Blind fasteners and tooling
- Specialised cutting tools
- Temporary fasteners
- Quick release pins and lanyards
- Technical support and training

**DISCRIMINATORS**
- Defence programs are our core business
- Our customers see us as a trusted source of information and support not typically offered by local distributors
- Through extensive consultation, customers have access to our vast assembly application experience
- We understand the relationship between design, procurement, production and maintenance/repair
- We offer technical support through the product life cycle
- Certified in product training
- We offer multiple solutions to maximise design options in addition to increasing assembly efficiency and safety

**KEY CUSTOMERS**
- Boeing
- Marand
- Supacat
- Trakka

**QUALITY APPROVALS & AWARDS**
- AS9129A
- LMA-PK084
- Department of Defence Cage Code Z0TF6
- Factory approval for key USA manufacturers
ATLAS TOOLING PTY LTD
www.atlastooling.com.au
Gopi Kalapara
Managing Director
Atlas Tooling Pty Ltd
9 Capital Court, Braeside VIC 3195
Tel: +61 3 9587 2222
Email: sales@atlastooling.com.au

CAPABILITIES
• Design, development and feasibility analysis for injection moulds, press tools, jigs and fixtures, extrusion dies
• Large capacity machining with job sizes up to 3.2m x 2.3m x 1m high
• Fabrication, custom machining and contract manufacturing
• CNC Lathes
• Wire cutting and EDM services

DISCRIMINATORS
• Diverse range of customers and skilled team has given Atlas Tooling its reputation in Australian manufacturing
• Complete project management service from design, manufacturing and trialling of product
• Maximize productivity with most up to date CAD packages including unigraphics, Mastercam, Surfcam
• Contract Project management services delivering high quality moulds, dies, jigs and fixtures

KEY CUSTOMERS
• Iscar Australia
• Schmolz Bickenbach
• Bohlar Uddeholm
• Siemens PLM

QUALITY APPROVALS & AWARDS
• In process for ISO 9001

ATSA DEFENCE SERVICES
www.atsa.com.au
Jenny Taylor
General Manager
ATSA Defence Services Pty Ltd
9 Macquarie Place, Boronia VIC 3155
Tel: +61 (0)422 310 998
Email: jenny.taylor@atsa.com.au

CAPABILITIES
• Short run, complex electro-mechanical complex systems
• Specialist cable supply and termination and system component manufacture, including fibre optic
• Defence grade painting facility
• OEM Support partner for electronic, electrical and electro-mechanical systems

DISCRIMINATORS
• Development of support programs Òfrom scratchÓ to meet customer requirements for the life of the equipment
• Ruggedised packaging of electronic systems for harsh environments

KEY PARTNERS
• Saab Dynamics - Support Agent MDS
• DIF - Support Agent Alarm & Broadcast AWD
• Saab Seaeye - Supply and Support

QUALITY APPROVALS & AWARDS
• AS/NZS ISO 9001:2008 certified by SAI Global
• Defence Recognised Supplier (Strategic Services)
• Defence Industry Security Program (SECRET)
• Supplier Continuous Improvement Program
ATTAR
www.attar.com.au
Angelos Spathis
Business Development Manager
Engineering Materials Evaluation Pty Ltd
Unit 1, 64 Bridge Road, Keysborough VIC 3173
Tel: +61 3 9574 6144
Email: AngelosSpathis@attar.com.au

CAPABILITIES
• Experienced engineers providing independent and expert advice in Materials evaluation and Mechanical testing
• Forensic failure analysis (includes determining root cause, life cycle and compliance assessment)
• Specialty testing in Acoustic Emission Monitoring of vessels and structures

DISCRIMINATORS
• ATTAR is committed to the highest standard of service delivery and customer satisfaction
• Australian owned with over 30 years experience
• Advance non-destructive testing techniques
• Consulting engineers specialising in materials evaluation and mechanical testing
• Registered Training Organisation (RTO) and Authorised Qualifying Body (AQB) for Non-Destructive Testing

KEY CUSTOMERS
• Infracorr Consulting Pty Ltd

QUALITY APPROVALS & AWARDS
• NATA accredited to ISO 17025
• Registered Training Organisation (RTO)
• Authorised Qualifying Body (AQB) ANST & BINOT

AUSTRALIAN GENERAL ENGINEERING
www.austgen.com.au
Con Litsios
Managing Director
Rivera Pty Ltd
62-66 Bond Street West, Mordialloc VIC 3195
Tel: +61 3 9540 4900
Email: sales@austgen.com.au

CAPABILITIES
• Sheet and metal fabrication
• Design, manufacture and life support of metal fabricated components, sub assemblies and products
• Experienced in fabricating armour plate products
• Complete CNC Sheet Metal and General Fabrication Facilities
• Experience in fabricating in all types of ferrous and non ferrous metals

DISCRIMINATORS
• Manufacturers and Suppliers to the Maritime industry
• Manufacturers and Suppliers to the Australian Defence Force for over 10 years
• Manufacturers and Suppliers to the Automotive industry for over 10 years
• Manufacturers and Suppliers to the Transport industry for over 10 years

KEY CUSTOMERS
• ASC
• Babcock International Group
• Large Customer base throughout Australasia

QUALITY APPROVALS & AWARDS
• ASC
• Babcock International Group
• Large Customer base throughout Australasia

• ISO 9001 2008

BLUE SCREEDS
AUSTRALIAN PRECISION TECHNOLOGIES PTY LTD
www.aptengineering.com
Adam Sutton
Business Development
Australian Precision Technologies Pty Ltd
26 -28 Intrepid Street, Berwick VIC 3806
Tel: +61 3 9768 9400
Email: adam.s@aptengineering.com

CAPABILITIES
- CNC turning and machining
- Multi-tasking 5 axis machining
- Assemblies & instruments supply programs
- Quality controlled production
- Digital communication/Project management
- Part marking and identification
- Low to high production volumes including prototypes

DISCRIMINATORS
- Total management of manufacturing solutions
- Full turnkey solutions
- Full traceability and quality assurance
- Highly qualified workforce
- Current machining technology implemented
- Committed on time delivery
- Lean manufacturing systems
- Quick turnaround lead times

KEY CUSTOMERS
- Defence & Aerospace
- Mining, Oil & gas
- Rail
- Medical

KEY PARTNERS
- Okuma Australia & DMG Mori Seiki
- Iscar Australia
- ThyssenKrupp
- APMGroup

QUALITY APPROVALS & AWARDS
- IAS/NZS ISO9001:2008 & BSI
- AS9190 in progress

AVAQUIP PTY LTD
www.aviaquip.com.au
Rob Crossland
General Manager
Aviaquip Pty Ltd
11 Peninsula Blvd, Seaford VIC 3198
Tel: +61 3 9585 1211
Email: sales@aviaquip.com.au

CAPABILITIES
- Stocking Distributor - Carr-Lane Mfg Inc - Ball Lock Pins, Bushes, Hold-down Clamps, Inserts, Jig Fixtures.
- Stocking Distributor - The Lee Company - Precision Micro Hydraulics.
- Agent for Soucy Defense - Rubber Track Technology.
- Stocking Distributor - Carr-Lane Mfg Inc - Ball Lock Pins, Bushes, Hold-down Clamps, Inserts, Jig Fixtures.
- Stocking Distributor - The Lee Company - Precision Micro Hydraulics.
- Agent for Soucy Defense - Rubber Track Technology.

DISCRIMINATORS
- Established in 1985
- Full Stock Traceability
- Qualified Supplier to most Local Manufacturers
- Fully Australian Owned

KEY CUSTOMERS
- Carr-Lane Mfg Co
- The Lee Company Inc
- Soucy Defense

KEY PARTNERS
- Okuma Australia & DMG Mori Seiki
- Iscar Australia
- ThyssenKrupp
- APMGroup

QUALITY APPROVALS & AWARDS
- ISO9001:2008 No C29989
- Eco Warranty 2010 No C29990
- CASA Approval No 1297
- Nato Cage Code ZY210

SUBMARINE CAPABILITY AREAS
- Communication Systems
- Electrical Systems
- Design & Engineering
- Metal Fabrication
- Research & Development
- Through Life Support
- Tooling

SUBMARINE CAPABILITY AREAS
- Fluid Systems
- Tooling
A.W. BELL PTY LTD  
www.awbell.com.au  
Jason Barkla  
Business Development Manager  
A.W.Bell Pty Ltd  
145 Abbotts Road, Dandenong South VIC 3175  
Tel: +61 3 8773 7544  
Email: jason@awbell.com.au

<table>
<thead>
<tr>
<th>CAPABILITIES</th>
<th>DISCRIMINATORS</th>
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</thead>
</table>
| • Manufacture of complex metal components and assemblies with high mechanical properties for Defence applications. | • Steel fabrication using in-house production machining, advanced casting processes for high volume production runs.
| • Investment and sand casting. | • Strong experience in duplex and general stainless steels.
| • Rapid prototyping into metal. | • Experience in duplex and general stainless steels.
| • Rapid prototyping into metal. | • Experience in duplex and general stainless steels.
| • Production machining and assembly. | • Experience in duplex and general stainless steels.
| • Assembly and certification. | • Experience in duplex and general stainless steels.

KEY PARTNERS
• CAGG Global Supply Chain programme
• CAGG Joint Strike Fighter Division
• Single Business Service
• AIDN

QUALITY APPROVALS & AWARDS
• AS9100C, SAI Global
• ISO9001:2008, SAI Global
• ISO14001:2004, SAI Global
• 2013 Vic. Manufacturer of the year - Medium

BAE SYSTEMS  
www.baesystems.com/australia  
Marcos Alfonso  
Project Director  
BAE Systems Australia Defence Pty Limited  
Nelson House, Nelson Place, Williamstown VIC 3016  
Tel: +61 3 9334 8217  
Email: marcos.alfonso@baesystems.com

<table>
<thead>
<tr>
<th>CAPABILITIES</th>
<th>DISCRIMINATORS</th>
</tr>
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</table>
| • Turnkey fabrication and waterfront load out of high quality Maritime Defence modules. | • 150m long slipway capable of launching complete vessels or sections.
| • Complete detail and production engineering of modules to suit our facility. | • Structural, mechanical and electrical engineering services for the defence maritime sector.
| • Fabrication of high quality marine pipework up to 200m per week capacity all material types. | • Integrated Logistics, through life and asset management services for maritime defence market.
| • Waterfront barge ramp capable of launching complete vessels or sections. | • 20,000m2 undercover fabrication facilities with up to 17m under hook and wide doorways.

KEY PARTNERS
• Saab Systems major partner defence maritime
• Parent Company BAE Systems Plc

QUALITY APPROVALS & AWARDS
• ISO 9001 Design, manufacture, loadout other
• Safety AS 4801
• Environment ISO 14001

SUBMARINE CAPABILITY AREAS
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<th>Communication Systems</th>
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**BALMORAL HILL PTY LTD**

balmoralhill.com.au

Raphael M. Dua  
CEO & Owner  
Balmoral Hill Pty Ltd  
11 Henry St, Traralgon VIC 3844  
Tel: +61 (0)418 531 111  
Email: raf@balmoralhill.com.au

---

**BAUER ENGINEERING**

www.bauereng.com.au

Ken May  
Managing Director  
Bauer Engineering Pty Ltd  
12 Rings Road, Moorabbin VIC 3189  
Tel: +61 3 9555 7237  
Email: sales@bauereng.com.au

---

**CAPABILITIES**

- Planning and Scheduling Consulting  
- Project Governance and Controls  
- Earned Value Performance Management  
- Quality Management Implementation and Control  
- Forensic Delay analysis

**DISCRIMINATORS**

- 50 yrs Defence Knowledge and Experience Ð Lead Planner/ Scheduler for Collins Class Construction  
- Lead Planner & Scheduler on ANZAC Ship Project  
- Specialist Project Management Software User  
- Member of ISO PM Standards

**KEY CUSTOMERS**

- Boeing Australia Limited  
- Stanlite Communications for Collins and ANZAC  
- Celsius Tech  
- RAAF

**KEY PARTNERS**

- Micro Planning International Pty Ltd  
- GBA Projects Pty Ltd  
- Vidotto Group  
- LBMS Pty Ltd

---

**QUALITY APPROVALS & AWARDS**

- Australian Industry and Defense Network  
- Institute of Marine and Power Engineers  
- MCAM Monash Centre for Additive Manufacturing  
- Defence Materials Technology Centre

**KEY CUSTOMERS**

- Australian Defence Force  
- Australian Submarine Corporation  
- Petrochemical Industry  
- Mining Industry

**SUBMARINE CAPABILITY AREAS**

|-----------------|--------|----------------------|-------------------|--------------------------|-----------------------|------------------------|----------------|----------------------|------------------------|---------|
CAPABILITIES
- Toward array handling systems & through life support
- Defence integrated logistics support
- Marine Aviation Certification and maintenance, R&O on/off site.
- Engineering Analysis, concept & development
- Electrical Design & Engineering
- Marine aviation refueling systems and through life support

DISCRIMINATORS
- Beak has provided CoA vast savings through reduced cost of ownership by managing marine aviation systems for ADF
- Beak provide the RAN with rapid response field service teams for UROEs worldwide
- 100% Aust-owned and run Defence Industry company with proven performance
- Experience on multiple platforms and systems within Defence

BEAK ENGINEERING (AUST)
www.beak.net.au
Phillip Shirley
Business Development Manager
Beak Engineering (Aust)
7 Walker St, Braeside VIC 3195
Tel: +61 3 9587 0255
Email: pshirley@beak.net.au

QUALITY APPROVALS & AWARDS
- ISO 9001 (2008)
- DRS

BLACK BOX NETWORK SERVICES
www.blackbox.com.au
Norbert Benko
Sales Manager
Black Box Network Services
15-17 Jellico Drive, Scoresby VIC 3179
Tel: +61 3 9237 8104
Email: sales@blackbox.com.au

CAPABILITIES
- Secure EAL4+ KVM switches
- Extreme condition media converters
- Video cabling and switching
- Industrial cabinets
- Outdoor and indoor wireless solution
- Secure usb extenders
- Video extenders

DISCRIMINATORS
- 30 000+ product range
- Free technical support
- Approved Defense supplier
- EAL2+, 4+ and tempest approved products
- Stable 30+ years history

CAPABILITIES
- Secure EAL4+ KVM switches
- Extreme condition media converters
- Video cabling and switching
- Industrial cabinets
- Outdoor and indoor wireless solution
- Secure usb extenders
- Video extenders

DISCRIMINATORS
- 30 000+ product range
- Free technical support
- Approved Defense supplier
- EAL2+, 4+ and tempest approved products
- Stable 30+ years history

KEY CUSTOMERS
- BAE Systems
- CASG-MCPSO, FFGSP, FFSP, AMSP, NASPO
- NSM
- Thales

SUBMARINE CAPABILITY AREAS
- Communication Systems
- Electrical Systems
- Fluid Systems
- Design & Engineering
- Through Life Support

QUALITY APPROVALS & AWARDS
- ISO 9001: 2008

SUBMARINE CAPABILITY AREAS
- Communication Systems
- Electrical Systems
- Fluid Systems
- Design & Engineering
- Through Life Support

QUALITY APPROVALS & AWARDS
- ISO 9001: 2008
BMT Design & Technology
www.bmtdesigntechnology.com.au

Peter Sanders
Operations Director
BMT Design & Technology Pty Ltd
L5/99 King Street, Melbourne VIC 3000
Tel:  +61 3 8620 6180
Email: info@bmtdt.com.au

CAPABILITIES

• Naval Architecture: hull form analysis, strength/fatigue assessment, seakeeping analysis & impact/damage stability
• Mechanical Engineering specification, design and analysis including full CFD and FEA
• Systems and safety engineering expertise across the entire development life-cycle from concept to disposal
• Fire engineering and analysis using both qualitative and quantitative risk assessment and management techniques

DISCRIMINATORS

• Truly independent engineering consultancy based in Australia with global reach back to the entire BMT Group
• Trusted long term provider of outcome focused high value engineering and support services
• Recognised as a leading provider of risk and safety engineering services to the Defence Industry
• Expertise provided by extensive team and individual multi-disciplinary engineering capability.

KEY PARTNERS

• BMT Defence Services Ltd
• BMT WBM Pty Ltd
• BMT RGL Ltd
• BMT ISSI Ltd

SUBMARINE CAPABILITY AREAS

Design & Engineering
Modeling & Simulation
Professional Services
Research & Development
Safety Systems
Through Life Support
Training Services

QUALITY APPROVALS & AWARDS

• AS/NZS ISO9001: accredited
• DSIP accredited
• Panel Member - CASSS, DSTG, RPOE & SEA 1000

BULLEX Australia
www.bullex.com.au

Chris Chester
General Manager
Digital Safety Pty Ltd
11 Ryeland Court, North Geelong VIC 3215
Tel:  +61 (0)400 822 271
Email: cchester@bullex.com.au

CAPABILITIES

• Supply and design of fire and emergency response (core product and custom build) training infrastructure
• Digital hose line and extinguisher training systems allowing ‘on board’ emergency simulation and response training
• Experienced in-house, training outcome focused, engineering and fabrication capability

DISCRIMINATORS

• Proven worldwide capability to deliver projects on time and under budget.
• Patented digital technology allows responders to undergo realistic practical training on board, anywhere, anytime.
• Proven defence force and emergency service supplier across many countries.

KEY PARTNERS

• Lion Training Resource Group - Ohio HQ
• BulEx Digital Safety - Albany, New York
• Haagen Fire Training Products - The Netherlands
• A.F.A.C.

KEY CUSTOMERS

• US Department of Defense - all branches
• Royal Navy
• Emergency Management Victoria
• Rural Fire Service NSW

QUALITY APPROVALS & AWARDS

• ISO 9001:2008 - Cert via Lloyd’s (Haagen)
• NEN 3324 and NEN-EN60204 (Haagen)
• NFPA 1402 - Fire Service Training Centres
• GSA approved supplier for US Dept of Def.
## CABLEX PTY LTD

cablex.com.au

Heidi Krebs  
Director of Business Development  
Cablex Pty Ltd  
232-262 East Boundary, East Bentleigh VIC 3165  
Tel: +61 3 9575 3088  
Email: heidi.krebs@cablex.com.au

### CAPABILITIES

- Design assistance: parts selection, installation, design, re-design for production  
- Manufacturing: custom cables & harness assemblies, 3D Modelling & 3D Design, Soldering to IPC-J-STD  
- Auto test solution for Transport, Telecommunications, Aerospace and Defence  
- Installation: onsite & offshore, cable routing, termination, upgrades and retrofits

### DISCRIMINATORS

- International quality accreditations & ITAR experience  
- Strong project management and quality control capability  
- Flexible in manufacturing both complex & standard harnesses

### KEY CUSTOMERS

- Airbus Helicopters  
- Northrop Grumman  
- Alstom  
- Airbus Military

### QUALITY APPROVALS & AWARDS

- ISO 9001:2008  
- AS9100C - Aerospace Standard  
- Defence CAGE Code: Z5453

---

## CAE INTEGRATED ENTERPRISE SOLUTIONS

www.cae.com

Robert Carpenter  
Manager, Business Development  
CAE Integrated Enterprise Solutions Australia  
Suite 6, 260 Auburn Rd, Hawthorn VIC 3122  
Tel: +61 (0)400 126 343  
Email: rob.carpenter@cae.com.au

### CAPABILITIES

- Training Design and Development  
- Simulation development  
- Software engineering  
- Naval simulation products  
- Human factors  
- Training System Integration

### DISCRIMINATORS

- Proven record in delivering training solutions  
- Defence security program  
- Security clearances  
- Understand and deliver ITAR solutions  
- Simulation support to analysis

### KEY CUSTOMERS

- CAE Inc  
- Department of Defence

### QUALITY APPROVALS & AWARDS

- ISO 9001

### SUBMARINE CAPABILITY AREAS

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CALBAH INDUSTRIES
www.calgab.com
Vic Nikolsky
General Manager
Calbah Industries
7-29 Arkwright Drive, Dandenong Sth VIC 3175
Tel: +61 3 9792 3111
Email: quotes@calbah.com

CAPABILITIES
- Innovative Design & clever Engineering solutions to difficult issues
- 3D modeling and design optimization, FEA, structural computations and verifications
- Specialized Fabrication in carbon steel, stainless steel and aluminium, weld procedures and qualified welders
- Certified to ISO 9001 - Quality, BS OHSAS 18001 - Safety & ISO 14001 - Environment
- Plasma cutting, rolling, Brake press folding, welding TIG, MIG, SAW, Blast cleaning and painting to specification

DISCRIMINATORS
- Innovative design team - we develop effective solutions that work
- Senior Management have Australian security clearances
- Successfully completed high demand complex government projects
- New Factory - 6500m2 floor area, 40t lift capacity cranes
- High end Fabrication in steel, stainless steel and aluminium

KEY PARTNERS
- Calbah Industries - Australian Owned
- Using Australian Steel

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Metal Fabrication
- Modeling & Simulation
- Qualification & Raw Material

QUALITY APPROVALS & AWARDS
- ISO 9001:2008 Quality systems
- BS OHSAS 18001 Safety systems
- ISO 14001 Environment systems
- Building Innovative Design Award -short listed

CGB PRECISION PRODUCTS PTY LTD
www.cgb.com.au
Michael Lingard
National Business Development Manager
CGB Precision Products Pty Ltd
9/32 Silkwood Rise, Carrum Downs VIC 3201
Tel: +61 3 9775 1125
Email: mslingard@cgb.com.au

CAPABILITIES
- High Performance & Precision Components for manufacture maintenance & repair of land, sea, air & space vehicles.
- Supplier of high performance & high precision mechanical & electrical components to Tier 1 Companies
- COTS & Customised Products
- Aerospace seals & plastics

DISCRIMINATORS
- Representative for many of the world’s leading manufacturers in our field
- Superior product quality, knowledge and service
- Tailored solutions with direct OEM technical & engineering support

KEY CUSTOMERS
- Kamatics
- Barden
- Kaydon
- Greene Tweed

SUBMARINE CAPABILITY AREAS
- Internal/External Capabilities

QUALITY APPROVALS & AWARDS
- ISO 9001:2008
CGGSS AUSTRALIA
www.cggss.com/cgg-australia/
Frank Papa
Business Development
Spacelink Consulting (Australia) Pty Ltd
PO Box 2187 Brightong North VIC 3186
Tel:  +61 (0)412 470 047
Email: frank.papa@cggss.com

CAPABILITIES
• Gas Storage using solid state cool gas generators. Robust, no maintenance proven space technology.
• Fire suppression systems - powered by cool gas generators (CGG’s).
• Control Systems - CGG powered Emergency Valve Actuators.

DISCRIMINATORS
• CGG’s are a safe solid fuel rocket technology that can produce different types of gas at ambient temperature.
• Patented production of carbon dioxide, nitrogen, oxygen, methane, hydrogen or high yield gas from solids.
• Current space flown technology requiring no maintenance and long storage time beyond 10 years.

KEY PARTNERS
• CGG Safety & Systems
• TKO Defence
• Aerospace Propulsion Products
• European Space Agency

CODARRA ADVANCED SYSTEMS
www.codarra.com.au
Mr Warren Williams
Managing Director
Codarra Advanced Systems Pty Ltd
Level 5, 470 Collins Street, Melbourne VIC 3000
Tel:  +61 3 9614 7449
Email: warren.williams@codarra.com.au

CAPABILITIES
• Multi disciplinary System Engineering, covering mechanical, electronic, electrical and ICT systems
• Systems Engineering including functional and system specification, test concepts and plans, operational concepts
• Project Management.
• Program Management.

DISCRIMINATORS
• Multi disciplinary team capacity
• Over 24 years experience working with Defence material acquisition
• Minimum consultant security clearance of Secret
• Engineers have experience with Project Management to better integrate their activities into a project.
• Understanding of the through life benefits of a Capability not just the technical solution
• Ability to work within an Industry team as well as within Defence
• Expertise with DOORS

KEY CUSTOMERS
• Dept of Defence (Capability Development Group)
• Dept of Defence (CASG)

QUALITY APPROVALS & AWARDS
• ISO9001:2008 (SAI Global)
• Accredited Training Organisation (APMG)

KEY CUSTOMERS
• European Space Agency.
• Dutch Airforce.
• The global CubeSat industry via online store.

SUBMARINE CAPABILITY AREAS

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<td>Safety Systems</td>
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CGGSS AUSTRALIA
www.cggss.com/cgg-australia/
Frank Papa
Business Development
Spacelink Consulting (Australia) Pty Ltd
PO Box 2187 Brightong North VIC 3186
Tel:  +61 (0)412 470 047
Email: frank.papa@cggss.com

CAPABILITIES
• CGG inflatable vests and rafts.
• R&D for client solutions requiring the advantages of CGG’s.

DISCRIMINATORS
• Alternative to compressed gas storage offering a secure, reliable and low total cost of ownership solution.
• Currently being applied to European defense aerospace applications.
• CGG technology delivers Cool Gas at ambient temperature.

KEY PARTNERS
• CGG’s area safe solid fuel rocket technology that can produce different types of gas at ambient temperature.
• Patented production of carbon dioxide, nitrogen, oxygen, methane, hydrogen or high yield gas from solids.
• Current space flown technology requiring no maintenance and long storage time beyond 10 years.

KEY CUSTOMERS
• European Space Agency.
• Dutch Airforce.
• The global CubeSat industry via online store.

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<tr>
<td>Training Services</td>
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CORNELL DESIGN
www.cornelldesign.com.au
Jonathan Bannister
Managing Director - Victoria
Cornell Design Victoria Pty Ltd
Unit 12, 2 Westside Ave, Port Melbourne VIC 3207
Tel: +61 (0)403 860 824
Email: jonathan.bannister@cornelldesign.com.au

CAPABILITIES
- Provide a low risk scalability option for Design and Engineering teams
- 18 Mechanical and Electrical Designers between SA and Victoria
- Rapidly INTEGRATE into our client’s teams
- Work on (or off) our client’s site

DISCRIMINATORS
- All our staff have a Trade Background
- If we design it you can build it
- All our staff are full time employees (no contractors)
- Ensuring we are always available and will complete the job
- Fully insured with Public Liability and Professional Indemnity Insurance
- Fully licensed software
- There when you need us....

KEY CUSTOMERS
- Cornell Design South Australia
- Lester Franks

KEY PARTNERS
- Cornell Design South Australia
- Lester Franks

QUALITY APPROVALS & AWARDS
- Internally managed and audited QMS

SUBMARINE CAPABILITY AREAS

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DARONMONT TECHNOLOGIES
www.daronmont.com.au
Lee Stanley
Business Development Manager
Daronmont Technologies Pty Ltd
Unit 5, 21 Huntingdale Rd, Burwood VIC 3125
Tel: +61 3 9830 6222
Email: marketing@daronmont.com.au

CAPABILITIES
- Communications ESM and Direction Finding Systems
- Calibration capability to support Comms and Radar ESM systems
- Link 11 and 16 Training Systems
- 24/7 Support for Remote Communications and Surveillance Systems
- Communications sub-system integration and support

DISCRIMINATORS
- Multiple platform/domain experience (installation, integration, set to work, support) - Submarines, Surface ships
- Proven R&D/Developmental Engineering Capability
- Successful track record with CASG/ESD/RAAF - Multiple award winner
- ISO 9001 accredited Business System (Quality System)
- AEO accreditation - GTESPO (MCRC Project) B Acquisition and Support
- ASIFCON Acquisition and Support Capability
- Party to multiple TAAs and ITAR ready
- Proven capability to provide long term support to electronic systems

KEY CUSTOMERS
- CASG (ESD), DST Group, ADFTA, CUSTOMS
- Airspeed
- Chemring
- Harris C4i

KEY PARTNERS
- RAN - Submarine SPO, Raytheon, HMAS Watson RNZN - Protector Remediation
- Lockheed Martin Canada - AOPS
- CASG (ESD), DST Group, ADFTA, CUSTOMS

QUALITY APPROVALS & AWARDS
- ISO 9001:2008
- CASG AEO Certification for Acq and Support
- Essington Lewis Trophy Winner - 2008 and 2012
- Defence SA Outstanding SME Award 2012
CAPABILITIES
- Global Integrated Logistics
- Global Freight Forwarding
- Contract Logistics
- Multi Modal Services
- Customs Brokerage
- Warehousing
- Project Logistics
- JPL / 4PL

DISCRIMINATORS
- Global Network
- Customized End to End Supply Chain Management
- Integrated Logistics
- Out of Gauge shipping
- Internal Customs Brokerage
- JPL & 4 PL Solutions
- Charter Vessel Project Dept.

KEY CUSTOMERS
- Northrop Grumman
- BOEING
- Supacat
- U.S. Forces

QUALITY APPROVALS & AWARDS
- ISO9001
- ISO14001
- TAPA
- AS4901 & OH&S18001

SUBMARINE CAPABILITY AREAS
- Professional Services
- Through Life Support

DEFENCE SCIENCE INSTITUTE
www.defencescienceinstitute.com
Craig Butler
Engagement Manager
Defence Science Institute
L4, 204 Lygon St, Carlton VIC 3053
Tel: +61 3 9035 3961
Email: craig.butler@unimelb.edu.au

CAPABILITIES
- Creating research networks for industry, the Defence Science and Technology Group and Victorian Universities
- Aligning research capabilities with the needs of Australia Defence
- Supporting defence industries in providing a one-stop shop to access Victorian universities’ capabilities
- Find an expert and find a capability services
- Identify and place higher degree interns into industry

DISCRIMINATORS
- Access to world class academic institutions and researchers
- Embedded researchers from DST Group and Victorian Universities
- Strong relationship with US Defense Funding Agencies
- Seed funding for appropriate research initiatives
- Free service, no claim to IP created.

KEY CUSTOMERS
- BAE Systems
- Tectonica
- Thales
- Northrop Grumman

KEY PARTNERS
- Defence Science and Technology Group
- Monash University
- The University of Melbourne
- Federation University
- Deakin University
- RMIT University
- Victoria University
- Swinburne University
- La Trobe University
DEK TECHNOLOGIES
www.dektech.com.au
Patrick Kløvekorn
Program Manager
DEK Corporation Pty Ltd
Cnr Riggall St Maldon St, Broadmeadows VIC 3047
Tel: +61 3 9309 1808
Email: patrick.klovekorn@dektech.com.au

CAPABILITIES
- Software and hardware development for telecommunication systems
- Software and hardware development for IoT control and automation systems
- Hardware, FPGA and ASIC development, e.g. for DSP, wireless modems (3G, 4G), Software Defined Radio
- Distributed, high availability, real time, disturbance free systems architectures

DISCRIMINATORS
- Australian supplier with decades of experience in large, complex telecommunications projects
- Our products are operational in network exchanges around the world

KEY CUSTOMERS
- Ericsson, over 10 years as approved supplier
- New South Wales State Government
- Leonardo da Vinci International Airport

QUALITY APPROVALS & AWARDS
- ISO 9001

DMTC
dmtc.com.au
Miles Kenyon
Program Development Manager
Defence Materials Technology Centre Ltd.
Level 2, 24 Wakefield St, Hawthorn VIC 3122
Tel: +61 3 9214 4447
Email: information@dmtc.com.au

CAPABILITIES
- Foster enduring collaborative relationships between industry, research organisations, industry bodies and Defence
- Support a more competitive and productive Australian defence industry
- Create stronger and more integrated defence supply chains

DISCRIMINATORS
- Integrated supply chain approach to technology development to ensure rapid commercial transition of technology
- Involvement of Australian Defence Customer in all technology development projects

KEY CUSTOMERS
- Defence Science and Technology Group
- 8 Australian Universities, CSIRO & ANSTO
- Australian industry supply chain participants
- Capability Acquisition and Sustainment Group

QUALITY APPROVALS & AWARDS
- Safeguarding Australia Eureka Prize
- Continuous Improvement Business Process Award
- National Innovation Award - Land Defence Aust
- Defence Industry Security Program

SUBMARINE CAPABILITY AREAS

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**DRAEGER SAFETY PACIFIC PTY LTD**  
**www.draeger.com.au**  
Christina Ferris  
Segment & Strategy Manager  
Draeger Safety Pacific Pty Ltd  
8 Acacia Place, Notting Hill VIC 3168  
Tel: +61 3 9265 5018  
Email: christian.ferris@draeger.com

**CAPABILITIES**
- SCUBA Diving Equipment
- Gas Detection Equipment
- HP Compressors
- Hyperbaric equipment
- Fire fighting equipment.

**DISCRIMINATORS**
- Draeger Safety supplies, manufactures and services a complete range of products for Government departments,
- Draeger has a proven track record of understanding and meeting expectations having been the designer
- Our product and service offerings are an excellent fit with the profile of the specified requirements.
- We have the capability to provide a genuinely integrated end-to-end service

**SUBMARINE CAPABILITY AREAS**
- Design & Engineering
- Professional Services
- Safety Systems
- Through Life Support

**QUALITY APPROVALS & AWARDS**
- AS/NZS ISO 9001 B 2000
- ISO 14001
- ISO18001
- Approved Hyperbaric Repairer

**KEY CUSTOMERS**
- Department of Defence
- Majority of Mining Companies (eg. BHP, Xtrata)
- All Emergency Services

**KEY PARTNERS**
- Lockheed Martin
- Rheinmetall

---

**EB FUSION**  
**www.ebfusion.com.au**  
George Lam  
Business Development Manager  
EB Fusion Pty Ltd  
15 Batman Street, West Melbourne VIC 3003  
Tel: +61 3 9320 1107  
Email: enquiries@ebfusion.com.au

**CAPABILITIES**
- Specialist Electron Beam welding service
- High precision CNC Turning and Engineering capabilities utilising 3D CAD CAM

**DISCRIMINATORS**
- Unique Electron Beam welding facility, adaptable to suit your specific requirements.
- Maximum amount of weld penetration with the least amount of heat input, reducing distortion
- EB welding often reduces the need for secondary operations
- A cleaner, stronger, and homogeneous weld is produced in a vacuum

**SUBMARINE CAPABILITY AREAS**
- Metal Fabrication
- Research & Development

**QUALITY APPROVALS & AWARDS**
- Internal QMS employed; ISO 9001:2015 pending

---

**KEY CUSTOMERS**
- Defence
- Automotive
- Oil & Gas
- Scientific & Medical

**KEY PARTNERS**
- Lockheed Martin
- Rheinmetall
- Dräger has a proven track record of understanding and meeting expectations having been the designer
- Our product and service offerings are an excellent fit with the profile of the specified requirements.
- We have the capability to provide a genuinely integrated end-to-end service
**ENERSYS AUSTRALIA PTY LTD**

**www.enersys.com.au**

Atilla Kolik

Sales Manager - Defence

EnerSys Australia Pty Ltd

309 Settlement Road, Thomastown VIC 3074

Tel: +61 (0)413 261 262

Email: atilla.kolik@enersys.com.au

---

**CAPABILITIES**

- EnerSys is the global leader in stored energy solutions.
- Extensive product range that serves a variety of commercial and military applications globally.
- Key industries served include: Telecoms, Motive-Power, UPS, Utilities, Renewable/Solar, Aerospace and Defence.

---

**DISCRIMINATORS**

- Worlds largest industrial energy storage company
- Over 100 years experience in battery manufacturing
- 30% global market share (Over 10,000 customers in 100 countries)
- Global manufacturing and distribution capabilities (over 20 ISO-accredited plants)

---

**KEY CUSTOMERS**

- Australian Department Of Defence
- BAE Systems
- Rheinmetall
- Supacat

---

**QUALITY APPROVALS & AWARDS**

- ISO 9001/ISO 14001
- Member of AIDN
- Member of NZDIA

---

**ENVIROFLUID**

**www.envirofluid.com**

Lorraine Johnson

National Account Manager

Envirofluid

39 Coghlan Road, Warrnambool VIC 3280

Tel: +61 3 5564 6455

Email: lorraine.johnson@envirofluid.com

---

**CAPABILITIES**

- Manufacturer of eco-friendly cleaners, degreasers and specialty chemicals that conform to WHS Guidelines
- Low flammable Solvent replacements for MEK, Toluene, Acetone and DG Chemicals
- Low odour and Non DG solvent degreasers and Brake Cleaners that are suitable for use in confined spaces
- Eco-safe water treatment, scale removal and odour control solutions that reduce waste disposal costs

---

**DISCRIMINATORS**

- Recyclable WHS compliant solvent degreasers that reduce disposal costs and chemical inventory requirements
- Low evaporative products that reduce wastage and extensive PPE requirements
- High flash point solvents that reduce health and litigation risks
- Eco-friendly chemicals that protect surfaces and lower replacement costs

---

**KEY CUSTOMERS**

- BAE
- ASC
- Forgacs
- Thales

---

**QUALITY APPROVALS & AWARDS**

- ISO 9001, ISO 1400, GEAR, HACCP
- Letter of Recognised Supply Defence
- MRO SON 404267 Panel Member Defence
- SAM, Asia/NCEO, NATO, Airbus Boeing Douglas

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**SUBMARINE CAPABILITY AREAS**

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<td>Electrical Systems</td>
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<tr>
<td>Heating, Ventilation &amp; Air-conditioning</td>
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<tr>
<td>Design &amp; Engineering</td>
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<tr>
<td>Through Life Support</td>
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**SUBMARINE CAPABILITY AREAS**

<table>
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<tr>
<th>CUSTOMER</th>
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<tbody>
<tr>
<td>Fluid Systems</td>
<td>✗</td>
</tr>
<tr>
<td>Through Life Support</td>
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</table>
**FLUID DYNAMICS**

**www.fluiddynamics.com.au**

John Bolton  
Managing Director  
Fluid Dynamics Pty Ltd  
25 Star Cres. Hallam VIC 3803  
Tel:  +61 3 9796 5988  
Email:  mail@fluiddynamics.com.au

**CAPABILITIES**

- Experience: Specialising in Heat Exchangers since 1981  
- Design: Capability to produce Heat Exchangers for almost every application  
- Manufacturing: Fully equipped Australian factory  
- Stock: Extensive stock of Heat Exchangers, components and parts  
- Range: Shell & Tube; Finned Tube; Plate; Coil; Brazed Plate & Bar; Custom Built

**DISCRIMINATORS**

- Over 32 years’ experience  
- Defence capable and ready  
- Capability to re-engineer & custom build  
- Ability to handle demanding Defence & OEM projects and one-off jobs  
- Large Ultrasonic Cleaning System

**QUALITY APPROVALS & AWARDS**

- ISO 9001:2008  
- Supplier Continuous Improvement Programme (SCIP)  
- Defence Recognised Supplier

**SUBMARINE CAPABILITY AREAS**

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</table>

**KEY CUSTOMERS**

- Marine/Defence: MTUOHA, Thales, ANZAC Class Frigates, Armidale Class Patrol Boats, etc.  
- Industry: VISY, NEC, Norske Skog etc.  
- Mining: BHP Billiton, Santos, Rio Tinto, Minara etc.  
- Compressors: Sullair, Champion, Kaiser, Compair etc.

**FRONTLINE AUSTRALASIA**

**www.frontline-aust.com.au**

Samuel Rabinovich  
Senior Defence Engineer  
Frontline Australasia Pty. Ltd.  
55 Letcon Dr, Bangholme VIC 3175  
Tel:  + 61 3 9768 4235  
Email:  srabinovich@frontline-aust.com.au

**CAPABILITIES**

- Project management  
- Process and product design and development  
- Production of low to high volume, local valve production 1500-3000 items per year  
- CNC and manual milling, turning, drilling, jigging, polishing, lapping, precision assembly.  
- Working with various materials: steel, stainless steel, copper alloys & exotic alloys

**DISCRIMINATORS**

- Australian owned company with strong technology and engineering focus  
- Australia manufacturing focus  
- Developed over the years network of the accredited local and overseas subcontractors.  
- Track record of successfully delivering components and services to shipyards in Australia, New Zealand & Malaysia

**QUALITY APPROVALS & AWARDS**

- CMMS measuring laboratory, testing: hydraulic, pneumatic/electrical actuators, ADR 62/02 static & dynamic  
- Quality Management System  
- Warehousing and dispatching facilities; inventory control

**SUBMARINE CAPABILITY AREAS**

<table>
<thead>
<tr>
<th>Domain</th>
<th>Fluid Systems</th>
<th>Metal Fabrication</th>
<th>Through Life Support</th>
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**KEY CUSTOMERS**

- ASC, Australia Submarine Corporation  
- BAE Systems Australia  
- BNS Shipyard, Malaysia  
- Australian, New Zealand & Malaysian Navies

**QUALITY APPROVALS & AWARDS**

- ISO 9001:2008  
- ISO/TS 16949; ISO/IES17025  
- Victoria Innovation Company of the Year, 2008  
- Victoria Supplier of the Year, 2009
CAPABILITIES
- Globally unique to Hide Away Safe Co
- Literally the most awesome new broad spectrum security system anywhere in the world
- Made from ‘state of the art’ liquid injected LEXAN Military grade Polycarbonate
- Successful ‘systems integration’ proven over 20 years
- Ideal as a Defence personnel’s private on board security safe

DISCRIMINATORS
- Australian designed, owned and made MOTS products. Manufactured by an SME rural family business
- Global leader in ‘Security Portability’ proven over 25 years within Government, Corporate and Defence
- One of Defence’s long term ‘systems integration projects’ 2008 through to 2035
- Designed and built with a minimum 50 year life cycle with minimal ‘through life cost’

KEY CUSTOMERS
- Department of Defence - MBAuP, RMMVA, Thales
- Australian Border Force, AFP, all State Police
- Numerous government departments vehicle fleets
- Justice Department Vic - Sheriffs Fleet

QUALITY APPROVALS & AWARDS
- AS/NZS ISO9001:2008 Cert #17101201 Lic #Q0171

PRODUCTS
- Single
- Reloctratable from one Docking Station to another. Single Hide Away Safe - multiple secure locations
- Lightweight, virtually indestructible, easily concealed and used, installed in minutes and relocated in seconds
- Can be used by hand, in transit or locked down or all three
- Defence Recognised Supplier Land 121 3A, 3B, 5A

SERVICES
- High end fabricaion & machining of the worlds largest girth gears, mill shells & dragline components
- From design to manufacture, everything is performed in-house
- On-site services worldwide - initial consultation & inspection through to refurbishment or repair & installation
- 100% Australian owned family company
- Manufacturing locations include Perth (HQ), Bendigo, Melbourne, Newcastle & South America

QUALITY APPROVALS & AWARDS
- AS 9100 Rev C:2009 - Cheltenham Site (IT & Export)

SUBMARINE CAPABILITY AREAS
- Communication Systems
- Electrical Systems
- Outfitting & Raw Material
- Safety Systems
- Through Life Support

SUBMARINE CAPABILITY AREAS
- Propulsion Systems
- Design & Engineering
- Metal Fabrication
- Outfitting & Raw Material
- Research & Development
- Through Life Support
- Tooling
HYDRIX PTY LTD
www.hydrix.com
Bill Hill
GM, Strategic Business Development
Hydrix Pty Ltd
104A Dandenong Rd, Carnegie VIC 3163
Tel: +61 3 8573 5299
Email: bill.hill@hydrix.com

CAPABILITIES
- New product development
- New technology research and development
- Systems engineering
- RF communications
- Mechanical system design and development
- Electronics system design and development
- Software engineering

KEY CUSTOMERS
- Confidential - design of key avionics
- Confidential - design of military wireless system
- Siemens - design of rail radio comm's unit

QUALITY APPROVALS & AWARDS
- ISO 9001, 13485, 14001 and 18001 accredited
- Victorian Manufacturing Hall of Fame
- Red Dot Award
- iF Award

DISCRIMINATORS
- All employees are at least degree qualified with an average 15 years development experience
- Track record of technical problem solving and applied research to develop novel products
- Track record on developing and new technology and transferring into manufacture

I F THOMAS & ASSOCIATES
www.ifta.com.au
Ian Thomas
Principal Partner
I F Thomas & Associates
123 Nelson Place, Williamstown VIC 3016
Tel: +61 3 9397 1413
Email: ifta@ifta.com.au

CAPABILITIES
- Incident and accident investigation, reporting and providing expert evidence
- Helping you to comply with all of your regulatory compliance obligations
- Notional and quantified risk assessment, vapour cloud, explosion and chemical modelling
- Engineers declarations for design approval

DISCRIMINATORS
- Oozing with experience 25 years in industry and 25 years to date consulting
- Chair of many professional organisations over the years and now
- I am the person that you will work with, no duck-shoving to juniors
- Published numerous technical papers and presented at conferences here and overseas

KEY CUSTOMERS
- Risk Engineering Society
- Asset Management Council Inc
- Sustainable Engineering Society
- Institute of Occupational Hygienists

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SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Modelling & Simulation
- Professional Services
- Research & Development
- Safety Systems
- Training Services

KEY PARTNERS
- Middeltons Lawyers/Thales, Mulwala
- Port of Melbourne Corporation
- Port of Portland Authority
- Orca Pty Ltd/Gellibrand Pier Containment Boom

I F THOMAS & ASSOCIATES
www.ifta.com.au
Ian Thomas
Principal Partner
I F Thomas & Associates
123 Nelson Place, Williamstown VIC 3016
Tel: +61 3 9397 1413
Email: ifta@ifta.com.au

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- Design & Engineering
- Modelling & Simulation
- Professional Services
- Research & Development
- Safety Systems
- Training Services
INTERCHEM PTY LTD
www.interchem.com.au

David Sewell
Director
Interchem Pty Ltd
20 Harper Street, Abbotsford VIC 3067
Tel: +61 3 9270 9600
Email: info@interchem.com.au

INTERCHEM PTY LTD
www.interchem.com.au

David Sewell
Director
Interchem Pty Ltd
20 Harper Street, Abbotsford VIC 3067
Tel: +61 3 9270 9600
Email: info@interchem.com.au

CAPABILITIES
- Military specification lubricants, oils, greases
- Instrument oils, general lubrication
- High performance greases
- Anti-corrosion fluids
- Dielectric fluids

DISCRIMINATORS
- Mineral & synthetic based fluids for marine hydraulic systems
- Mineral & synthetic greases according to U.S., British, German, French specs
- Protective mineral oils, compounds, greases

INCITIAS
www.incitias.com

Holger Kelle
Director
INCITIAS Pty Ltd
5 Marrakai Court, Eltham VIC 3095
Tel: +61 (0)400 907 9445
Email: info@incitias.com

INCITIAS
www.incitias.com

Holger Kelle
Director
INCITIAS Pty Ltd
5 Marrakai Court, Eltham VIC 3095
Tel: +61 (0)400 907 9445
Email: info@incitias.com

CAPABILITIES
- Solution provider for the marine, oil, LNG, defence industry from design to on-going maintenance
- Advisory: pre-FEED, FEED, desk top design review, concept selection, owner engineering, legal arbitration support
- Advisory: contracting strategy, financial modelling, cost estimating, scheduling for capital project
- Advisory: naval architecture, construction, commissioning and installation owner representative

DISCRIMINATORS
- 15+ years oil and gas and bespoke equipment background
  Full life-cycle marine equipment, design, support and maintenance
- Consultants Design Experience, Submarines Class U209 and U214 RAN SEA1654 and ANZAC program
- Hydrodynamic, Hydrostatic, FEA modeling, marine transportation, load-out and float-over and offshore lift design
- World leader in developing floating LNG re-gasification terminals (over 50% of the terminal projects world wide)
- Experts in systems marinisation, modularisation and new technology qualification
- Owner representative from concept to project completion
- Specialist in EPC shipyard contracting and project execution

KEY CUSTOMERS
- Sumitomo (Japan), CLP (Hong Kong),
- SOGREAH GULF (Dubai), Nogaholding (Bahrain)
- WorleyParsons (Singapore)
- Confidential OEM

KEY PARTNERS
- Nyco S.A. (France)
- Penrite (Australia)

QUALITY APPROVALS & AWARDS
- ISO 9001 conform quality systems

QUALITY APPROVALS & AWARDS
- ISO9001:2008

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Metal Fabrication
- Modelling & Simulation
- Outfitting & Raw Material
- Professional Services
- Research & Development
- Through Life Support
- Testing

SUBMARINE CAPABILITY AREAS
- Fluid Systems
- Through Life Support

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Metal Fabrication
- Modelling & Simulation
- Outfitting & Raw Material
- Professional Services
- Research & Development
- Through Life Support
- Testing

SUBMARINE CAPABILITY AREAS
- Fluid Systems
- Through Life Support
CAPABILITIES

- Proposal development: improved program definition - well informed capabilities vs. cost decisions to achieve goals
- Agencies, primes & suppliers collaboration to bid and deliver winning programs, on time and within budget
- Configuration & Definition management: Manage documentation for platform configuration & explore best alternatives
- Through life support: asset management of fleet to maintain variance, configuration control & readiness
- Business Process Analysis / Re-engineering, Reverse

DISCRIMINATORS

- Supporting DoD projects/ Navy Platform Systems including ANZAC, Collins, LHD, ACPB, AWD
- Scenario-based training: Real-time Engineering Fleet training Interactive Naval Environment for DMPS
- Market leaders in IP Control, ITAR management, Program & Configuration Management, Certification for Defence
- Key supplier in Defence market, to DOD & DMO for more than 20 years

INVENIO PTY LTD
www.invenio.com.au
Ivan Meisel
Managing Director & CEO
Invenio Pty. Ltd.
Level 4, 37-41 Prospect St, Box Hill VIC 3128
Tel: +61 3 9896 8888
Email: ivanm@invenio.com.au

 Engineering, Workflow, 3D Visualisation, Process Automation
- ITAR data management support, IP management & control, risk management, lean engineering, consultancy
- CATIA: 3D design (complex assembly), ENOVIA, Collaboration, PDM, data management, BOM software, services, training
- Engineering recruitment, Business Services: CAD / CAM design, modeling, drafting, CAE / FEA, GD&T, Project Management
- Proven technology applications to Royal Australian Navy, US Army, Defence & Space Korea, SAAB, BAE
- Dassault Systemes certified Education Partner & Industry Solutions Partner ( CATIA, ENOVIA, DELMIA, EXALEAD)
- In-house capabilities for CAD design, modeling, engineering simulation (CAE), project implementation and support
- 15+ years preferred supplier to aerospace & automotive clients, global network of highly qualified candidates

SUBMARINE CAPABILITY AREAS

- Battery Technologies
- Communication Systems
- Electrical Systems
- Fluid Systems
- Heating, Ventilation & Air-conditioning
- Propulsion Systems
- Design & Engineering
- Metal Fabrication
- Modelling & Simulation
- Outfitting & Raw Material
- Professional Services
- Research & Development
- Safety Systems
- Signature Management
- Through Life Support
- Training
- Training Services

KEY PARTNERS

- Dassault Systems
- Submarine Institute of Australia
- Australian Association for Unmanned Systems
- Australian Automotive Aftermarket Association

QUALITY APPROVALS & AWARDS

- ISO 9001:2008
- Defence Restricted Network (DRN)
- Dassault Systems V5, V6 certified Partner
- Dassault Systems Certified Education Partner

Jacobs Radio (Australia) Pty Ltd
www.jacobsradio.com
Michael W. Jacobs
Managing Director
14 Howship Court, Ringwood East VIC 3135
Tel: +61 3 9879 3337
Email: info@jacobsradio.com

CAPABILITIES

- System design/engineering of military electronics equipment
- Local manufacture of military electronics equipment
- Build-to-print of military electronics equipment. Re-engineering/modification of military electronics equipment
- Environmental qualification of military electronics equipment
- Custom design of military electronics equipment

DISCRIMINATORS

- Solutions which are innovative, latest technology and in timeframes not achievable by traditional purchasing
- All work performed in Australia with resulting easy contact at all times
- If you have a problem requiring new or modified hardware we can probably solve it for you

KEY CUSTOMERS

- ASC, Army, Navy, Tenix, Boeing, L3, ADI/Thales
- NZDF, SAAB, Lockheed Martin

QUALITY APPROVALS & AWARDS

- Since 1987 operated AS1821, AS9001 and ISO9001
JOTUN AUSTRALIA PTY LTD
www.jotun.com.au
Frank Brown
National Marine Manager
Jotun Australia Pty Ltd
9 Cawley Road, Brooklyn VIC 3012
Tel: +61 (0)439 570 547
Email: frank.brown@jotun.com.au

CAPABILITIES
- Antifouling Paint
- Internal submarine paint
- Topsides Paint

DISCRIMINATORS
- The Number one Marine Paint company in the world
- Fully qualified technical service personal
- Local Manufacture

KEY PARTNERS
- Jotun AS (Head office)

QUALITY APPROVALS & AWARDS
- ISO 9001
- ISO 14001
- OHSAS 18001
- Marine Paint supplier of the year 2012,13 & 14

SUBMARINE CAPABILITY AREAS
<table>
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J.T. DAY PTY LTD
www.jtday.com.au
Scott Carse
Business Development Manager
J.T. Day Pty Ltd
L4, 150 Albert Rd, South Melbourne VIC 3205
Tel: +61 3 9685 7522
Email: scott.carse@jtday.com.au

CAPABILITIES
- JT Day is a specialist supplier of hazardous area electrical and related products to support industries that demand high levels of reliability in extreme conditions and environments.
- Australian distributor / stockist of Hawke Transit Systems (Multi Cable Transit Systems) MCTOs.
- Major supplier of cables (Shipboard & Military Specifications) and supporting cable management products.

DISCRIMINATORS
- Hawke Transit Systems MCTOs (HTS) = Increased safety
- HTS - Total inspectability. Colour coded blocks provides inspectability after assembly.
- HTS - No onsite modification. 5 sealing faces ensure the perfect fit.
- HTS - Quality product. Eliminates installer modification errors and wastage.
- HTS - Flexibility. Removal and refit to add cable or pipe
- HTS - Certified system by leading world bodies.
- HTS - Unique and PATENT compression system.
- HTS = Cost effectiveness

KEY PARTNERS
- JT Day is the Australian distributor for HTS
- Hawke Transit System - www.hawke-hts.com

QUALITY APPROVALS & AWARDS
- ISO9001:2008 Certified by LRQA
- HTS - MED 96/98/EC

KEY CUSTOMERS
- ASC Pty Ltd D AWD Project (ongoing)
- BAE Systems D LHD (Complete)
- Woodside Energy
- ConocoPhillips

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KEEPCastingS AUSTRALIA
www.keeich.com.au
Brad Clark
National Sales Manager
Keech Castings Australia
30-46 Powell Street, Bendigo VIC 3550
Tel: +61 3 5445 8262
Email: bclark@keeich.com.au

CAPABILITIES
• High integrity steel casting foundry - Australia’s most progressive foundry
• Extensive engineering and design capabilities including reverse engineering
• Solutions provider - from customised design, prototyping, validation and manufacture
• Dedicated material engineering team, with full testing/validation capabilities

DISCRIMINATORS
• Australian owned and operated for over 80 years
• Respected supplier to the mining, agriculture, rail, industrial and infrastructure markets
• Lean manufacturing driven company providing globally competitive pricing
• “Design for Despatch” philosophy driven business

KEY PARTNERS
• Keech 3D Advanced Manufacturing
• Keech Mining Supplies
• CSIRO
• Deakin University

KEY CUSTOMERS
• Hitachi Construction Australia (HCA Australia)
• Hitachi Construction Machinery (HCM Japan)
• BHP Billiton
• UGL Limited

QUALITY APPROVALS & AWARDS
• ISO 9001, ISO14001, AS/NZS4801
• Endeavour Award Winner 2015
• BRW Best Regional Business Winner
• BRW Top 50 Most Innovative Company

K E P P E L P R I N C E E N G I N E E R I N G
www.keppelprince.com.au
Dan McKinna
Assistant General Manager
Keppel Prince Engineering Pty Ltd
184 Darts Rd, Portland VIC 3305
Tel: +61 3 5523 8888
Email: dan.mckinna@keppelprince.com.au

CAPABILITIES
• Steel Fabrication - Towers, Vessels, Tanks, Pipe, Plate, General
• Mechanical, Electrical and Refrigeration Maintenance Services - Preventative, Predictive, Incl 500Kv; On Call 24/7
• Mobile Cranes - Up to 200T
• NDT Testing - Eddy Current, Magnetic Particle, Ultrasonic, Die Penetrant, Level 3 Qualified.

DISCRIMINATORS
• Highly Skilled Workforce - 260 Employees
• Large Manufacturing Workshop - 32,700m2
• 128 Acres of Land
• Access to Deep Water Port (Port of Portland)
• Proven record to deliver projects on time and budget

KEY PARTNERS
• Keppel Group - Parent Company

KEY CUSTOMERS
• Alcoa - Maintenance Delivery and Fabrication
• Telstra - Telecommunication towers
• Vestas - Wind Turbine Towers

QUALITY APPROVALS & AWARDS
• ISO 9002

SUBMARINE CAPABILITY AREAS
Electrical Systems
Metal Fabrication
Outfitting & Raw Material
Training Services

KEECH CASTINGS AUSTRALIA
www.keeich.com.au
Brad Clark
National Sales Manager
Keech Castings Australia
30-46 Powell Street, Bendigo VIC 3550
Tel: +61 3 5445 8262
Email: bclark@keeich.com.au

CAPABILITIES
• High integrity steel casting foundry - Australia’s most progressive foundry
• Extensive engineering and design capabilities including reverse engineering
• Solutions provider - from customised design, prototyping, validation and manufacture
• Dedicated material engineering team, with full testing/validation capabilities

DISCRIMINATORS
• Australian owned and operated for over 80 years
• Respected supplier to the mining, agriculture, rail, industrial and infrastructure markets
• Lean manufacturing driven company providing globally competitive pricing
• “Design for Despatch” philosophy driven business

KEY PARTNERS
• Keech 3D Advanced Manufacturing
• Keech Mining Supplies
• CSIRO
• Deakin University

KEY CUSTOMERS
• Hitachi Construction Australia (HCA Australia)
• Hitachi Construction Machinery (HCM Japan)
• BHP Billiton
• UGL Limited

QUALITY APPROVALS & AWARDS
• ISO 9001, ISO14001, AS/NZS4801
• Endeavour Award Winner 2015
• BRW Best Regional Business Winner
• BRW Top 50 Most Innovative Company

KEPPEL PRINCE ENGINEERING
www.keppelprince.com.au
Dan McKinna
Assistant General Manager
Keppel Prince Engineering Pty Ltd
184 Darts Rd, Portland VIC 3305
Tel: +61 3 5523 8888
Email: dan.mckinna@keppelprince.com.au

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• Steel Fabrication - Towers, Vessels, Tanks, Pipe, Plate, General
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• ISO 9002

SUBMARINE CAPABILITY AREAS
Electrical Systems
Metal Fabrication
Outfitting & Raw Material
Training Services
**KLINGER LIMITED AUSTRALIA**

**www.klinger.com.au**

Mr John Meago  
Regional Sales Manager Vic/Tas  
Klinger Limited Australia  
33-35 Gaine St, South Dandenong VIC 3175  
Tel: +61 (0)412 626 021  
Email: John_meago@Klinger.com.au

---

**LEAN DESIGN AUSTRALIA**

**www.leandesign.com.au**

Gary Stewart  
Managing Director  
Lean Design Australia Pty Ltd  
Tel: +61 (0)400 888 186  
Email: garystewart@leandesign.com.au

---

**CAPABILITIES**

- Gasket & seal manufacturer and designer  
- only Australian manufacturer of gasket sheet material  
- level gauge design and manufacturer  
- leak detection and repair  
- critical gasket & seal flange assembly  
- engineering design & review of gasket applications

**DISCRIMINATORS**

- Owned by klinger group which is #1 global gasket manufacturer only Australian based manufacturer of sheet based gasket  
- material for local and export requirements  
- global supply centres  
- proven track record for defence platforms  
- engineering design & review of gasket applications

**KEY CUSTOMERS**

- Bae Systems, Tenix Prior  
- ASC  
- Navantia  
- Actively Exporting To South Korea & Japan

**QUALITY APPROVALS & AWARDS**

- ISO9001  
- ISO14001  
- AS4801  
- Achilles

---

**KLINGER LIMITED AUSTRALIA**

**www.klinger.com.au**

Mr John Meago  
Regional Sales Manager Vic/Tas  
Klinger Limited Australia  
33-35 Gaine St, South Dandenong VIC 3175  
Tel: +61 (0)412 626 021  
Email: John_meago@Klinger.com.au

---

**LEAN DESIGN AUSTRALIA**

**www.leandesign.com.au**

Gary Stewart  
Managing Director  
Lean Design Australia Pty Ltd  
Tel: +61 (0)400 888 186  
Email: garystewart@leandesign.com.au

---

**CAPABILITIES**

- Process Optimization and Process Redesign - Manufacturing Processes + Product Development Processes  
- Material and Service Acquisition Processes + Design for Service, Maintenance & Upgrade (Sustainment)  
- Lean Design and Manufacturing Training + Classroom Training on Lean Design Concepts and Methods  
- Workshops on Lean Design Methods & review of subsystem designs for reduction in design complexity & cost

**DISCRIMINATORS**

- Design of Product as an Ecosystem: 40-80% Program Cost Reduction 20-40% shorter program development timelines  
- 90% better Quality outcomes 90% better Sustainment outcomes 95% better Risk Maturity Modeling & performance outcomes  
- 90% better Affordability & Producibility outcomes Most Design changes before drawn in CAD - or before you cut steel  
- Result A: Less problems, lower cost, shorter timelines - less Risk Result B: Affordable programs for your customer

**KEY CUSTOMERS**

- Munro & Associates, LLC  
- Design Profit, Inc

**SUBMARINE CAPABILITY AREAS**

**CIVIL SERVICES**

- Fluid Systems  
- Heating, Ventilation & Air-conditioning  
- Design & Engineering  
- Outfitting & Raw Material  
- Through Life Support  
- Training Services

**SUBMARINE CAPABILITY AREAS**

**CIVIL SERVICES**

- Design & Engineering  
- Modelling & Simulation  
- Professional Services  
- Training Services

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**KEY PARTNERS**

- Klinger Holding Gmbh Parent Company

---

**KEY PARTNERS**

- Bae Systems, Tenix Prior  
- ASC  
- Navantia  
- Actively Exporting To South Korea & Japan

---

**KEY CUSTOMERS**

- US DoD  
- DARPA/AFRL  
- BAE: Astute  
- Elec Boat: Virginia
**LIGHT MY FIRE AUSTRALIA PTY LTD**

htiwater.com.au

Errol McClelland
Managing Director
Light My Fire Australia Pty Ltd
163 Shanahans Road, Strathfieldsaye VIC 3551
Tel: +61 (0)429 396 939
Email: errol.mcclelland@gmail.com

**CAPABILITIES**
- Desalination utilising forward osmosis technology
- No pumping required
- Never blocks
- Can be utilised by injured people
- No moving parts
- Can be used in contaminated or sea water
- Balanced electrolyte drink

**DISCRIMINATORS**
- U.S. Coastguard “mandatory” 3 SeaPack Crew built into life vests
- Made in the USA
- No moving parts

**KEY CUSTOMERS**
- U.S. Coastguard
- Singapore
- Canadian Military
- Eurofighter

---

**QUALITY APPROVALS & AWARDS**
- Exceeds all guidelines for safe drinking water

---

**SUBMARINE CAPABILITY AREAS**

| Fluid Systems | ☑ |
| Safety Systems | ☑ |
| Through Life Support | ☑ |

---

**LMATS PTY LTD**

www.lmats.com.au

Pranay Wadyalkar
Director / Technical controller
LMATS Pty Ltd
6 Techno Park Drive Williamstown VIC 3016
Tel: +61 3 9399 9199
Email: pranay@lmats.com.au

**CAPABILITIES**
- Metallurgical, Mechanical & corrosion testing
- Failure Analysis - Metallurgical
- Metals Chemical analysis & PMI
- Metals Chemical analysis & PMI
- Third party Inspection & Pressure vessel Inspection
- Hydrostatic pressure test
- WPS & PQR Development & verification
- Coatings tests and field inspection

**DISCRIMINATORS**
- Single point of contact for Comprehensive range of tests
- Australia wide coverage for on-site testing
- Advanced NDT Services - ECA, PAUT, TOFD
- Sealants, adhesives, gels, polymer tests
- Material Eng. & Ad. NDT combined Services
- Multi skilled and cross skilled staff
- Quickest Online reporting to save client’s time
- Lean, Kaizen, Kanban, Poka.Yoka, 5S work System

**KEY CUSTOMERS**
- BAE Systems Williamstown & Bandiana VIC - Commo
- BAE Systems Aust. Defence Edinburgh SA - IGA 1
- Australian Submarine Corporation SA - Osborn
- Origin energy

---

**QUALITY APPROVALS & AWARDS**
- AS ISO 17025
- NATA Accredited labs in Melb.,Syd, Brisbane
- BAE UK approved for Titanium IGA & NDT
- Aust. Institute for NDT . Director, ICNDT & AP

---

**SUBMARINE CAPABILITY AREAS**

| Professional Services | ☑ |
| Research & Development | ☑ |
LOGISTIC ENGINEERING SERVICES
www.les.net.au
Phil Jarratt
General Manager
Logistic Engineering Services Pty Ltd
Level 1, 7 Westside Avenue, Port Melbourne VIC 3207
Tel: +61 3 8698 6400
Email: admin@les.net.au

CAPABILITIES
- Integrated Logistic Support
- Level of Repair Analysis
- Logistic Support Analysis and Records
- Logistic Support Analysis
- Reliability Centered Maintenance
- Failure Modes, Effects and Criticality Analysis
- Maintenance Requirements Determination
- Technical Documentation

DISCRIMINATORS
- Over 35 years of Defence and Industry Knowledge and Experience in ILS
- Innovation through application of technology
- Specialist software supporting ILS
- Quality Certified
- Specialist in delivery and management of LSA and LSAR
- Extensive Experience in data conversion services and tools
- Transparency and reliability of service
- Cost Competitive

KEY CUSTOMERS
- Capability Acquisition and Sustainment Group
- BAE Systems
- Sikorsky Helitech
- GH Varley
- ADM Essington Lewis Trophy 2009
- DMO/Industry Team of the year Award 2009
- Defence Industry Security Program
- Defence Industry Security Program
- BAE Systems
- Sikorsky Helitech
- GH Varley

QUALITY APPROVALS & AWARDS
- AS/NZS 9001:2008
- ADM Essington Lewis Trophy 2009
- DMO/Industry Team of the year Award 2009
- Defence Industry Security Program

LOVITT TECHNOLOGIES AUSTRALIA
www.lovittech.com.au
Bruce Ramsay
Manufacturing Director
George Lovitt (Manufacturing) Pty Ltd
207 Para Road, Montmorency VIC 3084
Tel: + 61 3 9431 7335
Email: bruce@lovittech.com.au

CAPABILITIES
- CNC Machining of complex components in Aluminum, Steel and Titanium up to 3,000mm.

DISCRIMINATORS
- Proven track record in machining, processing and assembly complex components for defense industries.

KEY CUSTOMERS
- Castle metals, TMX, Electomold (owned by LTA)
- Boeing F18,F15,V22,P8,CH47, LM F35, NG F35

QUALITY APPROVALS & AWARDS
- AS 9100

SUBMARINE CAPABILITY AREAS

<table>
<thead>
<tr>
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<th>CUSTOM</th>
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<tr>
<td>Design &amp; Engineering</td>
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SUBMARINE CAPABILITY AREAS

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<tr>
<td>Propulsion Systems</td>
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</tbody>
</table>
**CAPABILITIES**

- Rubber and composites manufacturer of end-to-end solutions encompassing: Design, Development and Manufacture.
- Two manufacturing locations: Melbourne, Australia and Rayong, Thailand.
- Process types: Extrusion, Compression, Transfer and Injection Moulding.

**DISCRIMINATORS**

- Trusted partner of the Defence Science and Technology Group (DST Group) developing enhanced products.
- ITAR compliant with approved secure manufacturing facility and key employees with NV1 security clearance
- Technical Services Centre, encompassing: mathematical modeling, rubber and product development & II do difficult
- Specialist materials from globally sourced suppliers e.g. aeronautical materials: ablative, pre-preg, and adhes

**KEY PARTNERS**

- Defence Science and Technology Group
- Leap Australia

**QUALITY APPROVALS & AWARDS**

- AS/NZS ISO14001:2004
- ISO/IEC17025:2005 (NATA approved Laboratory)
- TS16949:2009

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**MACKAY DEFENCE**

www.mackayrubber.com.au

Olaf Aim
Sales Engineer - Defence
Mackay Consolidated Industries Pty Ltd
260 Chesterville Rd, Moorabbin VIC 3189
Tel: +61 3 9555 6500
Email: olaf.aim@mackayrubber.com.au

**CAPABILITIES**

- Custom fabrication with autoclave facilities (up to ‘1.8 x 6 metre).
- Moulding press capacity ranging up to 1,000 tonne, capable of producing parts 2.4 x 1.5 metre.
- In-house material formulation development, mixing and compounding.
- Specialist hand build competency.

**DISCRIMINATORS**

- Liquid moulding tooling, resin injection and infusion systems
- Highly efficient DC Electric motors/generators
- Fatigue testing equipment & training devices

**KEY CUSTOMERS**

- Lockheed Martin (Source Acceptance Approval)
- BAE Systems (Source Acceptance Approval)
- Boeing
- KONGSBERG

**QUALITY APPROVALS & AWARDS**

- AS/EN 9100C / ISO 9001, ISO 14001, ISO/IEC 17025:2005 (NATA approved Laboratory)
- TS16949:2009

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**MARAND**

www.marand.com.au

Alex Lyon
Business Development Manager
Marand Precision Engineering PTY LTD
153 Keys Road, Moorabbin VIC 3189
Tel: +61 3 8552 0600
Email: alex_lyon@marand.com.au

**CAPABILITIES**

- Design, feasibility studies, specification writing, concept development
- Manufacture, systems integration, prototype development, through life support
- Complex Defence sub-assembly production
- Complete turnkey production facilities set-up
- Lay-up and assembly tooling for all metallic and carbon fibre composite assemblies

**DISCRIMINATORS**

- Australia’s largest proven and trusted Aerospace Tooling, Automation, Robotics, and Systems Integrator
- Designer and sole source manufacturer of the JSF F-35 Engine Removal and Installation Trailer
- Strategic second source for the Joint Strike Fighter Vertical tail production
- Largest Australian manufacturing supplier on F-35 program

**KEY CUSTOMERS**

- Ability to successfully manage large and diverse supply-chains on complex Defence projects
- Awarded for success in completing complex technical transfer on Defence programs
- Highly successful critical path Tier 1 tooling and facility supplier on international programs
- Proven ‘Best Value’ solutions provider to international and local aerospace, defence & rail industries

**QUALITY APPROVALS & AWARDS**

- AS/EN 9100C / ISO 9001, ISO 14001, ISO/IEC 17025:2005 (NATA approved Laboratory)
- TS16949:2009
CAPABILITIES

- The principal activity of MAL is the conduct of the biennial Pacific Inter national Maritime Exposition.
- Promotes innovation in maritime and naval defence technology and export development by Australian industry.

DISCRIMINATORS

- PACIFIC is the most comprehensive commercial maritime and naval defence industry event in the Asia Pacific region.
- A not-for-profit group headed by Aerospace Maritime and Defence Foundation of Australia Limited.
- Strongly supported by the Royal Australian Navy.

KEY PARTNERS

- Royal Australian Navy
- Capability Acquisition and Sustainment Group
- Defence Science and Technology Group
- Department of Industry and Science

KEY CUSTOMERS

- Department of Defence
- Maritime Industry
- Manufacturing Industry
- Research & Development

SUBMARINE CAPABILITY AREAS

- Professional Services

CAPABILITIES

- Promotion of careers and skills through a national program of Careers & Skills Forums around Australia.
- Works closely with not-for-profit industry groups and professional associations.

DISCRIMINATORS

- Conducted Biennially since 2000.
- PACIFIC provides an informed and focused forum providing a wealth of networking opportunities.

KEY CUSTOMERS

- Cubic Defence NZ
- Defence Technology Agency
- NZ Defence Force

SUBMARINE CAPABILITY AREAS

- Design & Engineering
- Modelling & Simulation
- Professional Services
MEMKO PTY LTD
www.memko.com.au
Miro Miletic
Managing Director
MEMKO Pty Ltd
455 Bourke Street, Melbourne VIC 3000
Tel: +61 3 8605 7777
Email: miro@memko.com.au

M. BRODRIBB PTY LTD
www.brodrribb.com.au
Richard Brodribb
Managing Director
M.Brodribb Pty Ltd
15 Carroll Cres, Glen Iris VIC 3146
Tel: +61 3 9832 0222
Email: sales@brodrribb.com.au

CAPABILITIES
- Defence approved transformer manufacturer
- DC charger systems
- Cathodic protection rectifiers
- ISO 9001:2008 certified Manufacturer of dc systems

DISCRIMINATORS
- Skilled engineering and trades staff 60+ years in business
- Long involvement with Defence, espec. Navy
- Modern CAD tools
- Supplied ANZAC, SUCCESS, TOBRUK, KANIMBLA, FFG
- Australian owned, Melbourne based
- Good relationship with ship design groups
- Familiar with ship design requirements for LV transformers

KEY CUSTOMERS
- BAE (transformers)
- Dept Defence (Transformers)
- S.A Water (rectifiers)
- Energex (battery chargers)

QUALITY APPROVALS & AWARDS
- ISO 9001:2008
- SAA certification some products
- IPG supplier Excellence Award 2007

SUBMARINE CAPABILITY AREAS
- Battery Technologies
- Electrical Systems
- Through Life Support

MEMKO PTY LTD
www.memko.com.au
Miro Miletic
Managing Director
MEMKO Pty Ltd
455 Bourke Street, Melbourne VIC 3000
Tel: +61 3 8605 7777
Email: miro@memko.com.au

CAPABILITIES
- Supply, maintenance and development of ISS solution using ENOVIA
- Development and delivery of Technical Publications using 3DVA Composer
- Development and delivery of virtual training solutions using 3DVA
- Composer Provision of engineering services including modelling, simulation, and system engineering

DISCRIMINATORS
- Significant track record in supporting defence primes
- Highly capable and experienced staff
- Cost competitive through utilisation of technology and efficient business processes
- National coverage with offices in Melbourne, Sydney, Brisbane and Perth

KEY CUSTOMERS
- Dassault Systemes

QUALITY APPROVALS & AWARDS
- ASC
- AWD Alliance
- Australian Maritime Safety Authority
- BAE Systems

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Modelling & Simulation
- Professional Services
- Through Life Support
- Training Services
**MICRO PLANNING INTERNATIONAL**

www.microplanning.com.au

Raphael M. Dua  
CEO & Owner  
Micro Planning International Pty Ltd  
P O Box 7177, Melbourne VIC 8004  
Tel: +61 (0)418 531 111  
Email: raf@microplanning.com.au

**CAPABILITIES**

- Planning and Scheduling and Resource Scheduling Consulting Services  
- Project Governance and Controls  
- Earned Value Performance Management  
- Quality Management Implementation and Control

**DISCRIMINATORS**

- 50 years Knowledge and Experience Of Submarine Construction and Refits  
- Project Management through Innovation and Application of Technology  
- Specialist PM Planning and Scheduling Training  
- Specialist Project Management Software  
- Conforms to the project management standards AS4335, AS4817-2006, EAL_ANSI 748-C

**KEY CUSTOMERS**

- Cockatoo Dockyard, Oberon refits and Nu Ship  
- ASC Collins Class Submarine Construction and  
- ANZAC Ship Project for CelsiusTech, Siemens  
- Jindalee Over the Horizon Radar for Telstra

**QUALITY APPROVALS & AWARDS**

- ASC major role delivering Collins Class  
- PC World 1996 - Best Resource Management Sof  
- PC Editor’s Award - 1995 Best Project Manage

---

**MICLspec MANUFACTURING**

www.milspecmanufacturing.com

Medhat Wassef  
Business Development Manager, Defence  
Milspec Manufacturing Pty Ltd  
161-169 Fallon Street, Albury NSW 2640  
Tel: +61 (0)429 400 382  
Email: MedhatWassef@milspec-mfg.com.au

**CAPABILITIES**

- Electro/Mechanical Assembly  
- Racking Systems, Cabinets & Enclosures  
- Cable Harness-design, manufacture & test  
- Testing (CMM, Environmental, RF, EMC & IP)  
- Precision CNC machining & sheet metal  
- Surface finishing (Chromate, Powder Coating & Wet Paint)  
- Mechanical, Electrical & Electronic Design Capability

**DISCRIMINATORS**

- Proven Track Record in complex Defence Platforms  
- Providing Turn-Key solutions, with wide range of in-house electro mechanical capabilities.  
- World wide product support & ITAR Compliant  
- Exceptional Cable Harness design, manufacture & testing

**KEY CUSTOMERS**

- Work for most Defence Prime Contractors

**QUALITY APPROVALS & AWARDS**

- ISO9001:2008  
- AS9100 Rev C  
- Member of Lean SCIP (SC21 program)  
- Defence Industry Security Program-DISP Member

---

**SUBMARINE CAPABILITY AREAS**

- Communication Systems  
- Electrical Systems  
- Metal Fabrication  
- Outfitting & Raw Material  
- Through Life Support
**NIKSAAR AUSTRALIA**

**www.niksar.com.au**  
John Payne  
Managing Director  
Niksar Australia Pty Ltd  
135/45 Gilby Road, Mount Waverley VIC 3149  
Tel: +61 3 9558 9924  
Email: jpp@niksar.com.au

---

**CAPABILITIES**  
- Automatic Test Systems (ATE) Engineering  
- Test Engineering, Specification and Supervision  
- Electromagnetic Modelling and Simulation  
- Electromagnetic Environmental Effects Analysis  
- System Performance Modelling and Simulation (including HIL)  
- System EM/EMC Engineering services

**DISCRIMINATORS**  
- Proven ability in engineering specialised and complex system and sub-system test facilities  
- Demonstrated capability in engineering service delivery for military platform system integration services

**KEY CUSTOMERS**  
- ATP : Siemens Rail Automation  
- JORN ATE : Lockheed Martin Australia  
- Rail Transport : Asciano, QR and Aurizon  
- Jindalee ATE : BAE Systems

**QUALITY APPROVALS & AWARDS**  
- Originally ISO 9001 [ceased audits 2005]  
- Customer audit of QA system from 2006

---

**NOVA SYSTEMS**

**www.novasystems.com**  
John Godwin  
Program Manager - Maritime  
Nova Systems  
Level 2, 95 Coventry Street, South Melbourne VIC 3205  
Tel: +61 3 9024 1851  
Email: john.godwin@novasystems.com

---

**CAPABILITIES**  
- Maritime Test & Evaluation  
- Sea Trials Planning & Conduct  
- Combat & Platform Systems Engineering  
- Safety, Certification & Seaworthiness  
- Acquisition & Sustainment Logistics  
- Project Assurance, Risk & Controls  
- Capability Development

**DISCRIMINATORS**  
- Market leaders in Maritime Test and Evaluation  
- Knowledge and experience in Maritime capability acquisition and introduction to service  
- Australian owned private company with global reach  
- Wide breadth of engagement across majority of major capability acquisition programs in Australia

**KEY CUSTOMERS**  
- GWH Aerospace (member of Nova Group)

**QUALITY APPROVALS & AWARDS**  
- AS/NZS 4801  
- ISO 14001  
- ISO 9001
NOVENTUS  
www.noventus.com.au
Keith Armstrong  
Keith Armstrong / Managing Director  
Noventus Pty Ltd  
L4, Suites 418-419, 566 St Kilda Rd, Melbourne VIC 3000  
Tel: +61 3 9077 8959  
Email: keith.armstrong@noventus.com.au

CAPABILITIES
- Multi-Disciplinary Engineering (Systems, Software, Safety, Electrical, Combat, Marine & Mechanical)
- Multi-Disciplinary ILS (RCM, Spares Analysis, LROR, MRO, FMEOA, CM, LSA, & SCM)
- V&V / Test and Acceptance • Planning & Execution

DISCRIMINATORS
- Current experience with Maritime technology providing multi-disciplinary Project Management, Engineering and ILS
- Reference sites on most Australian Naval platforms
- AWD, LHD, FFG, Amphibious & Afloat, Oilers, Hydrographic, Patrol Boats, Submarines & ANZACs

DISCRIMINATORS
- Flexible workforce able to be engaged on a Managed Service, Fixed Price or T&M basis
- 90% of consultants have active Defence security clearances
- National Reach - 5 States / 16 Sites

SUBMARINE CAPABILITY AREAS
<table>
<thead>
<tr>
<th>AREA</th>
<th>CUSTOM</th>
<th>COMMON</th>
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<tbody>
<tr>
<td>Battery Technologies</td>
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<tr>
<td>Heating, Ventilation &amp; Air-conditioning</td>
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<tr>
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<tr>
<td>Training Services</td>
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</tbody>
</table>

KEY CUSTOMERS
- CASG, RPDE, & DSTO
- BAE Systems, Thales, & Austal
- Lockheed Martin, ASC, & Elbit

QUALITY APPROVALS & AWARDS
- Deloitte Tech50 - Finalist
- Crown Horwath Fastest Growing Comp. - Finalist
- CASSS, RPDE & SEA1000 IPT Panel Member

PENNANT AUSTRALASIA  
www.pennantaust.com.au
David Stephan  
General Manager  
Pennant Australasia Pty Ltd  
Suite 6, 334 Highton Road, Mount Waverley VIC 3149  
Tel: +61 3 9886 7977  
Email: david.stephan@pennantaust.com.au

CAPABILITIES
- Integrated Logistics Support
- Logistics Support Analysis/Records
- Life Cycle Costing
- Level of Repair Analysis
- Spares Optimisation
- Computer Aided Instruction
- Part Task Trainers
- Simulators & Systems Emulators

DISCRIMINATORS
- Expert knowledge in the design, development, and implementation of logistics and training solutions.
- Global operations across Europe, North America, Australasia.
- Over 50 years experience delivering and supporting solutions to international defence forces and industry.
- Product life cycle solutions from design requirements, integration, application, through support.

DISCRIMINATORS
- Integrated products compliant to international standards.
- Support of legacy training devices.
- Integrated customer support.
- In-house R&D, design, production of custom training solutions.

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</tbody>
</table>

KEY PARTNERS
- BAE Systems Australia
- MBDA Australia
- Pennant International Group
- Our customers are our partners

KEY CUSTOMERS
- Australian Defence Organisation
- BAE Systems Australia
- Boeing Defence Australia
- SAAB Australia

QUALITY APPROVALS & AWARDS
- Letter of Recognised Supply
- Defence Recognised Supplier
- Government Endorsed Supplier
PENSKE POWER SYSTEMS
penskeps.com
Roger Gleeson
Manager Defence Programmes Group
Penske Power Systems Pty Ltd
488 Blackshaws Road, Altona North VIC 3025
Tel: +61 3 9243 9292
Email: rgleeson@penskeps.com

CAPABILITIES
• Penske Power Systems is a leading distributor of diesel and gas engines.
• We deliver power systems to the defence, maritime and land sector.
• Operating in dynamic markets on- and off-highway.
• State-of-the-art facilities.
• Representing brands including MTU, Detroit, Allison Transmissions and much more.

DISCRIMINATORS
• Penske Power Systems works closely with the Australian and New Zealand defence, maritime and land sector.
• Providing customised propulsions and power generation solutions, and life-of-type support.
• Full range of diesel engines offer power from 75 to 9,000 kW.
• Engines used in patrol boats, frigates and other maritime platforms, armoured and tactical vehicles.
• MTU engines are known for reliability, simple operation, ease of maintenance and low lifecycle cost.
• Custom ship automation systems including monitoring/control, onboard training, and maintenance.
• Wide-ranging knowledge of the defence acquisition and logistic support methodology.
• Proven track record of providing highly specialised and customised solutions.

KEY CUSTOMERS
• OEMs
• Australian Defence Land & Sea
• New Zealand Defence Sea

QUALITY APPROVALS & AWARDS
• AS/NZS ISO 9001:2008
• AS/NZS ISO 14001:2004
• AS/ANZ 4801:2001

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<table>
<thead>
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<th>Capability</th>
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<td>Propulsion Systems</td>
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<td>Tooling</td>
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<td>Training Services</td>
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</tr>
</tbody>
</table>

PERROPLAS AUSTRALIA PTY LTD
www.perroplas.com.au
Peter Holohan
Accountant/ Director
Perroplas Australia Pty Ltd
2/54 Boundary Road, Braeside VIC 3195
Tel: +61 3 95873076
Email: peter@perroplas.com.au

CAPABILITIES
• Injection moulding up to 1800 tonne
• Tool design and production
• 30 years experience
• Plastic moulder to auto industry
• Quality accreditation

DISCRIMINATORS
• Proven record in producing plastic components

KEY PARTNERS
• Paccar
• Socobel
• Maxiparts

KEY CUSTOMERS
• Perroplas NZ

SUBMARINE CAPABILITY AREAS
CAPABILITIES
- Engineering analysis software (output ENG, RAM, ILS deliverables)
- Model based failure analysis (FMEA / FMECA generation)
- Model based Reliability Allocation and Reliability Analysis
- Model based diagnostic system design and validation (including diagnostic rules)
- Maintenance determination and optimization (RCM / B-RCM)

DISCRIMINATORS
- Model based simulation capabilities based on failure propagation
- Integration with Teamcenter PLM (data generation / transfer)
- Standardized taxonomy of functions and failures (process consistency)
- Experience with naval platforms and RAN projects

KEY PARTNERS
- Siemens Industrial Software
- Babcock Analytical Services

QUALITY APPROVALS & AWARDS
- SME Innovation Award (Pacific 2013)
- IBM R&D Award (AIA) 2009

PHM TECHNOLOGY
www.phmtechnology.com
Chris Stecki
CEO
PHM Technology Pty Ltd
9/120 Queens Parade, North Fitzroy VIC 3068
Tel: +61 3 9482 2007
Email: cstecki@phmtechnology.com

PRECISE ADVANCED MANUFACTURING GROUP
www.precise-amg.com
Greg Daye
Business Development Manager
Precise Global Pty Ltd
VIC Sales Office: 3 Midhurst Court, Craigieburn VIC 3064
Tel: +61 (0)409 964 540
Email: gdaye@precise-amg.com.au

CAPABILITIES
- Precision Machining & Assemblies
- Mould, Cast & Stamped Parts
- Tooling, Jigs, Fixtures & Gauges
- Fabrication, Specialist Welding & General Engineering
- CAD / CAM / CNC Machining
- Prototypes & Reverse-engineering
- Project Management
- Emergency Pipe Repair Solutions (pipe clamps)

DISCRIMINATORS
- Defence Recognised Supplier
- Local & Offshore Manufacturing
- Advanced Manufacturing Knowledge
- ISO Accreditation
- Highly-skilled & Flexible Workforce Emergency Pipe Repair Solutions

KEY CUSTOMERS
- Royal Australian Navy
- DMS Serco (Armidale Patrol Boats)
- US Army (TARDEC)
- US Navy (NAVSEA)
- Siemens Industrial Software
- Babcock Analytical Services

KEY CUSTOMERS
- BAE Systems: Weapons, Missiles Surveillance
- General Dynamic: Components for ASLAV
- Babcock & Australian Submarine Corp
- Air Warfare Destroyer

QUALITY APPROVALS & AWARDS
- ISO9001/2008
- ITAR Approved (QPE Machining Division)

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Modeling & Simulation
- Safety Systems
- Through Life Support

SUBMARINE CAPABILITY AREAS
- Design & Engineering
- Metal Fabrication
- Modeling & Simulation
- Research & Development
- Safety Systems
- Tooling
PRODUCTWISE
productwise.com.au
Peter Mutherin
Director
ProductWise Pty Ltd
Level 3/ 673 Bourke St, Melbourne VIC 3000
Tel: +61 1300 886 980
Email: pm@productwise.com.au

CAPABILITIES
- Register of conforming product in Australian Market
- Screening for product conformance.
- Product fit-for-purpose demonstration.
- Project inventory reporting.
- Product and service filtering.

DISCRIMINATORS
- A register of products that allows sorting, selection and reporting of products against pre-defined metrics.
- Product register demonstrating compliance to Australian regulation, standards, fit-for-purpose & code.
- Filters product and services against pre-defined metrics and/or unique discriminators.
- Members may select ‘approved’ product and services against custom parameters.

KEY CUSTOMERS
- Manufacturers of products.
- Professional services.
- Industry associations.
- Procurement services.

SUBMARINE CAPABILITY AREAS

<table>
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<th>AREA</th>
<th>STATUS</th>
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<tbody>
<tr>
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</table>

PUMP TECHNOLOGY PTY LTD
Ashley Pinder
Director
Pump Technology Pty Ltd
43 Lakewood Boulevard, Braeside VIC 3195
Tel: +61 3 9587 9000
Email: ashley.pinder@pumptechnology.com

CAPABILITIES
- Design and development of centrifugal pumps, where performance, reliability or safety matters.
- In-house computational noise spectrum prediction software enables ultra low noise solutions.
- In-house computational fluid mechanics software enables specific performance achievement.
- Rapid high quality manufacture, components are machined from solid.

DISCRIMINATORS
- Pump Technology have over 25 years of submarine servicing experience.
- Pump Technology have pumps specifically for submarine service.
- Our submarine pumps are the quietest in the world

KEY CUSTOMERS
- RAN/ASC
- Orica, CSBP Westfarmers
- Huntsman, Australian Vinyls
- Minara Resources, Ambatovy

QUALITY APPROVALS & AWARDS
- ISO 9001 as audited by ASC.
- Working towards accreditation
**QINETIQ AUSTRALIA**
www.QinetiQ.com.au

George McGuire  
General Manager Land & Maritime  
QinetiQ Pty Ltd  
Level 3, 210 Kings Way, South Melbourne VIC 3205  
Tel: +61 1800 038 081  
Email: QinetiQ@QinetiQ.com.au

**CAPABILITIES**
- Submarine Escape, Survival and Atmospheres  
- Stealth Services: Design, Analysis, Testing and Monitoring of signatures to increase operational effectiveness  
- Naval Architecture including Paramarine and SURWEL software  
- Integrated Logistics Support - framework analysis and optimisation  
- Project Management services within an Asset Management Framework  
- Weapons & Explosive Ordnance Engineering  
- FEA and CFD structural design and analysis  
- Access to 16 UK sites, including Europe’s largest indoor hydrodynamic test facilities (Ocean Basin)

**DISCRIMINATORS**
- Independent specialist technical advice  
- Authorised Engineering Organisation  
- Affordable, agile and flexible  
- International reach through UK and US businesses  
- Comfortable as Prime or sub-contractor within industry consortia - a true partnership approach  
- Extensive experience in all phases of the capability development life cycle - from needs analysis to disposal

**KEY PARTNERS**
- QinetiQ Group plc  
- OptaSense  
- Cyveillance

**KEY CUSTOMERS**
- Capability Acquisition and Sustainment Group  
- Defence Science and Technology Group  
- Royal Australian Navy  
- Australian Maritime College

**QUALITY APPROVALS & AWARDS**
- 2015 DMO/Industry Award for Minor Sustainment  
- 2015 AIDN-ACT Young Achiever of the Year Award  
- 2015 Defence Teaming Centre Employer of Choice Finalist

---

**QUARTEK PTY LTD**
www.quartek.com.au

Matthew Goldstraw  
Managing Director  
Quartek Pty Ltd ATF The Quartek Unit Trust  
700 Bourke St, Docklands VIC 3008  
Tel: +61 (0)449 264 289  
Email: matthew.goldstraw@quartek.com.au

**CAPABILITIES**
- Finite Element Analysis - linear static, dynamic, thermal & buckling, as well as non-linear analysis.  
- Structural Analysis - Classical stress analysis, both metallic and composite structures.  
- Fatigue & Damage Tolerance Analysis - crack growth, through life support, fatigue stress & life prediction.  
- Repairs - design & substantiation of both metallic and composite solutions.

**DISCRIMINATORS**
- Wholly owned and operated Australian company. Team consists of experienced engineers, highly regarded by industry leaders.  
- Team has experience working with Global Primes, Tier 1 Suppliers, SME’s & Defence both locally and internationally  
- Tailored Customer Engagement models to suit requirements.  
- Lean company culture and operations.

**KEY PARTNERS**
- AIDN  
- Bristol Aero

**KEY CUSTOMERS**
- Airbus Americas Engineering  
- QuEST Global Engineering  
- Airbus Group Australia Pacific

**QUALITY APPROVALS & AWARDS**
- ISO 9001:2008
REALM - SOLUTIONS FOR THE FUTURE
www.realmsolution.com.au
Jeff Walsh
Principal
REALM Solutions (SA) Pty Ltd
2/43 Westbury St, St Kilda VIC 3182
Tel: +61 (0)421 685 327
Email: jwalsh@realmsolution.com.au

CAPABILITIES
• Quality, Safety and Business System review, compliance audit & training
• Systems definition, design, review and requirements management
• Upgrade, acquisition, support, test & acceptance, and introduction into service
• Specialty Engineering for Maintainability, Reliability, Availability, Compatibility & Productivity

DISCRIMINATORS
• Specialist Vibro-Acoustic Applications - with state-of-the-art Instrumentation, Data Acquisition & Analysis
• Demonstrated Capability in Asset Condition Monitoring, Structural-Fatigue Life, & Reliability Centered Maintenance
• Demonstrated Track Record in Defence & Secure Buildings, Infrastructure & Support Systems - Design & Delivery
• Experienced in Design & Delivery of C4ISR on Communications, Radar, Security & Electronic Warfare sub-systems

SUBMARINE CAPABILITY AREAS

| KEY PARTNERS |
|-------------------|-------------------|
| Resonate Systems Pty Ltd |
| KneeDeep Training RTD |
| AOC International - Electronic Warfare |
| STM Consulting / InterConnect Communications |

KEY CUSTOMERS
• BAE Systems
• DST Group
• RAFF
• ASC

QUALITY APPROVALS & AWARDS
• ISO9001 Quality Auditor
• Pre-qualified in Project Management
• Pre-qualified in Training & Assessment
• Pre-qualified in Submarine Design & Engineering Technology

REDSTACK
www.redstack.com.au
Marcel LeToille
Victoria State Manager
Redstack Pty Ltd
L1, 407 Blackburn Road, Mt Waverley VIC 3149
Tel: +61 1300 667 263
Email: solutions@redstack.com.au

CAPABILITIES
• CAD Software, support and training
• Data Management Services
• Design process automation
• BIM (Building Information Modeling)
• FEA / Simulation software and training
• UAV and aerial data capture sales and services
• 3D scanning sales and services
• 3D printing sales and services

DISCRIMINATORS
• Autodesk Gold Partner
• Global resources with local service
• 20 years experience supplying defence industry
• Highly responsive service

KEY PARTNERS
• Autodesk
• MakerBot and Ultimaker
• Apple
• Avitus

KEY CUSTOMERS
• BAE Systems
• DST Group
• RAFF
• ASC

SUBMARINE CAPABILITY AREAS

<table>
<thead>
<tr>
<th>SUBMARINE CAPABILITY AREAS</th>
<th>KEY PARTNERS</th>
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<td>Communication Systems</td>
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<td>Fuel Systems</td>
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<td>Heating, Ventilation &amp; Air-conditioning</td>
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<td>Propulsion Systems</td>
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<td>Signature Management</td>
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<td>Through Life Support</td>
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<td>Training Services</td>
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QUALITY APPROVALS & AWARDS
• ISO9001 Quality Auditor
• Pre-qualified in Project Management
• Pre-qualified in Training & Assessment
• Pre-qualified in Submarine Design & Engineering Technology
CAPABILITIES

- CNC gear cutting of spur and helical gears
- CNC gear grinding of spur and helical gears
- CNC gear metrology
- CNC rack milling
- Bevel gear cutting
- Complete in house machining capability (turning, milling & grinding)
- Automated CNC gear cutting for production runs

DISCRIMINATORS

- Australia’s only AS9100C accredited gear manufacturer
- Proven track record into defence programs
- 60 years experience in the gearing industry
- Members of the American Gear Manufacturers Association and Eurotrans, Europe’s gear association
- Ability to manufacture to high quality standards (AGMA 2000: 12+)

KEY CUSTOMERS

- BAE Systems
- Marand Precision
- Ferra Engineering

QUALITY APPROVALS & AWARDS

- AS9100C
- ISO9001:2008
- BAE Systems approved supplier
- Significant Achievement Award 2013

SUBMARINE CAPABILITY AREAS

- Metal Fabrication
RUAG AUSTRALIA
www.ruag.com.au
Paul Pingnam
Director
RUAG Australia Pty Ltd
836 Mountain Highway, Bayswater VIC 3153
Tel: +61 3 9721 1300
Email: paul.pingnam@ruag.com

CAPABILITIES
• Precision manufacturing of complex aerospace components to tolerances down to 5 millionths of an inch
• Repair and overhaul of electro-hydraulic flight control, environmental control and undercarriage systems
• Design, development, implementation and certification of repair schemes and test equipment
• World leading research, development and commercialisation of additive manufacturing and other repair technologies
• Surface treatment and finishing of aluminium and titanium aircraft structural components up to 14.8 feet

DISCRIMINATORS
• ‘One stop shop’ for aircraft mechanical, hydraulic and airframe component manufacture and support
• Innovative solutions leading to higher reliability, increased availability and reduced life cycle costs
• Ready and easy access to relevant and complementary skills and expertise within the entire RUAG Group

KEY CUSTOMERS
• Royal Australian Air Force
• Royal Australian Navy
• Royal Malaysian Air Force
• United States Navy

QUALITY APPROVALS & AWARDS
• AS9100C
• DGT A Approved Maintenance Organisation (AMO)
• DGT A Authorised Engineering Organisation (AEO)
• NADCAP Chem. Processing, NDT, Shotpeen, Paint

RUYCO HYDRAULICS
www.RYCO.com.au
Ian Morris
General Manager - Sales
RYCO Hydraulics Pty Ltd
19 Whitehall St. Footscray VIC 3011
Tel: +61 3 9680 8000
Email: ian.morris@ryco.com.au

CAPABILITIES
• Manufacturer of high pressure hydraulic hose, hose couplings and adaptors
• Full research & development capabilities
• High pressure internal hydraulic hose impulse pressure testing exceeding ISO and industry standards
• External hydraulic hose pressure testing simulating harsh deep sea environments
• Age testing
• Salt spray corrosion testing
• Hydrostatic pressure testing up to 4,150 bar (60,000 PSI)
• Global operations with full sales and service support

DISCRIMINATORS
• Over 20 years proven track record as an approved supplier to the ASC and Department of Defence.
• Third party marine product type approvals maintained with DNV-GL, ABS, MED, LR and KR
• Industry leading R&D division with capability to undertake prototype development
• Approved training programs available in-house and on-site

KEY CUSTOMERS
• ASC Pty Ltd
• Thales Australia
• Department of Defence
• BHP Billiton

QUALITY APPROVALS & AWARDS
• ISO 9001 - Quality Management Systems
• OHSAS 18001 - Occupational Health and Safety
• ISO 14001 - Environmental Management Systems
• DNV-GL, ABS, LR, MED, KR

SUBMARINE CAPABILITY AREAS
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</table>
SELEX ES AUSTRALIA PTY LTD
www.selex-es.com
Julian Day
VP Sales & Business Development
Selex ES Australia Pty Ltd
19 Rocklea Drive, Port Melbourne VIC 3207
Tel: +61 3 9698 0426
Email: julian.day@selex-es.com.au

CAPABILITIES
- Systems Engineering including design, development & integration
- Complex Project/ Program Management & ILS
- An International supplier of Electronic & Information Technologies for Defence Systems
- Sub-Contract Management
- Fully Integrated Communication Systems (FICS) and Sub-systems

KEY CUSTOMERS
- Australian Defence Force
- United Kingdom Ministry of Defence
- Ministero Della Difesa (Italy)
- Fincantieri / OGS (Italian FREMM Project)
- DRS Canada (Part of Finmeccanica Group)
- RF Products & Rockwell Collins (ANZAC Commits)

QUALITY APPROVALS & AWARDS
- ISO 9001
- ISO 14001
- DISC

SHADBOLT ENGINEERING PTY LTD
www.shadbolt.com.au
John Wardell
Business Development Manager
Shadbolt Engineering Pty Ltd
5-7 Apollo Drive, Hallam VIC 3803
Tel: +61 3 9702 4200
Email: john.wardell@shadbolt.com.au

CAPABILITIES
- Contract Maintenance and Shut Down Expertise
- Sophisticated Assembly & Commissioning
- In House Specialist Welding Technology
- Site Installation & Maintenance
- End to End Project Management - in-house and on-site.

DISCRIMINATORS
- Part of the Finmeccanica group of Companies
- Staff cleared to “Australian Secret”
- Full Member of the Defence Industrial Security Program (DISP)
- Melbourne Facility is certified to hold and produce material up to “Australian Secret”

KEY PARTNERS
- Fincantieri / OGS (Italian FREMM Project)
- DRS Canada (Part of Finmeccanica Group)
- WASS (Part of Finmeccanica Group)
- RF Products & Rockwell Collins (ANZAC Commits)

KEY CUSTOMERS
- BAE Systems TISSC
- ADIN
- Navantia
- Defence Industry Innovation Centre (SCIP)

QUALITY APPROVALS & AWARDS
- AS/NZS ISO 9001-2008
- SCC21(Supplier Continuous Improvement Program)
SIEMENS

Andrew Seal
Head of Defence/Marine
Siemens Ltd
895 Mountain Highway, Bayswater VIC 3153
Tel: +61 3 9721 7554
Email: andrew.seal@siemens.com

SIMUSERV
www.simuserv.com

Gerd Diegelmann
Managing Director
Simuserv Pty Ltd
L 1/123 Camberwell Rd, East Hawthorn VIC 3123
Tel: +61 3 9889 5615
Email: gerd.diegelmann@simuserv.com

SIEMENS

CAPABILITIES
- Simatic S7/PCS7 Platform Automation Fully Integrated Systems for surface and subsurface vessels
- Hybrid/Diesel Electric Propulsion Solutions for surface and subsurface vessels
- Ships electrical networks and management systems for surface and subsurface vessels (LV/MV/HV)
- Submarine Air Independent Propulsion solutions (PE Fuel Cells)

DISCRIMINATORS
- Permasyn Submarine Propulsion Motor, operational since 2000 with 20 boats commissioned.
- PEM fuel cell operational since 2004
- eSiPOD Electrical Podded Propulsion as fitted to Canberra Class LHDs
- 170 submarines contracted since 1960, in excess of 100 boat systems in operation
- Fully integrated electronic BDCS (Battle Damage Control Systems) in operation with the RNZN

KEY PARTNERS
- TKMS
- MTU
- DST Group
- Royal New Zealand Navy

KEY CUSTOMERS
- TKMS
- Royal New Zealand Navy
- Navantia
- Austal

QUALITY APPROVALS & AWARDS
- ISO9001
- AION Member

SIMUSERV

CAPABILITIES
- Supply & support a scalable portfolio of realistic simulation solutions from the “SIMULIA Abaqus” product suite
- Multiphysics solutions for insight into challenging engineering problems & life cycle management solutions
- Consulting services in the field of Computer Aided Engineering (CAE) & structural Finite Element Analysis (FEA)
- Solving unusual & complex problems, successful delivery on projects that were previously considered extreme

DISCRIMINATORS
- Established in 2002, Australian & New Zealand partner for the Dassault Systemes SIMULIA brand and Abaqus solution
- All our staff are highly qualified totalling over 80 years of technical experience in simulation consulting
- Capable of small consulting projects through to management of large on-site programmes involving teams of analysts
- We understand simulation is most effective when considered as an integral part of the design & problem resolution

KEY PARTNERS
- Dassault Systemes

KEY CUSTOMERS
- Australian Defence Force Academy (ADFA)
- ANSTO and CSIRO
- DSTO
- Land Engineering Agency (OMO)

PERMASYN

- Permasyn Submarine Propulsion Motor, operational since 2000 with 20 boats commissioned.
- PEM fuel cell operational since 2004
- eSiPOD Electrical Podded Propulsion as fitted to Canberra Class LHDs
- 170 submarines contracted since 1960, in excess of 100 boat systems in operation
- Fully integrated electronic BDCS (Battle Damage Control Systems) in operation with the RNZN

ISO9001
- AION Member
CAPABILITIES

- Engineering Services Provider, Specialising in FEA and CFD Simulation
- Finite Element Analysis FEA - ANSYS Linear and Non-Linear Static, and Transient Structural Stress Analysis
- Computational Fluid Dynamics - ANSYS CFX/FLUENT
- Multiple Domain, RANS Steady State and Transient Fluid Analysis
- Pressure vessel design and drafting services.

DISCRIMINATORS

- Niche provider with specialist expertise in high pressure vessel design and FEA.
- Successful Full Ocean Depth component design - James Cameron’s Deep Sea Challenger - Mariana Trench 2012
- Niche provider with specialist expertise and experience in scale CFD simulation of sub-sea vehicles and components

KEY CUSTOMERS

- BV - Bureau Veritas
- BMT Group
- RADS - Ron Allum Deep Sea Services

QUALITY APPROVALS & AWARDS

- Working Towards ISO 9001

SUBMARINE CAPABILITY AREAS

<table>
<thead>
<tr>
<th>Area</th>
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<tbody>
<tr>
<td>Fluid Systems</td>
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<tr>
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<td>✔</td>
</tr>
<tr>
<td>Research &amp; Development</td>
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</tbody>
</table>

SIX DEGREES OF FREEDOM

Rob Mitchell  
Director  
Six Degrees Of Freedom ATF The Mitchell Cumulus  
102 Hoffmans Rd, Essendon VIC 3040  
Tel: +61 9 (0)404 078 563  
Email: robsixdegreesoffreedom.com.au

SKF AUSTRALIA PTY LTD

Vinu Kumar  
Contracts Manager  
SKF Australia Pty Ltd  
17-21, Stamford Road, Oakleigh VIC 3166  
Tel: +61 3 9269 0820  
Email: Vinu.Kumar@Skf.com

CAPABILITIES

- Design And Manufacturing Of Bearing And Bearing Accessories
- Lubrication Systems
- Mechatronics Products
- Static And Dynamic Seals
- Engineering Services
- Power Transmission Products

DISCRIMINATORS

- Supplier To Australian Defence
- ITAR Compliant
- DMO (LORS) Recognised Supplier
- Global Maritime Supplier

KEY CUSTOMERS

- SKF AB, SWEDEN

QUALITY APPROVALS & AWARDS

- ISO9001 AS9100
- SIX SIGMA CULTURE

SUBLRINE CAPABILITY AREAS

<table>
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</table>
SRX
www.srxglobal.com
Sam Papadopoulos
Business Development Manager
Srxglobal Pty Ltd (Australia)
8-10 Kitchen Rd, Dandenong VIC 3175
Tel:  +61 3 9212 4222
Email: sam.papadopoulos@srxglobal.com

CAPABILITIES
• Provider of Electronic Manufacturing Services
• PCB assembler Box Build assembler
• Environmental test capabilities
• Conformal coating
• Rack Wiring and assembly

DISCRIMINATORS
• SRXglobal is the largest electronics contract manufacture in Australia
• Manufacturing sites in Australia and Malaysia
• Rapid prototyping facilities
• Tier-1 EMS operational excellence in complex, high-mix, low to medium volume manufacturing

KEY PARTNERS
• Hydrix
• Planet Innovation
• Procept
• Valor

QUALITY APPROVALS & AWARDS
• ISO9001 , ISO13485, ISO14001
• Victorian Larger Manufacturing Winner 2014
• Itar training
• Build to IPC Class 1-2-3

STUG AUSTRALIA PTY LTD
www.stug.com
Brett Hayes
Business Development
Stug Australia Pty Ltd
1457 Centre Rd, Clayton VIC 3168
Tel:  +61 3 9543 5044
Email: brett@stug.com

CAPABILITIES
• Custom manufacture of precision mechanical components and assemblies
• Specialize in Thermoplastics, Fluoropolymers, Thermosets, Aluminium and Stainless Steels
• Full manual and CNC capabilities
• Build to print, CAD file or Reverse Engineer from sample

DISCRIMINATORS
• Recognized as the leading Australian manufacturer of precision machined parts in engineering plastics
• Multiple long term supplier relationships with leading global companies based on quality and deliverables
• Support for material selection
• Fluoropolymer PTFE and PEEK materials custom formulation solutions
• Prototype, low and high volume manufacturing

KEY PARTNERS
• Quadrant EPP - USA - Europe
• Rohchling - Germany

QUALITY APPROVALS & AWARDS
• ISO 9001

SRX
www.srxglobal.com
Sam Papadopoulos
Business Development Manager
Srxglobal Pty Ltd (Australia)
8-10 Kitchen Rd, Dandenong VIC 3175
Tel:  +61 3 9212 4222
Email: sam.papadopoulos@srxglobal.com

CAPABILITIES
• Provider of Electronic Manufacturing Services
• PCB assembler Box Build assembler
• Environmental test capabilities
• Conformal coating
• Rack Wiring and assembly

DISCRIMINATORS
• SRXglobal is the largest electronics contract manufacture in Australia
• Manufacturing sites in Australia and Malaysia
• Rapid prototyping facilities
• Tier-1 EMS operational excellence in complex, high-mix, low to medium volume manufacturing

KEY PARTNERS
• Hydrix
• Planet Innovation
• Procept
• Valor

QUALITY APPROVALS & AWARDS
• ISO9001 , ISO13485, ISO14001
• Victorian Larger Manufacturing Winner 2014
• Itar training
• Build to IPC Class 1-2-3

STUG AUSTRALIA PTY LTD
www.stug.com
Brett Hayes
Business Development
Stug Australia Pty Ltd
1457 Centre Rd, Clayton VIC 3168
Tel:  +61 3 9543 5044
Email: brett@stug.com

CAPABILITIES
• Custom manufacture of precision mechanical components and assemblies
• Specialize in Thermoplastics, Fluoropolymers, Thermosets, Aluminium and Stainless Steels
• Full manual and CNC capabilities
• Build to print, CAD file or Reverse Engineer from sample

DISCRIMINATORS
• Recognized as the leading Australian manufacturer of precision machined parts in engineering plastics
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QUALITY APPROVALS & AWARDS
• ISO 9001
SYPAQ SYSTEMS
www.sypaq.com.au
Amanda Holt
CEO
SYPAQ Systems Pty Ltd
Level 5, 441 St Kilda Rd, Melbourne VIC 3004
Tel: +61 3 9867 2565
Email: aholt@sypaq.com.au

CAPABILITIES
- Oxygen generation: Integrated Low Pressure Electrolyzer (ILPE) and PEM Electrolysis Cell stack
- Atmosphere monitoring: Central Atmosphere Monitoring Systems (CAMS IIA) - monitors for 24 compounds
- Advanced CO2 Removal Unit
- Electrolytic Chlorine Generator
- Fuel Cell Power Modules for Air Independent Propulsion (AIP) Submarines
- Fuel Cell Power Systems for Unmanned Undersea Vehicles (UUVs) and Unmanned Aerial Vehicles (UAVs)
- Specialist Engineering, Project Management, Logistics and C4ISR consulting services
- Proven provider of submarine combat and communication systems integration services

DISCRIMINATORS
- Australian representative for UTC Aerospace Systems (UTAS)
- Oxygen Generator operational on USN Virginia Class and planned for Ohio Replacement Class
- Atmospheric monitoring operational on all USN submarines and planned for Ohio Replacement
- CO2 removal products planned for USN Ohio Replacement
- Chlorine Generation currently operational on USN

SYPAQ SYSTEMS
www.sypaq.com.au
Amanda Holt
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<th>SERVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Technologies</td>
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<tr>
<td>Communication Systems</td>
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<td>✔</td>
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<tr>
<td>Heating, Ventilation &amp; Air-conditioning</td>
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<td>✔</td>
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<td>Design &amp; Engineering</td>
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<tr>
<td>Modeling &amp; Simulation</td>
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<td>Professional Services</td>
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</tr>
<tr>
<td>Training Services</td>
<td>✔</td>
<td>✔</td>
</tr>
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</table>

KEY CUSTOMERS
- Department of Defence (CASG) & RAN
- Major UTAS customers:
  - GD Electric Boat, Newport Shipbuilding, BAE
  - US Navy, UK Navy, Spanish Navy
- Many defence contractors use us regularly
- DOD have used us on many occasions
- We deliver anywhere in Australia within 24 hrs
- Railhead contract for Defence calibration

TECH RENTALS PTY LTD
www.techrentals.com.au
Tony Morley
Business Development Executive
TR Pty Ltd
18 Joseph Street, Blackburn North VIC 3130
Tel: +61 3 9896 3071
Email: tony.morley@techrentals.com.au

CAPABILITIES
- Tech Rentals have a full range of test and measurement equipment that is NATA certified
- Our equipment is available Australia wide within 24 to 48 hours depending on location
- Our range covers all areas of industry from communication electronics to HVAC systems, to Physical Measurement and Vibration analysis, Non destructive Inspection, Thermal measurement cameras

DISCRIMINATORS
- We have world leading test and measurement equipment for rent on short or long term basis
- We have full engineering support to train and help customers in the field with advice
- Our asset management system is compliant with ISO 5001
- We can deliver anywhere in Australia within 24 hours

KEY PARTNERS
- Suppliers: Fluke, Megger, Anritsu, Keysight,
- Suppliers: Omicron, HP, GE, Olympus

QUALITY APPROVALS & AWARDS
- ISO 9001:2008 Certified by Lloyd’s Registry
- Member, Defence Industrial Security Program
- Many defence contractors use us regularly
- DOD have used us on many occasions
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- Railhead contract for Defence calibration

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THE PAC GROUP
www.pacgroup.com

Stephen Martin
Business Development Manager
PAC Project Advisors Pty. Ltd
Unit 4, 95 Salmon St, Port Melbourne VIC 3207
Tel: +61 3 9645 6625
Email: stephen.martin@pacgroup.com

CAPABILITIES
• Vehicle Engineering Design & Development
• Project Management
• Technical Documentation
• Manufacturing Engineering
• Process Design and Optimisation
• Supplier Management & Improvement
• Product Development
• Global Sourcing

DISCRIMINATORS
• Defence knowledge and experience.
• Extensive experience in vehicle manufacture of all types
  including defence.
• Access to world wide support
• Demonstrated client focus delivers value for money with
  on time delivery.
• A demonstrated record of delivering diversified engineering
  & integration advisory services to a high level.

KEY PARTNERS
• The PAC Group - Worldwide

KEY CUSTOMERS
• MMG Limited
• Toyota Motor Company
• General Motors Australia
• Thales - Bushmaster

QUALITY APPROVALS & AWARDS
• ISO 9001

SUBMARINE CAPABILITY AREAS

<table>
<thead>
<tr>
<th>PROS</th>
<th>CONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propulsion Systems</td>
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<tr>
<td>Design &amp; Engineering</td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td></td>
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<tr>
<td>Safety Systems</td>
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<tr>
<td>Through Life Support</td>
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<tr>
<td>Training Services</td>
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</table>

TR VMS
www.trvms.com.au

David Brady
Sales Engineer
VMS International Pty Ltd
18 Joseph Street, Blackburn North VIC 3130
Tel: +61 (0)3 432 751 191
Email: david.brady@trvms.com.au

CAPABILITIES
• Approved Australian agent - Service and distribution of
  GE Measurement and Control, Pressure and Aerospace
  products
• Approved Australian agent for Service and distribution of
  Barfield Aviation Ground Support Test Equipment
• Service of GEC Aircraft / Truck Scales, Megger Electrical &
  Stahlwille Torque Products, and other test equipment
• Rental of Test Equipment from Tech Rentals, and rental of
  communications equipment from TR Hirecom

DISCRIMINATORS
• Long history of support to Defense, Aerospace, and Major
  Defense Contractors
• Currently providing calibrations to Defense Prime for
  support of Australian Defense Force
• Proven track record - continuously better than 98% of items
  returned within agreed turnaround time to Defense Prime
• Nata accredited ISO17025 scope in many areas of
  measurement

KEY CUSTOMERS
• Raytheon Australia, Calibration and Repair
• TAE, Calibration and Repair of Test Equipment
• Airbus, Calibration and Repair
• BAE, Calibration and Repair

QUALITY APPROVALS & AWARDS
• ISO9001 Quality Management System
• ISO17025, for the competence of Testing Labs

SUBMARINE CAPABILITY AREAS

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<tr>
<td>Tooling</td>
<td></td>
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</table>
UNEEK BENDING CO PTY LTD
www.uneek.com.au
Teddy Oudin
Sales
Uneek Bending Co Pty Ltd
63 Mark Anthony Drive, Dandenong South VIC 3175
Tel: +61 3 9771 4900
Email: sales@uneek.com.au

CAPABILITIES
- CNC Mandrel Bending from 3mm Dia to 200 Nb Pipe
- CNC Mandrel Rolling from 3mm Dia to 300 Nb including
- Qualified welding of all types of materials including Carbon Steel, Aluminium, Titanium, Inconel, Stainless Steel.
- 14 CNC Mandrel Bending machines and a large variety of tooling to match.
- Robotic Welding & Robotic deburring, CMM Measuring M/C

DISCRIMINATORS
- State of the Art Facility
- 50 Years experience
- Specialist in CNC Bending
- Defence Recognised supplier
- Prototype to high volume manufacture

KEY CUSTOMERS
- Thales
- BAE
- Alstom
- Siemens

QUALITY APPROVALS & AWARDS
- ISO 9001:2008
- ISO 14001:2004
- ISO 18001:2007

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<tr>
<td>Design &amp; Engineering</td>
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<tr>
<td>Metal Fabrication</td>
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<tr>
<td>Outfitting &amp; Raw Material</td>
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<tr>
<td>Research &amp; Development</td>
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</table>

UVS PTY LTD
www.uvs.com.au
Jennylee Taylor
General Manager
UVS Pty Ltd
9 Macquarie Place, Boronia VIC 3155
Tel: +61 (0)422 310 998
Email: jenny.taylor@uv.com.au

CAPABILITIES
- Pressure Testing to 150, 300, 2000 m
- Electrical Systems systems engineering
- Specialised underwater cable manufacture
- Repair and maintenance of subsea equipment

DISCRIMINATORS
- Represent over 50 companies for supply of subsea equipment including cameras, sonars, sensors. Refer website
- Australian support partner for OEM products (repair and maintenance)
- Proj Mgt and Technical staff have Australian Security Clearances

KEY CUSTOMERS
- Thales Maritime - Underwater cameras and so
- Seacon Group - Underwater connectors and cabli
- Thales Maritime - (REMUS AUVs)
- Teledyne Group (Fisk, BlueView, Benthos, ODOM)

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<td>Signature Management</td>
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QUALITY APPROVALS & AWARDS
- ISO 9001:2008 (SAI Global)
**VERSLUX**

www.verslux.com.au

Bruno Campisi
Business Development - Maritime & Defence
Versalux Pty Ltd
28 Edgerton Road, Mitcham VIC 3132
Tel: +61 3 8878 2000
Email: bcampisi@verslux.com.au

**CAPABILITIES**

- Innovative LED Lighting Solutions for the whole of ship
- Conventional and LED Lighting to Maritime, Navy and Military Standards
- Internal Lighting - Cabins, Mess, Stores, Offices, Passageways, Machine Rooms, Magazines, Emergency Lighting
- External Lighting - Walkways, Flood Lights, Dress Lights, Navigation Lights, Signaling & Search Lights

- Expert Lighting Engineers & Designers satisfying the most demanding specifications and lighting requirements
- 3D Lighting Design Service
- Installation and Through-life Support, including Obsolescence Management

**DISCRIMINATORS**

- Proven track record of supply of complete ship sets to major platforms; Anzac Class Frigates & Hobart Class AWD
- An Australian market leader in lighting solutions for applications in the naval environment
- Accredited Supplier of DMO and Defence Primes
- Deep knowledge in Australian, International and Maritime Standards & Regulations including NATO & Lloyd

**KEY CUSTOMERS**

- Glamox Aqua Signal
- Siemens

**QUALITY APPROVALS & AWARDS**

- Defence Recognised Supplier
- Authorised OEM for ISO9001 Manufacturers

---

**WAY OUT EVACUATION SYSTEMS**

www.wayout.com.au

Cassandra Sullivan
General Manager
Way Out Evacuation Systems Pty Ltd
PO Box 250 Brighton VIC 3186
Tel: +61 1800 WAY OUT
Email: cassandra@wayout.com.au

**CAPABILITIES**

- Low Location Lighting: designed for red light mode, ANEP-77, SOLAS, IMO, NSC compliant; 25 yr warranty
- Signage: all types; Safety/Regulatory, Wayfinding, ID, Prome; Photoluminescent, vitreous enamel, engraved, etc.
- Stair nosings: standard, luminous, LED, anti slip crystal
- Slip Resistant Crystal Coatings: robust, resilient, colour matched; used for surfaces, line markings
- Safety railing: anti slip; wide range of materials, sizes, thicknesses; standard, luminous, LED

**DISCRIMINATORS**

- Products designed for red light mode: low location lighting and signage, etc.
- Luminous ink "Lumink": outlasts and outperforms any alternative photoluminescent technology
- Printing onto virtually any substrate
- Robust and resilient products; e.g. 25 year warranties
- Customised manufacturing to suit application

**KEY PARTNERS**

- Sakerhetepartner
- On The Edge Stairnosing
- Parken Engineering
- Material Solutions Australia

**QUALITY APPROVALS & AWARDS**

- ISO 9001: 2008 LRQA
- Victorian Manufacturing Awards Finalist 2015
- LoRS; DoD Codification Z2K90
- Founding member of AIDN

---

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Versalux Pty Ltd
28 Edgerton Road, Mitcham VIC 3132
Tel: +61 3 8878 2000
Email: bcampisi@verslux.com.au

**CAPABILITIES**

- Electrical Systems
- Design & Engineering
- Through Life Support

**DISCRIMINATORS**

- Proven design and engineering partnership credentials
- In country stores, assembly, manufacture and competencies for OEM Lighting Solutions
- Authorised Distributor and OEM for Glamox Aqua Signal

**KEY CUSTOMERS**

- CASS
- ASC, BAE Systems
- ASC AWD, Navantia
- Thales

**QUALITY APPROVALS & AWARDS**

- Defence Recognised Supplier
- Authorised OEM for ISO9001 Manufacturers

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www.wayout.com.au

Cassandra Sullivan
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Way Out Evacuation Systems Pty Ltd
PO Box 250 Brighton VIC 3186
Tel: +61 1800 WAY OUT
Email: cassandra@wayout.com.au

**CAPABILITIES**

- Risk Management & Contingency Planning Platform: scalable, graphical interface, control/manage key data & processes
- Consulting and Auditing: Safety, Regulatory & Compliance
- Industrial Tapes: exhaustive range

**DISCRIMINATORS**

- Proven track record in Defence platforms: supply of every warship in Australia
- Australian based manufacturing
- Environmentally friendly, non-toxic products

**KEY CUSTOMERS**

- CASG (DMO)/DoD including Collins class subs
- BAE Systems
- TT Line Co Pty Ltd - Spirit of Tasmania Ships
- RAF, United Kingdom

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- Founding member of AIDN
YTEK
www.ytek.com.au
Richard Yanieri
Managing Director
YTEK Pty Ltd
L1, 231B High St, Ashburton VIC
Tel: +61 (0)419 027 128
Email: info@ytek.com.au

CAPABILITIES
- Marine computational fluid dynamics (CFD)
- High Performance Computing (HPC) for engineering simulation
- Software development for advanced engineering applications
- Developer of the HALCYON CFD software

DISCRIMINATORS
- Extensive industry experience
- Specialist expertise in HPC and CFD
- Independent R&D
- 20 Yr Defence experience track record
- DISP accredited

KEY PARTNERS
- SGI
- Deakin Uni CISR

KEY CUSTOMERS
- DST Group
- RPDE

QUALITY APPROVALS & AWARDS
- Vic Gov Tech Innovation Voucher 2015

SUBMARINE CAPABILITY AREAS

<table>
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<tr>
<th>Category</th>
<th>Custom</th>
<th>Core</th>
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<tr>
<td>Design &amp; Engineering</td>
<td>✔</td>
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<tr>
<td>Modeling &amp; Simulation</td>
<td>✔</td>
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<td>Professional Services</td>
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<td>Research &amp; Development</td>
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<tr>
<td>Signature Management</td>
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Credits & Acknowledgements

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Number 11 Squadron started the new year with a series of Passage Exercises (PASSEX) in conjunction with the Royal Australian Navy.