



**VICTORIAN
DEFENCE
ALLIANCE**
SUBMARINES



FRONT COVER IMAGE

Collins Class Submarines, HMAS Collins, HMAS Farncomb, HMAS Dechaineux and HMAS Sheean in formation.

Chair's Foreword

Our submarine industry is now entering a time of significant opportunity as SEA 1000 and the Collins Class Service Life Extension projects continue to progress. This presents many excellent opportunities for Victoria's defence industry sector with its many small to medium enterprises. These companies stand ready to play a vital role in the supply chains supporting submarine programs and the on-going sustainment of the Collins Class.

An important and enduring part of our contribution to the national submarine industry has been the strength of our small to medium enterprises whose capabilities cover the full gamut of those required to meet the demands of domestic and international submarine industry supply chain customers. The foundation of Victoria's future in the submarine industry lies in the proven ability of these companies to be respected and reliable supply chain partners.

The Victorian Defence Alliance – Submarines supports industry in Victoria to win work in the domestic and international submarine industry supply chains. We present a single point of focus for the State's submarine construction and sustainment industries. Importantly, we provide streamlined and effective arrangements for connecting our members with industry Primes and key Government stakeholders.

The Alliance works in partnership with the Victorian Government and the Australian Defence Alliance - Victoria. Membership is open to all companies in Victoria operating in the submarine construction and sustainment supply chains.

This Directory presents the capabilities of companies in the Victorian submarine construction and sustainment supply chains and I thank the Victorian Government for their support of its production.

I invite those seeking proven and trusted supply chain partners for submarine construction and sustainment work to consider the capabilities of the companies presented in this Directory.



Jürgen Schneider

Chair

Victorian Defence Alliance - Submarines

HMAS COLLINS

Rear Admiral Olivier Lebas of the French Navy is winched on board HMAS Collins. The submarine took part in exercise La Perouse in June 2019.

Victorian Defence Alliance - Submarines Committee



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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.

A photograph showing a maritime helicopter (MRH-90) hovering over the deck of a submarine (HMAS Collins). Three crew members in camouflage uniforms and safety harnesses are positioned on the deck, looking up at the helicopter. The submarine's hull is visible on the left, and the ocean extends to the horizon under a clear sky. A large, semi-transparent blue diagonal graphic is overlaid on the image.

PERSONNEL TRANSFER

A team of Royal Australian Navy submariners on board HMAS Collins await a winch from an MRH-90 Maritime Support Helicopter during a personnel transfer.

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Victorian Defence Alliances

The Victorian Defence Alliances have been established through a partnership between the Government of Victoria and the Australian Defence Alliance (Vic). Membership of the Alliances is open to all companies operating in Victoria with the potential to supply products, systems and services to the national and international defence industry market.

The Alliances bring focus, cohesion and unity to the actions and initiatives of companies with a shared and common purpose in specific domains of Victoria's defence industry sector. They allow member companies to act together to deliver timely, cost effective and innovative solutions to meet Defence needs.

The Alliances support industry through advocacy, networking, collaboration, mentoring and capability building to assist member companies to win work in national and international defence industry supply chains. Importantly, the Alliances provide effective pathways for connecting Alliance members with industry primes and key government stakeholders.





AUSTRALIAN DEFENCE ALLIANCE-VIC

Australian Defence Alliance (Vic) – (ADA Vic)

Champions the cause of Victoria's SMEs in Defence industry

The Australian Defence Alliance (Vic) – (ADA Vic) is the Nation's largest singular, professional body advocating of behalf of, and providing strategic and policy guidance into, Victoria's dynamic base of small and medium dual-use and defence industry companies. ADA Vic assists its' Members to capitalise on opportunities provided across Australian and Global defence/security markets through the formation of strategic partnerships and collaboration nationally.

Victorian Defence Alliances

ADA Vic, in partnership with the Victorian Government, has established five Victorian Defence Alliances including the Submarines Alliance. The other Alliances are: VDA-Aerospace, VDA-Digital, VDA-Maritime and VDA-Land Systems. The Alliances act as a catalyst through advocacy, networking, collaboration and mentoring to assist member companies to bid for work in national and global defence industry supply chains.

Defence Market Intelligence and Networking

ADA Vic helps its Members' collaborate nationally with dual-use and defence industry suppliers and provides connections with Defence and defence industry prime companies. ADA Vic organises networking events, seminars, trade missions and a range of other industry support initiatives, promoting a collaborative and capacity building approach.

Communication link between Industry and Government

ADA Vic represents the interests of its Members by providing a communication link between those members and State and Commonwealth Government Departments. These include the Commonwealth Department of Defence (Capability, Acquisition and Sustainment Group), the Department of Industry, Innovation and Science and the Victorian Government Department of Jobs, Precincts and Regions. ADA Vic also represents its Members through advocacy on matters that shape defence and security industry policy and strategy.

National Organisation

ADA Vic is the Nations' largest singular, professional advocacy body for dual-use and defence industry SMEs, representing over 300 member companies with interests in Victoria and nationally. Through its partnership in the Australian Defence Alliance, ADA Vic works with the Defence Teaming Centre in South Australia and the Henderson Alliance in Western Australia to represent 1,100 + SMEs nationally, sharing strategic relationships with national and international professional advocacy bodies and encouraging national capacity building through collaboration.

Visit **www.australiandefencealliance.org.au** to discover the niche capabilities that you may be seeking or if you are interested in membership in ADA Vic please email **Claire S. Willette, Chief Executive Officer at info@australiandefencealliance.org.au or phone: +61 3 8658 5707.**



VICTORIA: DEFENCE EXCELLENCE

Victoria's defence excellence and capabilities put us in an unrivalled position to support a number of key defence projects – be they aerospace, land, maritime, cyber or other joint systems.

There are more than 350 companies in Victoria that operate in the submarine industry, with world-class research, development and design capabilities.

The Commonwealth Government has committed to the largest naval shipbuilding program in the nation's history – with projects to develop and build new submarines, new frigates, new offshore patrol vessels and boats.

Through a combination of our state's extensive shipbuilding history and our leading manufacturing and scientific research capability, Victoria has the expertise and the supply chain partners to make a significant contribution to Australia's naval submarine program.

The Andrews Labor Government's vision is for an innovative, globally competitive, highly skilled and adaptive defence industry that is at the forefront of providers serving the Australian Defence Force and global supply chains.

The Government actively supports the state's defence industry through:

- Advocacy and promoting Victoria as a competitive location for major defence prime contractors and projects
- Linking Victorian industry to international defence supply chains
- Promoting Victorian industry capabilities at domestic and international defence trade shows and missions
- Encouraging research and development (R&D) and collaborative networks
- Supporting initiatives to grow Victoria's highly skilled workforce
- Supporting Victorian businesses to grow and improve competitiveness to secure defence market opportunities.

A key element of the state's commitment to the Victorian defence industry is the advice, guidance and advocacy provided by the Victorian Defence Industry Advocate, the Defence Council Victoria and the Victorian Defence Alliances.

We will continue to work closely with the Australian Department of Defence and the defence industry to ensure that we have the expertise and capability to continue delivering domestic and international defence projects.

THE HON MARTIN PAKULA MP

Minister for Jobs, Innovation and Trade



Victorian Government Key Contacts

Defence Captures Team

The Defence Captures Team is the Victorian Government's lead entity for all defence, aerospace (air and space, civil and military), cyber security and general security industry sector issues.

To contact the Defence Captures Team, please use:

defence@djpr.vic.gov.au

+61 3 9651 8053

Global Victoria

Global Victoria is the State's gateway to global economies and communities.

With an international network of 22 Victorian Government Trade and Investment (VGTI) offices located strategically in key markets, Global Victoria open doors for Victorian businesses and supports them in established and high-growth markets.

To contact defence specialists in the VGTI network, please email:

Asia: defence.asia@global.vic.gov.au

USA: defence.usa@global.vic.gov.au

Europe: defence.europe@global.vic.gov.au

DEFENCE
EXCELLENCE



EURONAVAL 2018, PARIS

The French Minister for Armed Forces, Ms Florence Parly and Hervé Guillou, Chair & CEO, Naval Group speaking with Miro Miletic, of MEMKO on the Team Defence Australia pavilion at Euronaval 2018.

Industry Editorial

The Australian submarine industry is entering an unprecedented period of opportunity as the Future Submarine Program moves towards design and production and planning commences on the service life extension of some of the Collins Class boats. These programs, coupled with Federal and State government action to build industry capacity and capability, mean that industry is now well placed to take advantage of growth opportunities.

Production, service life extension and sustainment support of Australia's submarine fleet presents long term opportunities for our submarine industry. This provides some certainty in the nature and volume of future work opportunities presenting a sound basis for small to medium enterprises to consider of investment in additional capacity and new capabilities. It also creates an environment which encourages new entrants into the submarine industry supply chain market.

A further opportunity arises through participation in the global supply chain of Naval Group linked to their successful bid for the SEA 1000 Future Submarine Project.

Victoria's industry, with its proven record in supply chain support, engineering, design and support services, is well placed to make a significant contribution to the successful delivery of SEA 1000, the service life extension of the Collins Class submarines and the ongoing support of existing and new submarine.



TAKING GAS READINGS

Using a Draeger X-AM 5000 gas detector supplied and supported by Draeger Australia, based in Victoria.

ALLIANCE MEMBER CASE STUDY



Containerised and Portable 1.6MVA Shore to Ship Power Supply
- 50/60Hz Static Frequency Converter System.

THYCON and ECA GROUP collaborate to offer specialised power systems to the Australian Defence Programs

A technical cooperation between THYCON and ECA GROUP will address the challenges of the Australian Future Defence Programs, including SEA 1350 and SEA 1000 as well as other Defence Programs throughout Asia Pacific. THYCON and ECA GROUP bring together over 100 years of complementary power electronics design and manufacturing expertise.

THYCON, a Victorian based company and Victorian Defence Alliance member, is a major long term supplier to the Australian Department of Defence, providing Shore to Ship Power; 50, 60 & 400Hz Frequency Converters; Uninterruptible Power Supplies; Rectifiers and Airfield Lighting Equipment, as well as bespoke power electronics solutions for various specialised applications.

THYCON has supported Australian Shipbuilding and Maintenance with the design and construction of several Shore to Ship power installations including:

- ASC Australian Submarine Corporation – 3 x 1.6MVA Portable Thyristor Static Frequency Converters for the AWD Project
- BAE Systems Williamstown – 2 x 1.5MVA Thyristor Static Frequency Converters for the LHD Project
- AMC Australian Marine Complex – 3 x 800kVA Thyristor Static Frequency Converters
- Larrakeyah Barracks – 3 x 250kVA SFC & 4 x 300kVA SFC

THYCON has also provided numerous large 400Hz ground power systems, as well as an extensive range of 50/60Hz thyristor conversion systems for Australian military bases.

THYCON's Uninterruptible Backup Power Systems fulfil a key support function for Australia's Defence Forces, Intelligence and Communications across Australia by providing immunity to power disruption.

French company ECA GROUP is a world leader in naval converter technology and magnetic signature management with an established reputation for their silent electrical motors, steering consoles, subsea gear consoles and subsea robotic systems. ECA Group provides more than 30 navies with its innovative technological solutions and supports its customers in more than 80 countries.

ECA Group has supported the Royal Australian Navy by providing:

- IMPS systems upgrade for hydrographic vessels of the RAN
- Dronisation kits for RAN's drone boats used to tow RAN influence sweeps and PAP 104 Mine Identification and Disposal vehicles for the RAN Bay-class minehunters

THYCON will be supporting Advanced Magnetic Ranges Australia Pty Limited bid (ECA Robotics and AMOG Ventures Pty Ltd Joint Venture) for the new SEA 1350 deperming facility proposed to be located at Fleet Base West. The new over-run Magnetic Treatment Facility will allow Australia's new and existing submarines and surface ships to quickly & easily have the magnetism of their steel hulls mitigated, improving their stealth and reducing their susceptibility to magnetic detection including from undersea mines and certain torpedoes.

For the SEA 1000 Attack Class Submarines, THYCON will be tendering for the supply of critical on-board power electronic systems including static converters, variable speed drives and uninterruptible power supplies. With the expertise of ECA GROUP, THYCON is in a position to offer world class, Australian made naval converters to the project.

Together, THYCON and ECA GROUP offer an enhanced Australian design and manufacturing capability to fulfil the requirements of Australia's future defence needs, while ensuring sustainment of Australian projects is supported with local Victorian design, manufacturing and after sales care. At the same time, this cooperation ensures transfer of technology and know-how to Australia, positioning THYCON to provide sovereign capability for future naval converter supply requirements.

THYCON

ALLIANCE MEMBER CASE STUDY



Chief Chemist, Mr Terry Blythman, using the RPA (Rubber Process Analyser) at Mackay Consolidated Industries' NATA accredited laboratory in Melbourne, Victoria.

Mackay Consolidated Industries Recognised for Defence Manufacturing Excellence

Melbourne-based company, Mackay Consolidated Industries, and Defence Science and Technology (DST) received a joint Essington Lewis award (shared with Forward Defence) on the 1st August 2018. The accolade, designed to recognise excellence in industry and the Department of Defence collaborations, was awarded for the design and manufacture of radar absorbing material for submarines and surface platforms, including the Collins Class Submarines.

The collaboration between Victorian company Mackay and Defence Science and Technology (DST) has delivered world-leading product innovation and sovereign development and maintenance capability for Australia. Their work on the design and manufacture of a new, rubber-based radar absorbing material has created a more durable and effective detection avoidance product for the Royal Australian Navy (RAN). This material is being fitted to the RAN's fleet of Collins Class Submarines as part of a series of upgrades to keep the vessels at the leading edge of performance capability.

DST is the Australian Government's lead agency responsible for applying science and technology towards Australia's defence and security objectives. The agency is one of Australia's largest employers of scientists and engineers. DST was tasked with the design and development of a high- performance radar absorbing material; superior and more durable to the equivalent product previously purchased from an overseas supplier. Once the material was developed, DST worked with local company, Mackay Consolidated Industries, to manufacture the material.

Mackay Consolidated Industries, an 100% Australian-owned private company based in Victoria, has a long and fruitful history of collaborations with Defence. The company, established in the 1930s, is a leading manufacturer and distributor of engineered rubber and rubber composite products. During 1940's, Mackay Consolidated Industries was the only company in Australia that could bond rubber to metal. This led to Mackay becoming heavily involved in the manufacture of aerospace components for the second world war. More recently, Mackay has been a supplier to Defence across a range of capabilities including sea, land, air, and weapon systems.

Mackay worked closely with DST to refine and prepare the radar absorbing material for manufacture. A number of production challenges had to be overcome for the product to achieve the exacting specifications and tolerances required by DST. The result is a superior, Australian designed and manufactured, world-leading material. It will reduce the Collins Class Submarines signature, increasing the operational performance and survivability of the vessels. The material will also be used for other RAN surface platforms.

The Essington Lewis Award reflects both the innovative outcomes of the collaboration between DST and Consolidated Industries, and the success of the project in terms of budget and timeline achievements. Such collaborations deliver the important strategic benefits of fostering Sovereign Industrial Capability, including access to intellectual property rights, security of supply, and cost efficiencies. They also help stimulate innovation and new investments within Victoria's local manufacturing industry to sustain our vibrant and world-class local industry.







VICTORIAN DEFENCE ALLIANCE - SUBMARINES MEMBER CAPABILITIES

A person in a military uniform is seen from the side, looking at a control panel with several digital displays showing red numbers. The person is wearing a watch on their left wrist. The background is slightly blurred, showing more of the control room environment.

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
- Design & Engineering
- Electrical Systems
- Fluid Systems
- Heating, Ventilation & Air Conditioning Systems
- Metal Fabrication
- Modelling & Simulation
- Outfitting & Raw Materiel
- Professional Services
- Propulsion Systems
- Research & Development
- Safety Systems
- Signature Management
- Through Life Support
- Tooling
- Training Services

Capability Glossary



Battery Technologies

The development, supply and support of battery solutions for use in the submarine industry.



Communication Systems

The development, supply and support of communication systems for use in the submarine industry.



Design & Engineering

The provision of design and engineering services for the design, production and sustainment of systems and components used on submarines.



Electrical Systems

The development, supply and support of electrical and electronic systems and components for use in the submarine industry.



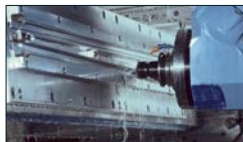
Fluid Systems

The development, supply and support of fluid systems for use in the submarine industry.



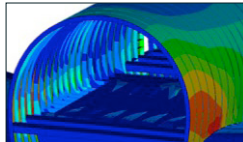
Heating, Ventilation and Air Conditioning

The development, supply and support of heating, ventilation and air conditioning systems and components for use in the submarine industry.



Manufacturing & Fabrication

The production, fabrication and assembly of components and systems for submarine construction and sustainment industry supply chains.



Modelling & Simulation

The provision of modelling and simulation solutions for use in training and on submarines.



Professional Services

The provision of professional services (e.g. training, consultancy, medical, legal, accounting) to support the submarine industry.



Propulsion Systems

The development, supply and support of propulsion systems and components for use in the submarine industry.



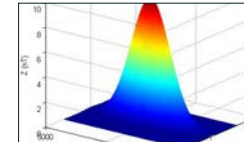
Research and Development

The provision of research and development services to support the submarine industry.



Safety Systems

The design, provision and support of safety systems used on submarines and in the submarine industry.



Signature Management

The development, production and support of signature management technologies and systems for use on submarines.



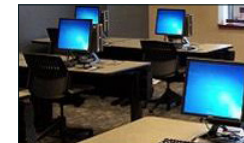
Through Life Support

The provision of through life support services for the submarine construction and sustainment industry.



Tooling

The design, production and support of tooling used in submarine industry supply chains.



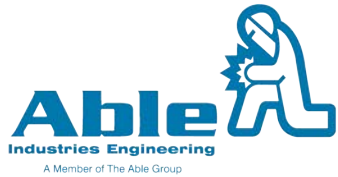
Training Services

The provision of training services to support submarine crew, construction and sustainment activities and functions.

Capability Index

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ABLE INDUSTRIES ENGINEERING

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Email: smartyn@ableind.com.au

CAPABILITIES

- Project Management, Design and FEA Analysis
- CNC Punching, Laser Cutting
- 8 Axis Robotic / Specialist Welding/Precision Spot Welding (Mil Spec)
- Specialised Precision Fabrication, Assembly and Integration

- 2D/3D CAD/CAM Facilities
- Ballistic plate processing and welding
- Military Specification Painting (DPP, CARC)

DISCRIMINATORS

- Over 35 years proven defence capability
- Expert Project Management team with masters level capability
- System Engineering Capabilities
- Certified welders / specialist welding
- Proven Supply Chain Management / M1 ERP System
- Mature Integrated Quality Management System (QMS)

KEY CUSTOMERS

- Leonardo
- NSM
- BAE Systems Australia
- Naval Group

QUALITY APPROVALS & AWARDS

- ISO9001 (2015)
- AS4801
- ISO14001, ISO3834
- AS/EN 9100

KEY PARTNERS

- Kewder Engineering (CNC Machining)
- PPG Paints

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Metal Fabrication	●	●
Professional Services	●	●
Through Life Support	●	●



ACS AUSTRALIA

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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

- Prototyping, Pre-production and Technology Implementation
- Composite and Metal Repair Technologies
- Composite and Metal Inspection and Structural Health Monitoring

DISCRIMINATORS

- Expert knowledge in the design, manufacture and maintenance of composite materials
- More than 25 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

- Globally recognised and awarded organisation
- Experience in diverse markets including aerospace, defence, automotive, maritime, ground transport, oil and gas
- Experience with ITAR related projects
- Personnel with current Australian security clearance

KEY PARTNERS

- aadi Defence
- Matrix Composites and Engineering
- Pacific ESI

KEY CUSTOMERS

- Department of Defence
- EADS / Airbus Group
- Thales
- Nova Systems

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Modelling & Simulation		●
Professional Services		●
Research & Development		●
Through Life Support		●

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- JEC Asia Innovation Award Winner 2015
- JEC Paris Innovation Award Winner 2014
- CRC Association Star Award 2013



AGILITY LOGISTICS PTY LTD

www.agility.com

Michael Bacarella
Corporate Business Development Manager
Agility Logistics Pty Ltd
28-32 Sky Road, Melbourne Airport VIC 3045
Tel: +61 3 9339 0888
Email: MBacarella@agility.com

CAPABILITIES

- Freight Forwarding Services in Air, Ocean, Customs & Road Transportation
- 3PL & 4PL Contract Logistics Services
- Warehousing, Storage & Packaging
- Transportation, Distribution & Procurement Solutions
- Defence and Government Services & Humanitarian Logistics
- Specialty Services in Project Logistics, Fairs & Events Logistics, Chemical Logistics and Fuel Logistics
- Freight Management, IT & Supply Chain Solutions.
- Customs Clearance Consultancy and Landside Services

DISCRIMINATORS

- Global Integrated Logistics specialising in complex Defence Industry solutions
- Top 10 Global Logistics (3PL) Provider and Industry Leader in Emerging Markets
- Extensive Global Network | 500 Offices | +100 Countries | 22,000 Employees
- Global technology platform supporting full visibility of supply chain logistics solutions
- Defence Industry expertise with project management teams ensuring critical response in challenging situations
- Defence Project Risk Management planning, identification, analysis, monitoring and control
- Past experience in International Government and Military environments
- Diverse experience in Australian Industry with Project Logistics in Energy, Oil, Gas, Mining & Water

KEY PARTNERS

- Agility Defence & Government Services
- Agility Project Logistics
- Agility Global Integrated Logistics
- Agility Fairs & Events Logistics

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●

KEY CUSTOMERS

- ASC
- UK Ministry of Defence
- US Defence Logistics Agency
- United Nations

QUALITY APPROVALS & AWARDS

- 'Vision Zero Accident' Program
- 'Be Safe, Stay Safe' Program
- AS/NZS ISO 14001 (2010)
- ISO9001:2008 (QMS 2010)



ALONGSIDE BUSINESS CONSULTING

www.abcselling.com.au

Matthew Benn
Managing Partner
Alongside Business Consulting
PO Box 1001, Ferntree Gully VIC 3156
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Email: mbenn@abcselling.com.au

CAPABILITIES

- Competitive Advantage Coaching. Competitive landscaping analysis, Refining brand position & Promotion
- Website and social media optimisation, to enable web-presence to be a useful tool for generating sales
- Modernising Sales and Marketing frameworks and systems to make them more efficient and effective
- Interim Sales and Marketing Leadership. We can be a Sounding Board, Part of your Team, Train and Coach
- Marketing. Physical and digital media marketing. Email, SEO, Social Advertising and Promotion
- Sales Consulting. We setup sales plans, channels to market, sales processes and help you sell more, more often
- Marketing Consulting. We analyse the market and industry, setup marketing systems, automations and help you sell
- Training and Coaching for all staff, reception to CEO. Everyone needs to be telling the same story, to sell well

DISCRIMINATORS

- We are result oriented experts in current and innovative marketing and sales methods
- We have dealt in the defence industry and understand a lot of the benefits and challenges that vendors face
- We help defence suppliers get commercial work, to alleviate the problem of over exposure to defence contracts
- We have been in business domestically and internationally, and can communicate and work across borders easily
- There is no guess work. We put in place systems and processes to capture and analyse for successful implementation
- We have a very flexible offering of consulting, training and marketing services. The best of Sales and Marketing
- We work alongside you as a sounding board, part of the team, training, coaching and implementing
- We have been in big business as leaders and small business as owners, and therefore we understand both sides

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●
Research & Development		●
Training Services		●



ALTAIR ENGINEERING

www.altair.com

Alex Quirk
Technical Manager
Altair Engineering Software Pty Ltd
512/1 Queens Road, Melbourne VIC 3004
Tel: +61 3 9866 5557
Email: quirk@altair.com

CAPABILITIES

- Altair HyperWorks is the most comprehensive, open-architecture, multi-physics CAE platform
- Altair ProductDesign consultancy deliver product engineering services from concept development to maintenance
- Finite Element Analysis (FEA) - linear and non-linear implicit and explicit
- Design optimisation - minimise mass, maximise stiffness, tune CoG & stability etc

DISCRIMINATORS

- Over 30 years experience
- Combination of engineering software and services means our software gets the most rigorous testing, and our engineers have direct access to the developers
- Industry leading optimisation tools allow you come up with reliable minimum mass designs first time
- Extensive experience across all industry verticals, from subsea to aerospace

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Modelling & Simulation	●	●
Metal Fabrication	●	●
Professional Services		●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●
Through Life Support	●	●
Training Services		●

- Blast and crash simulation - Impact, near- and far-field blast in air and water
- Electro-magnetics simulation - RADHAZ, co-site interference, RCS, magnetic signature, propagation
- Computational Fluid Dynamics (CFD) with Fluid-Structure Interaction (FSI) and wake modelling
- Multi-Body Dynamics (MBD)

- Trusted by the worlds leading OEMs and suppliers and defence organisations including Naval Group on Barracuda
- Altair HyperMesh is the industry leading finite element preprocessor
- Used by Lloyds Register, ClassNK, ABS, DNV-GL
- Multi-physics capabilities allow you to design whole systems within one environment

KEY PARTNERS

- Engineering: nCode, FEMFAT, Materialise, MapleSim
- Engineering: ESAComp, Moldex3D, Fluidyna
- Engineering: MADYMO, Airbus STRENGTH2000
- Computing: Microsoft Azure, SGI, Cray, HP, Amazon AWS

KEY CUSTOMERS

- Aerospace: Airbus, Boeing, Lockheed Martin, Raytheon
- Automotive: Ford, Ferrari, Mercedes, Porsche, TESLA
- Defence: BAE Systems, Thales, Australian DoD, US DoD
- Marine: Naval Group, British Aircraft Carrier Alliance, US Navy

QUALITY APPROVALS & AWARDS

- 2010 Boeing Performance Excellence Award
- NASA Engineering and Safety Centre Group Award
- 2012 Top Design Software Brands in the Electronics Industry
- 2012 Gold Stevie

AMAEROEngineering
ADDITIVE MANUFACTURING

AMAERO ENGINEERING

www.amaero.com.au

Barrie Finnin
CEO
Amaero Engineering Pty Ltd
13 Normanby Road, Notting Hill VIC 3168
Tel: +61 3 9905 3895
Email: bdm@amaero.com.au

CAPABILITIES

- Specialized 3D printing workforce
- Additive Manufacturing
- 3D Printing in Metals (SLM)
- Materials Development

DISCRIMINATORS

- Proven Aerospace track record
- Concept XLine, The largest build volume in the world currently
- Leading Researcher in Additive Manufacturing

KEY PARTNERS

- Safran Group
- Monash University
- Concept Laser

- Specialized Part Repair
- Hot Isostatic Pressing
- Blown Powder Deposition

- Full 3D Printing capability in house for design, prototyping and production
- Repair of large, complex components by laser-melted metal deposition

KEY CUSTOMERS

- Safran Power Units
- Turbomeca
- Boeing
- Raytheon

QUALITY APPROVALS & AWARDS

- ISO9001
- 2014 Safran Award for Global Innovation

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Heating, Ventilation & Air-Conditioning Systems		●
Metal Fabrication		●
Research & Development		●
Tooling		●



AME SYSTEMS (VIC) PTY LTD

www.amesystems.com.au

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

CAPABILITIES

- Design and manufacture of quality electrical wiring harnesses and systems
- Assembly of dashboards, control boxes and value added assemblies including complete supply chain management
- Supply harnesses from a single circuit to a complete vehicle electrical system
- Manufacture to IPCWHMA-620 and military specifications
- Supply to high and low volume requirements
- Custom made battery cables, RF cables and associated testing
- CAD 3D drawing and design

DISCRIMINATORS

- 30+ years experience in wire harness manufacture
- Experience in designing complete vehicle electrical systems
- Rapid prototype capability
- Lean manufacturer
- Low cost country manufacturing facility

KEY PARTNERS

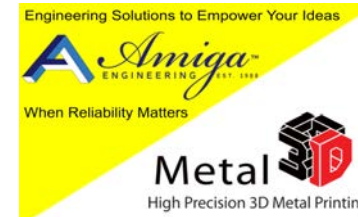
- T.E Connectivity
- Tycab Australia
- Cambridge Technologies
- ITT Canon

KEY CUSTOMERS

- Thales, Supacat, Varley
- Caterpillar, Bombardier
- Kenworth Trucks, Volgren
- Mahindra Aerospace

QUALITY APPROVALS & AWARDS

- ISO9001:2008 certified
- Manufacturing Hall of Fame inductee



AMIGA ENGINEERING PTY LTD

www.amigaeng.com.au

Michael Bouchier
Managing Director
Amiga Engineering Pty Ltd
9-11 Silicon Place, Tullamarine VIC 3043
Tel: +61 3 9330 0688
Email: michael@amigaeng.com.au

CAPABILITIES

- Metal 3D printing - 3 x Metal 3D printers in-house (2 PDmp320 print bed: 275x275x420 SLM280 print bed: 280x280x350)
- 2 off ProXDMP320 Metal 3D printers print bed 275x275x420 + 1 off SLM280HL Metal 3D printer print bed: 280x280x350
- Mazak Integrex i200S - 5 Axis CNC Machining
- In-house machining - CNC Milling up to 4.3 Metres
- In-house machining - Wash grinding to 1.2 Metres
- In-house machining - CNC Turning & Vertical Boring diameters up to 2.8 Metres
- Australian Made & Owned brand "Genat and Wood" Industrial gearboxes, VSD & Mixer drives
- Light Fabrication and Assembly

DISCRIMINATORS

- Only privately owned commercial service facility for Australia providing Metal 3D Printing located in Victoria
- Large Component Expertise & Capability Prototyping
- Forging and Casting Commissioning and Processing
- Precision Mechanical Assembly
- Manufacturer of Genat and Wood gearboxes proven to run for 30+ years (compared to cheap imported gearboxes)
- Vehicle component manufacture OEM Supply
- Extensive Material Traceability Records
- Electronic MDR for all Major Projects

KEY PARTNERS

- Vulcan Steel (Steel Engineering Dept)
- Ferrous Forgings
- Bearing Wholesalers
- Ronson Gears

KEY CUSTOMERS

- Suez Oil & Gas (Process Group)
- Textron Systems (Aerosonde)
- Australian Submarine Corporation
- Woodside Petroleum

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- Victorian Manufacturing Hall of Fame 2019 Top 3
- Australian Made & Owned
- Victorian Achievers Award Nom for business'18

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Through Life Support	●	●

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Metal Fabrication	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Tooling	●	●



AMOG CONSULTING

www.amog.consulting

Cherie Holland
Director
AMOG Pty Ltd
19 Business Park Drive, Notting Hill VIC 3168
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Email: cherie.holland@amog.consulting

CAPABILITIES

- Safety Engineering and Safety Case Development
- Advanced Hydrodynamics incl submarine manoeuvring
- Fire and Blast Modelling and Fire Engineering
- Computational Fluid Dynamics (CFD)
- Advanced Structural Analysis and Design, incl composites
- Analysis and Mitigation of Corrosion
- Scale Model Testing
- System Safety Management Master Class and System Safety Application training courses

DISCRIMINATORS

- Extensive prior submarine experience from over 10 years of working on COLLINS Class Subs
- Best in class safety engineering skills (incl as key advisor and principal contractor)
- Advanced hydrodynamic capabilities, incl hydro-structural interaction
- Global industry leader in the analysis of Vortex-Induced Vibration (VIV)
- Submarine manoeuvring analysis capabilities, incl wave interaction (applied to COLLINS Class)
- Advanced Structural Analysis and Design capabilities
- DISP Accreditation (Level: SECRET)

KEY PARTNERS

- Monash University
- AADI Defence
- University of Newcastle (Prof R Melchers)
- ECA Robotics (Advanced Magnetic Ranges Aust JV)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Heating, Ventilation & Air-Conditioning Systems		●
Modelling & Simulation		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Safety Systems		●
Through Life Support		●
Training Services		●

KEY CUSTOMERS

- RAN, Army, RAAF, CASG
- Thales, Naval Group, Navantia, BAE Systems
- ADI, AMC, ASC, CAE, UGL, Tenix
- Lockheed Martin, Raytheon, Rohde and Schwarz

QUALITY APPROVALS & AWARDS

- ISO 9001 and ISO 1401
- AS/NZS 1801:2001 and OHSAS 18001:2007
- DISP Accreditation (SECRET/NV1)
- Multiple Engineers Australia Excellence Awards



AMT

www.ausmarinetech.com.au

Brett Longmuir
Business Development Manager
Australian Maritime Technologies Pty Ltd
Level 17 607 Bourke Street, Melbourne VIC 3000
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Email: brett.longmuir@ausmarinetech.com.au

CAPABILITIES

- Ship Structural Design, including FEA and Dynamic Analysis
- Comprehensive Naval Architectural Services
- Marine, Mechanical and Electrical Engineering Design
- Combat System, Integration and Engineering Services
- Design for Shock, Vibration and Acoustic Integration
- EMSEC (TEMPEST) compliant design and support services
- Aviation Systems, Integration and Engineering Services
- Systems Engineering Tailored to Customer Applications/Processes

DISCRIMINATORS

- Australia's specialist Naval Ship Design and Engineering organisation
- Independent Australian Consultancy
- Cover all naval ship design disciplines
- Unique depth of experience in Australian Naval Design Projects
- Ability to work both above and below the line to suit the best needs of a project
- Extensive naval and paramilitary vessel experience
- Specialist in upgrades, modernisations and configuration changes
- Operating since 1987

KEY CUSTOMERS

- Royal New Zealand Navy
- Lockheed Martin
- CASG

QUALITY APPROVALS & AWARDS

- ISO 9001:2015

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Electrical Systems		●
Fluid Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Modelling & Simulation		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Safety Systems		●
Signature Management		●
Through Life Support		●



ANSTO

www.ansto.gov.au

Dr David Cookson
Commercial Technical Consultant
ANSTO
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Email: david.cookson@ansto.gov.au

CAPABILITIES

- Characterization of complex engineering materials (composites, metal alloys, ceramics and polymers)
- Elemental and chemical mapping of complex surfaces and coatings with micron length scale resolution
- Three dimensional imaging of complex natural (organic/inorganic) and artificial objects with x-rays or neutrons
- Strain-mapping and characterization of critical engineering components and weld performance
- High-sensitivity measurement of stable and radioactive isotopes for determining materials provenance
- Unique systems for detecting natural or man-made radioactivity in complex operational environments
- Engineering expertise for critical environments (such as nuclear facilities) with high safety factors
- Computational modelling and simulation for extreme materials conditions (eg. ballistics and armour performance)

DISCRIMINATORS

- ANSTO is sole owner and operator of unique landmark research infrastructure in Australia (Victoria and NSW)
- ANSTO facilities are highly utilized by most Australian universities and government-funded research institutes
- ANSTO is home to hundreds of highly-trained scientists, engineers and technicians with a wide range of expertise
- High engagement with external peer-reviewed science ensures best practice in our research and technology
- ANSTO facilities can be accessed by industry on a collaborative basis or simply fee for service
- All commercial interactions are covered by contract and non-disclosure agreements

KEY PARTNERS

- CSIRO
- Defence Science and Technology
- Australian Universities

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies		●
Design & Engineering		●
Fluid Systems		●
Metal Fabrication		●
Modelling & Simulation		●
Research & Development		●

KEY CUSTOMERS

- CSIRO
- Defence Science and Technology
- Australian Universities
- Domestic and international companies

QUALITY APPROVALS & AWARDS

- ISO 9001 (Australian Synchrotron)



AOS

www.aosgrp.com

Dr Andrew Lucas
Managing Director
Agent Oriented Software Pty Ltd
580 Elizabeth Street, Melbourne VIC 3000
Tel: +61 3 9349 5055
Email: Andrew.Lucas@aosgrp.com

CAPABILITIES

- Specialist in autonomous and semi-autonomous systems development
- Autonomous systems::
- iWatchdog™ – Intelligent Watch Dog, autonomously tasks multiple unmanned surveillance systems on Land, Air & Sea
- IBA™ – Intelligent Battlespace Advisor, AI decision support for air & missile defence
- Artificial Intelligence software::
- TacSim – Tactical Simulation for Undersea Warfare, developed by AOS with DST
- C-BDI™ – multi-agent software framework written in C++, for building autonomous systems and unmanned/manned teams
- JACK® – multi-agent software framework written in Java

DISCRIMINATORS

- Australian company with world-leading expertise in Artificial Intelligence software
- TacSim simulator used by DST Group for exploring submarine tactics, in support of SEA 1000 Program
- Deployment of autonomous RHIB for maritime intercept, as part of Autonomous Warrior 2018
- Expertise in intelligent decision support for military operators
- AOS's intelligent agent software is the first product series worldwide based on the BDI model of human reasoning

KEY PARTNERS

- DST Group; Defence Innovation Hub
- RMIT University; The University of Melbourne
- QUT/ACRV; The University of Sydney
- Northrop Grumman

KEY CUSTOMERS

- RAAF; SOCOMD
- UK Ministry of Defence
- Lockheed Martin Aeronautics
- Equinor (formerly Statoil, Norway)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation	●	●
Training Services	●	●



APPLIED CCM

www.appliedccm.com.au

Dr Darrin Stephens
Director
Applied CCM Pty Ltd
Factory 14, 756 Burwood Highway, Ferntree Gully VIC 3156
Tel: +61 3 8376 6962
Email: info@appliedccm.com.au

CAPABILITIES

- Computational Fluid Dynamics
- Mesh generation software
- Overset hole cutting software

DISCRIMINATORS

- Australian security cleared staff
- Proven record of supply to defence
- Best in class CFD mesh generation
- Open source CFD solvers
- Best in class overset software
- In depth technical expertise

KEY PARTNERS

- Pointwise Inc
- Celeritas Simulation Technology LLC
- DCS Computing GmbH
- Applied CCM Canada

KEY CUSTOMERS

- DST Group
- CSIRO
- Australian Maritime College

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation	●	●
Professional Services		●
Research & Development		●
Training Services		●



AST - AUSTRALIAN SURFACE TREATMENTS

www.astau.co

Peter Norwood
Operations Manager
Australian Surface Treatments
44 Killara Road, Campbellfield VIC 3061
Tel: +61 3 9357 0297
Email: petern@mackies.com.au

CAPABILITIES

- Teflon Coating
- Chemical and Electrical Resistant Coatings
- Non Slip Coatings
- Low Friction Coatings

DISCRIMINATORS

- AST are Specialists in the application of Fluoropolymer Coatings - Low Friction, Chemical and Electrical Resistant
- AST Complies with both Du-Pont and the Coating Manufacturers Surface Preparation and Application Specifications
- AST have the Largest Capacity Ovens for the Type of Coating in Australia

KEY PARTNERS

- Mackies Australasia Pty Ltd

KEY CUSTOMERS

- Mackay Consolidated Industries
- Forward Defence
- O-I Glass International
- Goodman Fielder

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Outfitting & Raw Materiel	●	●



ATLAS ENGINEERING

ATLAS ENGINEERING PTY LTD

www.atlasengineering.com.au

Milos Cvetkovic
Operations Manager
Atlas Engineering Australia Pty Ltd
8 Fowler Road, Dandenong South VIC 3175
Tel: +61 3 9792 9944
Email: production@atlasengineering.com.au

CAPABILITIES

- Mechanical Engineering
- Complex Milling & Turning
- Precision Jigs, Fixtures & Tooling
- Design and Product Development

- 3D Metal & Composite Printing
- Grinding & Gearcutting
- 3D Design

DISCRIMINATORS

- ISO9001 Accredited
- Proven experience producing highly complex components
- 24h Production Capability
- Complete Assembly & Testing
- Complete 3D Design to Manufacturing capability

KEY PARTNERS

- Hare & Forbes
- Okuma
- Thyssenkrupp
- Iscar

KEY CUSTOMERS

- Wabtec Corporation
- Cameron Australasia
- Brobo Waldown
- Flowserve

QUALITY APPROVALS & AWARDS

- ISO 9001

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Metal Fabrication	●	●
Modelling & Simulation		●
Outfitting & Raw Material	●	●
Professional Services		●
Research & Development		●
Through Life Support	●	●
Tooling	●	●



ATTAR

Advanced Technology Testing and Research

ATTAR

www.attar.com.au

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General Manager Engineering Consulting & Principal Engineer
Engineering Materials Evaluation Pty Ltd
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Tel: +61 3 9574 6144
Email: AdrianGrosvenor@attar.com.au

CAPABILITIES

- Specialist independent engineering consultancy
- Technical compliance auditing of supply chains
- Non destructive testing (NDT) Level 3 support
- NDT training
- Remote and in situ testing of assets
- Forensic engineering and failure analysis
- Technical and scientific writing training

DISCRIMINATORS

- Australian owned with over 30 years of proven experience
- Independent and unaffiliated entity
- Materials & Mechanical Engineers (BSc, BEng, PhDs) covering an diverse range of engineering disciplines
- Substantial enclave of NDT Level 3 certified staff
- Training qualifications issued under Registered Training Organisation (RTO) authority
- Authorised Qualifying Body (AQB) under the AINDT and BINDT schemes for NDT certification

KEY PARTNERS

- Monash University
- James Cook University
- Weld Australia
- QUARTEK

KEY CUSTOMERS

- Babcock International Group – Acoustic emission
- ASC - NDT Level 3 support
- BAE Systems - NDT Training
- Defence Materiel Organisation – NDT Procedures

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Professional Services		●
Research & Development		●
Through Life Support		●
Training Services		●

QUALITY APPROVALS & AWARDS

- NATA accredited test laboratory (ISO 17025)
- NDT Authorised Qualifying Body (ISO 9712)
- Board Members: NATA, AINDT, NANDTB, WTIA, FESA
- International Atomic Energy Agency Member



AUSTEST LABORATORIES

www.austest.com.au

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Site Supervisor
Austest Laboratories
2 Brex Court, Reservoir VIC 3073
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Email: rob@austest.com.au

CAPABILITIES

- Accredited Test Laboratory covering Environmental, EMC, Electrical and Telecommunication testing
- Mechanical tests including vibration, shock, constant acceleration, impact, inclination, fatigue, static load & IP
- Environmental tests including climatic, UV, solar, salt-fog, altitude and pressure
- Airborne and structure-borne noise testing
- EMC/EMI tests to MIL-STD 461 including radiated/conducted susceptibility and emissions
- Electrical tests including Surges, ESD and transient burst testing
- Engineering consultancy services

DISCRIMINATORS

- "One Stop Shop" - a single source for environmental, EMC, electrical and telecommunication testing
- Formal accreditation for defence standards: MIL-STD-461, 810, 167, 202, DEFSTAN00-35, RTCA-DO160, etc
- Defence knowledge and experience. Test engineers with over 40 years of combined experience in the defence industry
- Largest electrodynamic shaker in Aust capable of vibration & shock (classical & SRS) testing of equipment up to 2t
- Expertise in extreme and customized environmental testing
- EMC pre-compliance and compliance testing for all stages of product design
- Proven track record with leading defence contractors - Raytheon, Boeing, Thales, SAAB, BAE Systems etc

KEY PARTNERS

- Approval Specialist Pty. Ltd. (parent company)

KEY CUSTOMERS

- Raytheon Australia
- Boeing Defence Australia
- Thales Australia
- BAE Systems Australia

QUALITY APPROVALS & AWARDS

- ISO/IEC 17025
- A2LA Accreditation no. 2765.02



AUSTRALIAN AEROSPACE ENGINEERING

www.austaerospace.com

Adam Johnston
Engineering Manager
Australian Aerospace Engineering
PO Box 459, Jindera NSW 2642
Tel: +61 2 6026 2614
Email: aaepl@austaerospace.com

CAPABILITIES

- CASA Part 145 helicopter Maintenance, Repair and Overhaul (MRO)
- Component MRO
- Aircraft structural repair and helicopter drivetrain alignment
- Tailored aircraft refurbishment, life extension programs and avionics upgrades
- CASA Part 21G aeronautical parts manufacturing and sheet metal repairs and fabrication
- Precision CNC machining
- Painting and chemical treatment
- Engineering design for modifications and repairs (CASA Part 21M)

DISCRIMINATORS

- Dedicated CASA Part 145 MRO company with extensive tooling
- CASA Part 21G Manufacturing
- CASA Approved helicopter fixtures
- OEM trained and experienced LAMEs
- CASA approved to conduct Deep Level Maintenance on medium and light platforms
- Controlled spare parts store with over 15,000 line items
- Exclusive aerospace hardware distributor for Monroe Aerospace in Australia
- Strategic regional geographic location

KEY PARTNERS

- Arrow Falcon Exporters
- Monroe Aerospace
- Airwolf Aerospace

KEY CUSTOMERS

- Department of Defence
- BAE Systems
- Pennant Australasia
- Hawker Pacific

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Electrical Systems	●	●
Metal Fabrication		●
Professional Services		●
Research & Development		●
Through Life Support		●
Tooling		●

QUALITY APPROVALS & AWARDS

- CASA PART 145 MRO
- CASA PART 21G Production Certificate
- Defence Recognised Supplier (LoRS)
- ISO9001 : 2015 + AS9100D / AS9110C / AS9120B



PRECISION ENGINEERING
www.aptingeering.com

AUSTRALIAN PRECISION TECHNOLOGIES PTY LTD

www.aptingeering.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@aptingeering.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 proto types

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 PARTNERS

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

KEY CUSTOMERS

- Defence & Aerospace
- Mining, oil & gas
- Rail
- Medical

QUALITY APPROVALS & AWARDS

- IAS/NZS ISO9001:2008 *BSI
- AS9100 in progress



AUSTRALIAN TRADE & LOGISTICS CORPORATION

www.australiantradelogisticscorporation.com.au

Lawrence Christoffelsz
CEO

The Trustee For The Christoffelsz Family Trust
580 Collins Street, Melbourne VIC 3000
Tel: +61 1300 817 055
Email: lawrence@australiantradelogisticscorporation.com.au

CAPABILITIES

- End-to-end supply chain optimisation
- Export planning and support
- Inventory management
- Ethical, sustainable and traceability programs
- Tender management (logistics, warehousing & distribution)
- International trade support

DISCRIMINATORS

- We are an Australian-owned firm of international trade and supply chain experts
- We assist Australian companies to be properly prepared to secure contracts into global defence supply chains
- We can provide Australian defence exporters with world class supply chain, inventory and fulfilment strategies

KEY PARTNERS

- Global Trade Promotion Agencies and Consulates
- Australian logistics providers
- Australian supply chain providers
- Trade and Industry Associations

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services	•	•
Training Services	•	•

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

Craig Williams
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Email: craig@awsglobal.com.au

CAPABILITIES

- Welding Engineering
- Welding in-service inspection
- Advanced Education and training for welding engineers and trades
- Research and Development
- Welding structures integrity management
- Quality Assurance
- Works in close collaboration with leading institutions: Uni of Adelaide, Adelaide Microscopy, ANSTO and UniSA
- Experience in major Defence projects: ANZAC Frigates, Air Warfare Destroyer, Collins Class Submarine, Bushmaster

DISCRIMINATORS

- Unique range of credentials & experience in the Australian Market
- Highly qualified mechanical and welding engineers
- Highly qualified and experienced welding supervisors and inspectors
- AICIP inspectors
- Cerified auditors
- Welding educators certified by American Welding Society
- Consultants with Australian Security Clearances

KEY PARTNERS

- University of Adelaide
- ANSTO
- Universtity of South Australia
- Charles Darwin University

KEY CUSTOMERS

- ASC
- AWD
- Santos
- APLNG

QUALITY APPROVALS & AWARDS

- NATA Accredited (#15854) to ISO/IEC 17020
- Cm3 Prequalification
- Approved agent for American Welding Society
- Member of IMarEST

Vinesh Karan
Commercial Director
A.W.Bell Pty Ltd
145 Abbots Road, Dandenong South VIC 3175
Tel: +61 3 8773 7527
Email: vinesh@awbell.com.au

CAPABILITIES

- Manufacturer of complex metal components and assemblies with high mechanical properties for Defence applications
- Highly vertically integrated manufacturer of fully finished ready to use Investment and sand casting
- Collaborative design for function and manufacture capability
- Rapid prototyping into metal for representative development and testing, low volume production
- Precision production machining, assembly, NDT, certification, logistics, project management
- Steels including high-strength low-alloy, stainless, duplex & super duplex stainless, cryogenic and others
- Aluminium, nickel aluminium bronze, cast irons and other ferrous and non-ferrous grades
- Size envelope to 600 X 600 X 700mm approx

DISCRIMINATORS

- Aluminium Billet Equivalent (ABE®) casting process, ultra high strength aluminium investment castings
- Rapid prototyping into metal for all grades allowing proof of concept, testing, or low volume production runs
- Experts in manufacturing complex and intricate parts in all materials
- Manufacture of high-quality nickel alloy bronze, duplex, super duplex and general stainless steels products
- Flexibility and responsiveness to changing customer needs
- Established and proven supplier of world class defence and aerospace parts (F35 Strike Fighter, Collins Class)
- Proven global export experience with long term customers in North America, Europe and Asia
- Strong, dependable and redundant supporting supply chain

KEY PARTNERS

- CASG Global Supply Chain programme
- CASG Joint Strike Fighter Division
- Single Business Service
- AIDN

KEY CUSTOMERS

- ASC - Collins sustainment for engine and pumps
- BAE Systems - Sea Sparrow, Nulka and F35
- Northrop Grumman - F35 EODAS sub-assemblies
- Marand - F135 engine change trailer

QUALITY APPROVALS & AWARDS

- AS9100C, SAI Global
- ISO9001, ISO14001:2008, SAI Global
- 2016 - Victorian Export Award - Manufacturing
- 2013 VIC Manufacturer of the Year - Medium

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Metal Fabrication		●
Professional Services		●
Research & Development		●
Through Life Support		●
Training Services		●

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	
Fluid Systems	●	
Heating, Ventilation & Air-Conditioning Systems	●	
Metal Fabrication	●	
Outfitting & Raw Materiel	●	
Propulsion Systems	●	
Research & Development	●	
Through Life Support	●	
Tooling	●	

BAE SYSTEMS AUSTRALIA

www.baesystems.com/australia

BAE SYSTEMS

Michele Galeano
Submarine Systems Program Manager
BAE Systems Australia Defence Pty Limited
Nelson House Nelson Place, Williamstown VIC 3046
Tel: +61 (08) 8480 8599
Email: michele.galeano@baesystems.com

CAPABILITIES

- Integrated Logistics, through life and asset management services for maritime defence market
- Structural, mechanical and electrical engineering services for the defence maritime sector
- Manufacture and Assembly, Integration, Test (optical, mechanical and electronic)
- Australian Industry Capability Development and Technology Transfer
- Supply Support and Supply Chain Development and Management
- Complete detail and production engineering of modules to suit our facility
- Turnkey fabrication and waterfront load out of high quality Maritime Defence modules
- 20,000m2 undercover fabrication facilities with up to 17m under hook and wide doorways

DISCRIMINATORS

- 30 year pedigree in Submarines (manufacture, integrate, test, sustain, update/upgrade, supply chain)
- Complete project management, detail, production engineering and through life support and training services
- Proven track record of complex defence project management and delivery in a vertically integrated company
- In service support to RAN Maritime platforms
- Maritime facilities spread across multiple states

KEY PARTNERS

- Parent Company BAE Systems Plc
- Saab Systems major partner defence maritime
- Thales UK
- ASC Shipbuilding

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering		●
Modelling & Simulation		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Safety Systems		●
Signature Management		●
Through Life Support		●
Training Services		●

KEY CUSTOMERS

- Australian CASG for major prime contracts
- Royal Australian Navy
- Department of Defence TLS Services

QUALITY APPROVALS & AWARDS

- ISO 9001 Design, manuf, modules, loadout other
- Safety AS 4801
- Environment ISO 14001



BARON RUBBER

www.baronrubber.com

Fabian Bettiol
Business Development Manager
Baron Rubber Pty Ltd
5-15 Lakeside Drive, Broadmeadows VIC 3047
Tel: +61 3 9357 4767
Email: fabian@baronrubber.com.au

CAPABILITIES

- A global leader in the supply of custom moulded silicone, rubber & plastic components for the OEM market
- In-house engineering & design departments capable of developing products & manufacturing turnkey solutions
- In-house material chemists & labs to develop, compound & test dynamic material properties
- Multiple global production facilities
- Specialists in over-moulding onto various substrates; PCBs, steel, aluminium, ceramic, carbon, composite, plastic
- Full turnkey box-building capabilities including assembly, testing and packaging
- Production Process: Clicking, Compression, Transfer, Injection (Thermoplastic and Thermoset) and LSR
- Pre & Post Process: Metal preparation, painting & assembly

DISCRIMINATORS

- Full turnkey manufacturing and assembly capabilities, including testing, packaging and storage of box-builds
- Experts in rubber, silicone and plastic material compound, including customised elastomer formulations
- Full in-house technical, chemist, engineering and design teams to support product development and testing
- Multiple production facilities to manage cost targets & offer global distribution solutions
- Advance manufacturing environments including ISO 7 & 8 cleanrooms for specialised and sensitive products
- Certified medical supplier utilising robust verification & validation production processes such as PPAP and Cpk
- Currently undergoing DISP accreditation for key employees and manufacturing facilities
- Global recognised for advanced manufacturing of sensitive and specialised goods

KEY PARTNERS

- Defence Science and Technology Group
- NCI Australia
- DMTC
- RMIT

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies		●
Design & Engineering		●
Fluid Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Outfitting & Raw Material		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Signature Management		●
Through Life Support		●

KEY CUSTOMERS

- Thales
- L3 Oceania
- ResMed
- Schneider Electrical

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 13485
- GMP
- APVMA



BEAK ENGINEERING

www.beak.net.au

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

CAPABILITIES

- Equipment proven track record over 65 years
- Excellent R&O capabilities
- Extensive engineering dept & manufacturing capability to develop new systems & reproduce obsolete parts
- Diesel, JP5 and Lube Oil Filter Separators, JP5 Pre-filters.
- MIL-L-17331, MIL-T-5624, MIL-F-16884 & MIL-H-17672
- Lube Oil Strainers
- Gas Turbine Air start filters and Air Receivers
- Oily Water Separators

DISCRIMINATORS

- Filtration equipment in operation on 13 classes of ships globally
- Beak has provided CoA vast savings through reduced cost of ownership for the systems Beak represents
- Beak provides the ADF with rapid response field service teams for URDEFs worldwide
- Many years experience on multiple platforms and systems within Defence
- One of only a few companies awarded 3500 district warehousing and TLS of Defence assets
- Large facilities on both east and west coast
- Fully integrated cost management systems to reduce system through life cost for clients

KEY PARTNERS

- AAE
- Indal Technologies
- Davis Engineering

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Fluid Systems	●	●
Signature Management	●	●
Through Life Support	●	●

KEY CUSTOMERS

- MCPSP0, FFHSP0, DDGSP0, FFGSP0, ATACSP0, NASPO
- WAMA, NSM, BAE

QUALITY APPROVALS & AWARDS

- ISO9001



BMT DEFENCE AND SECURITY

www.bmt.org

Peter Sanders
Capability & Strategy Director
BMT Defence & Security Pty Ltd
Level 5, 99 King Street, Melbourne VIC 3000
Tel: +61 3 8620 6180
Email: info@bmttdt.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
- Business case support including scenario modeling, cost estimating, discrete event simulation and MCDA
- Asset Management support and guidance including reliability, defect and failure analysis
- Business and support services to major acquisition projects
- Training in Surface Ship, Submarine and safety engineering

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
- Established complex problem solving reputation gained by the application of established and novel techniques
- All projects are managed using established Project management frameworks such as PMBOK and Prince 2
- Staff trained and familiar with modern engineering tools
- All staff have current security clearance and extensive experience within the defence industry

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies		●
Communication Systems		●
Design & Engineering		●
Fluid Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Modelling & Simulation		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Safety Systems		●
Signature Management		●
Through Life Support		●
Training Services		●

KEY PARTNERS

- BMT

KEY CUSTOMERS

- CASG
- Dept of Defence
- UGL
- Serco Defence

QUALITY APPROVALS & AWARDS

- AS/NZS ISO9001: accredited
- DISP accredited
- Panel Members- DSS, ADSTC, ReSET



C4 ENGINEERING PTY LTD

www.c4engineering.com.au

Rick Doblanovic
Managing Director
C4 Engineering Pty Ltd
21 Victoria St, Melbourne VIC 3000
Tel: +61 (0) 406 974 007
Email: rick.doblanovic@c4engineering.com.au

CAPABILITIES

- C4 system integration including ICT, Tactical Data Links, plain/secure voice and data comms systems
- Platform integration of systems for Aircraft, Submarines and Surface Ships
- ICT architecture, design, installation and test services
- Cybersecurity assessment and test services
- RF System Visualisation, Modelling and Analytics
- Complex Program and Project EVM based delivery
- Training program and ongoing support services

DISCRIMINATORS

- We deliver solutions to critical challenges.
- Expert capability in design, development and integration of complex networked systems
- International experience in Electronic Warfare, RED/BLACK design, test and ICT system accreditation
- Certified ICT equipment and services partnerships
- In-house R&D for Cybersecurity and Data Visualisation
- Defence cleared and ITAR experienced staff
- Consulting and labour hire services

KEY PARTNERS

- VoTech System Engineers and Developers

KEY CUSTOMERS

- Department of Defence (CASG,CIOG)
- Telstra

QUALITY APPROVALS & AWARDS

- ISO 9001 Certified



CATTEN INDUSTRIES PTY LTD

www.catten.com.au

Ian Cubitt
Managing Director
Catten Industries Pty Ltd
58 Jersey Road, Bayswater VIC 3153
Tel: +61 3 9720 5777
Email: icubitt@catten.com.au

CAPABILITIES

- Laser Cutting
- Turret Punching
- Folding/Bending
- Welding Mig/TIG
- Grinding
- Powdercoating
- Assembly
- In house Engineering

DISCRIMINATORS

- In house control of processes
- One stop shop
- Fully Integrated ERP system and control
- In House Engineering Team
- Historical experience providing metal components for Collins Class Submarine project

KEY PARTNERS

- Apex Steel
- Dalsteel
- Impact Steel
- Eastern Suburbs Stainless Steel Supplies

KEY CUSTOMERS

- Bombardier Transportation
- NHP
- Kenworth Paccar
- AME Systems

QUALITY APPROVALS & AWARDS

- ISO9001

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Design & Engineering	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Research & Development	●	●
Safety Systems	●	●

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●



CGB PRECISION PRODUCTS PTY LTD

www.cgb.com.au

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National Business Development Manager
CGB Precision Products Pty Ltd
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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
- Air bearings, precision bearings, bushings/sleeve/journal. Fluid Control Components. Gearboxes & reducers
- Gears, precision & ground, load cells. Magnetic couplings, brakes & clutches. Rod Ends & Spherical Bearings
- Kamatics Specialty Bearings & Bushings. Bowman-High Performance Bowmet Bushes
- Direct OEM supplier support

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
- Develop working relationships with customers
- Customers have access to the latest innovative designs in our field
- Many of our suppliers are Tier1 companies to Aerospace & Defence Primes

KEY PARTNERS

- Kaman Specialty Bearings
- The Lee Co
- Kaydon
- Greene Tweed

KEY CUSTOMERS

- Goodrich-JSF Weapons Bay/Undercarriage uplock
- Rosebank-JSF Weapons Bay/Undercarriage uplock
- Supacat-Oilite Bushes
- Department of Defence- All Platforms

QUALITY APPROVALS & AWARDS

- ISO 9001:2015



CIDER HOUSE ICT

www.defence.ciderhouse.com.au

Raymond Harvey
Defence BDM
The Trustee for THE DOUG & KERRY BAIL FAMILY TRUST
18 Diosma Way, Mill Park VIC 3082
Tel: +61 (0) 431 600 320
Email: rh@ciderhouse.com.au

CAPABILITIES

- Internal Threat Mitigation Software
- Custodial Information Security solutions for defence supply chain data security environments
- Risk assessments for compliance with NDB Scheme, VPDSS, GDPR, ITAR/EAR, NIST800-171 and the ISM
- Solutions for compliance with NDB Scheme, VPDSS, GDPR, ITAR/EAR, NIST800-171 and the ISM
- Low cost, scalable solution from 10 to 44000 Endpoints (users/computers)

DISCRIMINATORS

- Solutions to Software Controls covered in the ISM, NIST and ISO compliance frameworks
- World's first easy to implement and use Document Encryption and Rights Management
- Keyless, Persistent Encryption to protect data at rest, in motion and in use. Data is never unencrypted
- Realtime File Tracking monitors the location and disposition of data outside the network, anywhere in the world
- Secure and rescindable file-sharing with authorised third parties, regardless of location on earth
- Detecting and preventing an average 1 data breach/100 users/month, across one million end-users globally
- Can classify and track most file types, Regular Expressions, Algorithms and Software code snippets
- Penetrates and monitors encrypted communications channels (WhatsApp, etc) emails and chat's

KEY PARTNERS

- eSafe Systems Australia
- Cisco
- Fujitsu
- Hewlett Packard

KEY CUSTOMERS

- Information Upon Request

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Fluid Systems	●	●
Propulsion Systems	●	●

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services	●	●



Codarra
Advanced Systems

CODARRA ADVANCED SYSTEMS

www.codarra.com.au

Warren Williams
Managing Director
Codarra Advanced Systems Pty Ltd.
Level 4, 480 Collins Street, Melbourne VIC 3000
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Email: warren.williams@codarra.com.au

CAPABILITIES

- Multi disciplinary System Engineering consulting covering mechanical, electronic, electrical and ICT systems
- Systems engineering/systems Integration and specification writing (including FPS, TCD, OCD, SEMP, V&V Plans)
- Specialist expertise in Defence Systems
- Project & Program Management consulting and training (Including PRINCE2®, MSP® & P30®)
- ICT Security expertise including IRAP and cryptographic equipment
- Test and evaluation management and consultation
- Noise and vibration consultation (including Whole-Body Vibration)
- Electrical load analysis including Failure Mode, Effects and Criticality Analysis (FMECA)

DISCRIMINATORS

- 27 years experience working with Defence materiel acquisition
- Multi disciplinary team of consultants
- Established achievements in complex Defence systems and platforms
- All consultants have a security clearance of Secret (NV1) as a minimum
- Expertise with IBM® Rational® DOORS®
- Understanding of the through life benefits of a Capability not just the technical solution
- Project Management expertise to better integrate their activities into a project
- Wholly Australian owned private company

KEY CUSTOMERS

- Dept of Defence (CASG)
- Dept of Defence (Land Engineering Agency)
- Dept of Defence (DSTG)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering		●
Electrical Systems	●	●
Professional Services		●
Research & Development		●
Safety Systems		●
Training Services		●



COLD LOGIC

www.coldlogic.com.au

Michael Riese
BDM - Defence Industry & Research
Cold Logic Pty Ltd
3 Adina Court, Tullamarine VIC 3043
Tel: +61 8 8240 3333
Email: michael.riese@coldlogic.com.au

CAPABILITIES

- Design, manufacture, install & through life support of chilled water plant
- Design, manufacture, install & through life support of provision refrigeration
- Design, manufacture, install & through life support of climate control solutions
- Design, manufacture, install & through life support of heat removal solutions

DISCRIMINATORS

- 100% Australian owned
- Specialist refrigeration and heat removal contractor
- Proven Australian and international supply chain
- In-house control system design
- Custom design capability
- Australian-wide subcontractor and client base
- Energy efficiency specialist

KEY PARTNERS

- Emerson
- Johnson Controls
- Danfoss
- GEA

KEY CUSTOMERS

- ASC
- Taylor Bros Marine
- Boeing Aerostructures
- Thomas Foods International

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Heating, Ventilation & Air-Conditioning Systems	●	●
Through Life Support	●	●

QUALITY APPROVALS & AWARDS

- 2017 Optus Trade Business of the Year
- 2016 HVAC&R Sustainability Leader of the Year
- 2016 Optus Manufacturing Business of the Year
- ARClick Authorised Company



COMMUNITY CHEF

www.communitychef.com.au

Joe Ciccarone
CEO
RFK Pty Ltd
43-47 Drake Boulevard, Altona VIC 3018
Tel: +61 3 9368 5900
Email: jciccarone@communitychef.com.au

CAPABILITIES

- Capacity to produce up to 14 million individual extended shelf life meals (refrigerated) per annum
- Ability to produce shelf stable meals
- Contract manufacturing and R&D services for the food Industry
- Consultancy for hotel services, catering services and food manufacturing
- Ability to produce , package and supply combat ration packs in conjunction with business partners Taspak
- Ability to product Frozen Meals with 12 Month Shelf life for Officer mess Halls

DISCRIMINATORS

- Extended shelf life for meals is acheived without the use of preservatives
- As a social enterprise, our focus is on achieving a good outcome not just a profit
- Ability to develop bespoke meals to exacting nutritional requirements in conjunction with our R&D partners

KEY PARTNERS

- Regional Kitchen PTY LTD (parent Company)
- BidFood
- CSIRO (R&D Partner)

KEY CUSTOMERS

- Victorian Local Government
- Victorian State Public Hospitals
- Delivered meals services Nationally
- Taspak

QUALITY APPROVALS & AWARDS

- Skin & Cancer Foundation Award 2018
- Finalist 2014 Victorian Worksafe Awards
- FSANZ - HACCP

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Outfitting & Raw Materiel	●	●
Research & Development	●	●



COMPLETE RUBBER PTY LTD

www.completeerubber.com.au

Brett Crittenden
Business Development Manager
Complete Rubber Pty Ltd
51 Sparks Avenue, Fairfield VIC 3078
Tel: +61 3 9482 7222
Email: brett@completeerubber.com.au

CAPABILITIES

- Waterjet Cutting Profiles - Eliminates costly tooling options
- Die Cutting Profiles - Quick & Easy Production of Parts
- RTV Silicone Prototypes
- RTV Silicone Manufacturing
- Fabrication works where automation is not possible
- Low volume to extreme volume capabilities - moulded & extruded rubber profiles
- Test Reports & Certificate of Conformity supplied if requested
- Detailed Spec Data Sheets

DISCRIMINATORS

- Over 60 years experience in the rubber industry
- Experience to solve any technical issues
- Assist in design
- Proven Defence Experience
- MILR Rubber Products
- 100% Australian Family Owned & Operated
- Manufacturing in Melbourne distribution network across Australia
- Rubber for extreme applications

KEY CUSTOMERS

- Thales
- Able Industries
- Milspec
- Supacat

QUALITY APPROVALS & AWARDS

- ISO 9001.2015

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Heating, Ventilation & Air-Conditioning Systems	●	●

Stephen Sulyok
General Manager - Asia Pacific
Compliancehelp Trust
15 Shand Court, Berwick VIC 3806
Tel: +61 1800 503 401
Email: stephen@compliancehelp.com.au

CAPABILITIES

- Compliancehelp helps you successfully implement and integrate ISO Management Systems into your business
- Our specialists will help you achieve greater profitability and secure compliance for your business
- Our unique methodology can have your company at certification readiness in 30-60 days
- Specialise in ISO 9001 (Quality), ISO 45001 (Safety), ISO 14001 (Environmental), ISO 27001 (Information Security)
- Also Specialise in AS/NZS 4801 (Safety), ISO 31000 (Risk), ISO 17025 (Testing & Calibration)
- Additional specialisation in ISO 55001 (Asset Management)

DISCRIMINATORS

- Compliancehelp focuses 1st on your company and 2nd on the standards to ensure your intuitive nature continues
- Outcome: Refined, simplified wholistic management system that's guaranteed to have your company certified

KEY CUSTOMERS

- Anywise Consulting
- Depth Logistics

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●
Safety Systems		●
Training Services		●

Richard Rowe
Business Development Manager
WA Cromarty & Co Pty Ltd
62 - 68 Garden Drive, Tullamarine VIC 3043
Tel: +61 3 6344 9110
Email: richard.rowe@cromarty.com.au

CAPABILITIES

- Control and Monitoring Systems
- HMI, Visualisation and SCADA systems
- ICT, database design and implementation
- Redundant Control systems
- Redundant Monitoring Systems
- Topology and Architecture design
- Secure segregated communication systems

DISCRIMINATORS

- Existing Marine applications designed and deployed
- 30 years experience in control systems
- ISO, Environmental and OH&S audited and certified systems and company procedures
- Design through to Implementation and Life Cycle Support

KEY PARTNERS

- Schneider Electric Partner
- Rockwell Automation Partner
- ABB Partner
- Siemens

KEY CUSTOMERS

- Incat Marine - Ship Builders

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies		●
Communication Systems	●	●
Electrical Systems	●	●
Heating, Ventilation & Air-Conditioning Systems		●
Outfitting & Raw Materiel		●
Professional Services		●
Research & Development		●
Safety Systems	●	●
Through Life Support		●

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 14001
- AS/NZS 4801



DARONMONT TECHNOLOGIES

www.daronmont.com.au

Lee Stanley
Strategic Marketing Manager
Daronmont Technologies Pty Ltd
15-23 Huntingdale Road, Burwood VIC 3125
Tel: +61 3 9830 6222
Email: marketing@daronmont.com.au

CAPABILITIES

- Broad Systems Integration Capability - Hardware, Software, Mechanical, Security and Mobility
- Communications ESM and Direction Finding Systems
- Tactical Air Defence C2 Systems
- Air Traffic Control and Ranges - Mobility and C2 Systems
- Link 11 and 16 Training Systems
- Engineering Support to the Intelligence Community
- 24/7 Support for Remote Communications and Surveillance Systems HF Surface Wave Radar

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 - S&CSPO (MCRC Project) - Acquisition and Support
- ASDEFCON Acquisition and Support Capability
- Party to multiple TAAs and ITAR ready
- Proven capability to provide long term support to electronic systems

KEY PARTNERS

- Raytheon Solipsys, TCG
- SEA UK
- Marops NZ
- C4i Harris

KEY CUSTOMERS

- RAN - Submarine SPO, Raytheon, HMAS Watson
- SAAB - SEA1180 OPV Comms ESM System
- Lockheed Martin Canada - AOPS
- CASG (ESD), DST Group, ADFTA, CUSTOMS

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- CASG AEO Certification for Acq and Support
- Essington Lewis Trophy Winner - 2008 and 2012
- Defence Teaming Centre Outstanding SME Award 2012

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Research & Development		●
Through Life Support		●



DIRECT EDGE MANUFACTURING

www.directedge.com.au

Diane Edgerton
CEO
Direct Edge (Tas) Pty Ltd
53 Strahan Street, South Burnie TAS 7320
Tel: +61 3 6434 0500
Email: diane@directedge.com.au

CAPABILITIES

- Prototype & product development
- Laser, punch & router cut parts (Mild steel, stainless steel, aluminium, titanium, copper, timbers & plastics)
- Brake press folding
- Welding of mild steel, stainless steel, aluminium, copper & dissimilar metals.
- Manual jobbing tasks that include but are not limited to drill & tap, bevelling & de-burring
- Sandblasting & chemical dipping
- Powder coating, painting, galvanised plating, electro polishing & anti corrosive treatment
- Certificate of compliance from Romer & Inspeccion quality systems

DISCRIMINATORS

- Australian owned & operated, Direct Edge Manufacturing distribute high quality Australian made products worldwide
- Full range of services provided from receipt to despatch of order
- Deliver an extensive range of solutions to all industry sectors & Offer low to high volume production
- Latest CNC automated technology ensures reduced lead times & guaranteed precision
- Diverse range of finishes include painting, powder coating, galvanised plating, engraving or electro polishing
- Quality certificate of compliance provided with Romer & Inspeccion quality systems
- International Welding Specialists & Welding Inspectors onsite
- ISO 3834-2 & DIN 2303

KEY PARTNERS

- Bluescope Steel Australia
- Maltec Engineering
- Capral Aluminium
- Headland Machinery

KEY CUSTOMERS

- CAT
- Taylor Bros
- Mader International
- Incat Tasmania

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- ISO 14001:2015
- AS/NZS 4801:2001
- BS OHSAS 18001:2007

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Metal Fabrication		●
Research & Development		●



DMTC LTD

www.dmtc.com.au

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

CAPABILITIES

- Key strategic partner to the Naval Shipbuilding Enterprise and Hunter Class Frigate program
- Creating stronger, more integrated and more innovative industrial supply chains to support naval shipbuilding
- Support Australian defence industry to be defence-ready and reach global performance/productivity benchmarks
- Foster enduring collaborative relationships between industry, research organisations and Defence
- Ensure expertise of Australian research sector is diffused into defence industry through applied R&D

DISCRIMINATORS

- Integrated supply chain approach to technology development to ensure rapid commercial adoption of technology
- Strategic guidance from the Naval Shipbuilding Enterprise to direct DMTC technology development priorities
- Enhance outcomes and reduce time to market and costs to Defence through collaborative, co-investment model
- Reach-back capacity to access and guide/direct deep technical expertise in manufacturing and technology

KEY PARTNERS

- Naval Shipbuilding Enterprise & DST Group
- Australian Universities, CSIRO & ANSTO
- Australian industry supply chains
- Capability Acquisition and Sustainment Group

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Metal Fabrication	●	●
Modelling & Simulation		●
Outfitting & Raw Materiel		●
Professional Services		●
Propulsion Systems	●	●
Through Life Support		●
Tooling	●	●
Training Services		●

KEY CUSTOMERS

- Australian Department of Defence
- BAE Systems Australia and supply chain
- Thales Australia and supply chain
- State Governments and defence industry

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 Quality Management System accreditation
- ISO 44001:2017 Collaborative Business standard
- Defence Industry Security Program
- Innovation Awards - Pacific - 2015 & 2017



DRAEGER AUSTRALIA PTY. LTD

www.draeger.com

Daniel McGregor
Segment Manager
Draeger Australia Pty. Ltd.
8 Acacia Place, Notting Hill VIC 3168
Tel: +61 1800 372 437
Email: Daniel.McGregor@draeger.com

CAPABILITIES

- Engineered Systems (Breathing Gas, Compressors & Collective Protection)
- Portable & Fixed Gas / Flame Detection Solutions (TIC & CBRNE)
- Breathing Apparatus & Emergency Escape Devices (OCCABA & ELSRD)
- Respiratory & Personal Protective Ensembles (TIC, CBRN & Fire)
- Open / Closed-Circuit Diving Systems & Equipment (SCUBA & CCUBA)
- Medical - Patient Monitoring, Ventilation, Anaesthesia & Work Place Infrastructure
- Thermal Imaging Cameras & Breath Alcohol / Drug Testing Solutions
- Australian / International Through Life Sustainment & Support

DISCRIMINATORS

- Original Equipment Manufacturer (OEM)
- Over 125 Years Of Continuous Research & Development
- Significant Australian Sustainment & Support Capability
- Physical Footprint In Every State In Australia
- In House Design, Testing & Development Capabilities
- Australian / International OEM Service Network
- Australian Logistics & Warehousing (Melbourne/Perth)
- Full Owned Subsidiary Of Drägerwerk AG & Co. KGaA (Germany)

KEY PARTNERS

- Drägerwerk AG & Co. KGaA (Parent)
- Australian Industry & Defence Network

KEY CUSTOMERS

- CASG & Associated Domains
- NZ Ministry Of Defence
- Key Oil, Gas & Mining Companies
- Every State Fire Service (Australia)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	
Communication Systems	●	
Design & Engineering	●	
Electrical Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Through Life Support	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- ISO 13485:2012
- NATA Accredited Laboratory
- ISO 14001 & 18001



ECA GROUP

www.ecagroup.com

Gabriel Macagno
Business Development Manager
ECA Robotics
Level 5, 121 Exhibition Street, Melbourne VIC 3000
Tel: +61 (0) 481 774 999
Email: ext_macagno.g@ecagroup.com

CAPABILITIES

- Power Electronics (Static Converters, Variable Speed Drives,)
- Acoustic and Magnetic Signature Management (Ranging, Degaussing, Deperming...)
- Steering and Diving Console
- Integrated Platform Management System
- Swimmer Delivery Vehicle
- Remotely Operated Vehicles
- Autonomous Vehicles
- Main Switchboard

DISCRIMINATORS

- All products/solutions are made to measure to fulfil and/or exceed the requirements of the end user
- Extensive experience in design and manufacture of ship equipment and protection for navies across the world

KEY PARTNERS

- THYCON: Industrial partner in Victoria

KEY CUSTOMERS

- Naval Group
- Asian Navies: SG, ID, MY, KR, IN, PK
- European Navies: FR, BE, NL, UK, LV, LT, GR, TR

QUALITY APPROVALS & AWARDS

- ISO 9001

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●



ENVIROFLUID

www.envirofluid.com

Lorraine Johnson
National Account Manager Defence
Environmental Fluid Systems
39 Coghlan Road, Warrnambool VIC 3280
Tel: +61 1800 777 580
Email: lorraine.johnson@envirofluid.com

CAPABILITIES

- Manufacture of custom designed flushing systems
- Quick break detergents for confined spaces
- Eco-safe water treatment, scale removal and odour control
- High flash point surface preps, paint clean-up and welding solvents
- Enviro-safe "green" industrial chemicals for carbon and rust removal
- AMSA Listed oil cleanup chemicals for use in Australian waters
- Solvent replacements for MEK, Toluene, Kerosene and Acetone

DISCRIMINATORS

- WHS compliant degreasers that reduce disposal costs and chemical inventory
- Eco-friendly "green" chemicals that protect surfaces and reduce rust
- Readily biodegradable quick break detergents that enhance oily water separation and improve effluent quality
- Non toxic scale removers that limit corrosion and lower effluent disposal costs
- Super concentrated solutions that save storage space
- High flash point solvents that reduce and explosion risks
- Eco-safe AMSA listed oil spill chemicals
- Specialty chemicals for carbon removal that reduce PPE requirements. Suitable for confined spaces

KEY CUSTOMERS

- Defence
- ASC
- Penske
- Gillencore

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 14001
- Letter of Recognised Supply Defence
- SAM, Asia/NECO, NATO

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Fluid Systems	●	●
Propulsion Systems	●	●
Through Life Support	●	●



Fluid Dynamics

Heat Exchange Solutions
since 1981

FLUID DYNAMICS
www.fluidynamics.com.au

John Bolton
Chairman
Fluid Dynamics Pty. Ltd.
25-27 Star Crescent, Hallam, Melbourne VIC 3803
Tel: +61 3 8786 4900
Email: jbolton@fluidynamics.com.au

CAPABILITIES

- Design, Manufacture, Clean, Test & Refurbishment of Marine Heat Exchangers
- Advanced range of high quality air-coolers, plate coolers & shell & tube heat exchangers
- Heat Exchangers for pistons, jackets & cylinder heads for reciprocating engines
- Condensers, Recuperators & Economisers for steam
- Marine Charge Air Coolers for all major engine manufacturers with extensive design data & manufacturing drawings
- Full range of design capabilities - Thermal, Mechanical, Structural, Electrical & Instrument Control
- Direct replacements available for virtually all marine diesel engine air-coolers
- Heat Exchangers for LPG heating, LNG condensing, Steam & Water Plant, Plant Room, A/C, Propulsion Motor

DISCRIMINATORS

- Exclusive A&NZ partnership with Sterling Thermal Technology UK (est. 1908)
- With our international partners we have full design and manufacturing capabilities and approvals
- Fully equipped Australian factory providing full life support with industrial size Ultrasonic Cleaning System
- Decades of experience and know-how specialising in all types of Heat Exchangers
- Patented EL Fin block fin tube used in air Heat Exchangers with precise & consistent CNC fin placement
- Access to full range of materials including Titanium, Copper Nickel, Super Duplex, Hasteloy
- Full range of proprietary Extended Surface Heat Exchangers - EL Fin, HEI Block, G-Fin, LL-Fin, T-Fin, Gilled Fin
- Full range of Shell & Tube and Plate Heat Exchangers

KEY PARTNERS

- Sterling Thermal Technologies (UK)
- Thermex (UK)
- Sacome (Spain)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Propulsion Systems	●	●
Through Life Support	●	●

KEY CUSTOMERS

- Penske - MTU, Detroit Diesel
- Thales, BAE
- MAN Diesel
- P&O

QUALITY APPROVALS & AWARDS

- ISO 9001:2008; Achilles UVDB;
- ASME U; DNV; PED; ATEX; PD5500;
- Lloyds Register; ABS



G&R MAINTENANCE PTY LTD
www.gandrmaintenance.com.au

Anthony Blight
Director
G&R Maintenance Pty Ltd
24 Nicholas Drive, Dandenong South VIC 3175
Tel: +61 3 9768 2955
Email: anthony@gandrmaintenance.com.au

CAPABILITIES

- Repairs/upgrades/overhauls to all makes and models of Vehicles, Plant & Machinery, mobile and fixed
- Fuel/Oil Polishing
- Air conditioning/Refrigeration servicing and repairs
- Welding and Fabrication services, reverse engineering and manufacturing of unavailable parts
- G&R Maintenance is not held to one manufacturer and are flexible in their delivery of services

DISCRIMINATORS

- Employees are ex defence we understand the requirements of the end user and the documentation
- We understand operational requirements
- Ability to manufacture special tooling as required
- Reverse Engineer and manufacture unavailable parts
- Ability to deploy with tooling at an hours notice

KEY PARTNERS

- Penske
- Volvo Penta
- Cummins
- ZF

KEY CUSTOMERS

- Spiral Logistics
- DRW Group
- CDC Canberra
- PFM Logistics

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Electrical Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Metal Fabrication		●
Propulsion Systems		●
Through Life Support		●
Tooling		●



HARDCHROME ENGINEERING PTY LTD

www.hardchrome.com.au

Mehdi Soodi
Laser Department Manager
Hardchrome Engineering Pty Ltd
175 Wellington Road, Clayton VIC 3168
Tel: +61 3 9561 9555
Email: mehdi@hardchrome.com.au

CAPABILITIES

- Metal components fabrication and assembly
- Metal components reclamation
- Surface engineering, coating, protection
- R&D

DISCRIMINATORS

- Full in-house service, no subcontractors therefore full control over quality
- 40 years of experience
- Small enough to make quick decisions and implement them, Large enough to handle large projects

KEY CUSTOMERS

- Vector Aerospace
- Kumatso
- Liebherr
- AGL

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Metal Fabrication	●	●
Research & Development	●	●



HARGO ENGINEERING PTY LTD

www.hargo.com.au

Frank Gogol
Managing Director
Hargo Engineering Pty Ltd
103-115 Merrindale Drive, Croydon South VIC 3136
Tel: +61 3 9761 5110
Email: frank.g@hargo.com.au

CAPABILITIES

- Advanced manufacturing of Aerospace spec on-board electrical connectors
- Interconnecting Rack and Panel Housings
- Black-box Fittings
- Aircraft circuitry enclosures
- Avionics systems components
- Precision and Repetition Engineering
- Engineering Development and manufacturing
- First Article Inspection Reports to AS9102, PPAP's, FMEA, PCP in process inspection

DISCRIMINATORS

- Over 40 years of experience in the Advanced Manufacturing field
- 100% reliability for fail-safe components which underpin mission-critical activities
- 100% Australian owned family company with local manufacturing facility
- Lean manufacturing processes
- In-house technical development program to ensure continual up-skilling of staff
- 'Outside-in' collaborative approach to project management

KEY PARTNERS

- Thyssen Krupp
- Collins Anodic
- Valbruna Australia
- Danco Anodizing

KEY CUSTOMERS

- Aerospace - Local - JSF & Export
- Defence - Local - ARMTSP0 & Export,
- Life Sciences
- Mining

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Through Life Support	●	●
Tooling	●	●

QUALITY APPROVALS & AWARDS

- AS9100D
- ISO 9001:2008
- I.T.A.R. Compliant



HEUCH REFRIGERATION

www.heuch.com.au

Steve Oakley
Managing Director
Heuch Pty Ltd
35-37 Nissan Drive, Dandenong South VIC 3175
Tel: +61 3 9793 6088
Email: cool@heuch.com.au

CAPABILITIES

- Complete through-life manufacturer and service provider, design to decommission, for C.O.T.S and specialised refrigeration systems
- Full field servicing with in-house, real time engineering support
- Haz-Op and Military Spec. design and manufacture
- Personnel, equipment and electronics cooling and heating
- Environment simulation test and training rooms
- Redeployable solar or diesel powered HVAC and refrigeration equipment
- Air conditioning, liquid, material and process cooling
- Refrigerant conversions

DISCRIMINATORS

- Proven: providing HVAC and Refrigeration solutions and service to Defence industry for over 30 years
- Complete service provider: Design, manufacture, install and service
- Local: Australian engineering. Fast prototyping to volume manufacture
- Stress Tested: Successful projects in harshest environments, including high ambient temperatures and off-shore locations, to tight operating and energy budgets
- Reliable: Lean manufacture process, mature QMS and continuous improvement philosophy
- Can do: "Can do" and "See it through" attitude

QUALITY APPROVALS & AWARDS

- ISO9001:2008 QMS accreditation by SAI Global (QEC6873)
- Winner 2016 CCN HVAC-R Leadership Awards for Innovation
- Finalist 2016 Land Forces Innovation Awards
- Finalist 2014 Melbourne S.E Business Awards

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Through Life Support	●	●



HIDE AWAY SAFE CO

www.hideawaysafe.com.au

David Jackson
Principal Director
Hide Away Safe Securities Pty Ltd
240 Stamps Lane, North Wangaratta VIC 3678
Tel: +61 3 5721 9040
Email: david@hideawaysafe.com.au

CAPABILITIES

- Globally Unique to Hide Away Safe Co
- A unique broad spectrum security system, can be used anywhere in the world
- Made from 'state of the art' liquid injected LEXAN Military grade Polycarbonate
- Successful 'systems integration' proven over 20 years within Defence
- Ideal as a Defence personnel's private and relocatable on board fixed security safe
- Two interchangeable sizes with various internal configurations to suit customer's requirements
- Customer DIY or in house installation available
- Locked with SCEC endorsed Abloy Protec ultra high security lock sets

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

KEY PARTNERS

- MBAuP
- RMMVA
- Thales
- ASSA Abloy

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Electrical Systems	●	●
Outfitting & Raw Materiel	●	●
Safety Systems	●	●
Through Life Support	●	●

KEY CUSTOMERS

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

QUALITY APPROVALS & AWARDS

- COTS 2008, MOTS 2011 Defence Approved Supplier
- NATO (NCAGE) Code ZOMYO
- DMO LoRS certification
- AS/NZS ISO9001:2008 Cert #17101201 Lic #Q0171



HOFMANN ENGINEERING PTY LTD

www.hofmannengineering.com

David Thickpenny
Senior Product Manager
Hofmann Engineering Pty Ltd
292 Bay Road, Cheltenham VIC 3192
Tel: +61 3 8585 1800
Email: david.thickpenny@hofmannengineering.com

CAPABILITIES

- Commitment to continuing improvement, significant R & D capabilities & extensive metallurgical facilities
- Extensive experience in general engineering, manufacturing gears & refurbishing gearboxes to exact specifications
- Quality and service is paramount with fabrication services covering all aspects in support of the defence industry
- Project management teams specialise in provision of engineering & management services for the Government industry
- Highly trained engineers can from existing parts or new ideas produce detailed designs to suit your requirements
- with 6 new 5-axis machines we have the capabilities to manufacture all types of gearing
- Has provided engineered solutions to the defence industry for over 40 years, backed by ISO9001:2000 & AS9100
- One of Australia's largest specialized heat treatment facilities, supporting heat treatment of all material types

DISCRIMINATORS

- 35m length VDF CNC Lathe with 1830mm swing. Largest CNC lathe in the southern hemisphere
- 20+ years experience in Design, Development & Manufacture of military and aerospace components, Jigs, Fixtures etc
- Extensive in-house & on-site refurbishment work on HMAS vessels including Collins class submarines
- High end fabrication & 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

KEY CUSTOMERS

- Thales
- BAE Systems (ITAR & Export)
- Rolls Royce
- Australian Submarine Corporation (ASC)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Outfitting & Raw Material	●	●
Propulsion Systems	●	●
Research & Development	●	●
Through Life Support	●	●
Tooling	●	●



HYDAC

www.hydac.com.au

Peter Agius
National Sales and Marketing Manager
HYDAC Pty Ltd
109-111 Doherty Rd, Altona North VIC 3025
Tel: +61 3 9272 8907
Email: peter.agius@hydac.com.au

CAPABILITIES

- Local design and manufacturing facility
- Current supplier of the Army, Navy, and Airforce (ground equipment)
- Current supplier of Defence ships worldwide through KRAEFT and military test rigs through HYCOM
- Products with MIL-SPEC suitable for ground and onshore and offshore equipment
- Products & services under quality systems certified in accordance with ISO 9001:2008

DISCRIMINATORS

- Worldwide approvals
- Engineering advice
- Bespoke design & drawings
- On-site reliability audit program
- Cleanliness solutions for oil & fuel
- Oil analysis & calibration service in our own Laboratory & Calibration Centre of Excellence
- Quick product availability with branches located close to you
- Hands-on technical training

KEY PARTNERS

- HYCOM

KEY CUSTOMERS

- Collins Class Submarines (UK Defence contractor)
- HMAS ADELAIDE (Australian Defence contractor)
- BARRACUDA SUBMARINE (French Defence contractor)

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Professional Services	●	●

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 14001
- ISO 18001
- ISO 29001



INDEC CONSULTING PTY LTD

www.indec.com.au

Christopher Rule
Principal
Indec Consulting Pty Ltd
Level 7-60 Collins Street, Melbourne VIC 3000
Tel: +61 3 9250 6950
Email: Christopher.Rule@Indec.com.au

CAPABILITIES

- Portfolio, Program and Project Management
- Systems Engineering and Integration
- Capital System Capability Development, Acquisition and Sustainment
- Infrastructure Program Management and Contract Administration
- System Safety and Engineering Advisory
- Asset Management, Integrated Logistic Support
- Business Operations Modelling, Simulation and Assessment
- Contestability and Independent Technical, Project and Commercial Assurance Services

DISCRIMINATORS

- Over 35 years' experience in Defence, Utilities, Transport and Built Environment sectors
- Independence and expertise – technologies, program management, asset management and commercial
- Transparency and reliability
- Risk and System Safety methodologies successfully implemented across the Defence, Financial and Transport Sectors
- ISO55000 Certified Assessor | Institute of Asset Management Endorsed
- Security cleared consultants

KEY CUSTOMERS

- Defence CASG
- Transport for Victoria, DEDJTR
- Transport for NSW
- Victorian School Building Authority

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●
Safety Systems		●
Through Life Support		●



INFOSYS PORTLAND

www.infosysbpo.com/portland/

Sid Prakash
Senior Manager
Portland Group Pty Ltd
Level 6, 818 Bourke St, Docklands VIC 3008
Tel: +61 (0) 451 707 303
Email: sprakash@infosysportland.com

CAPABILITIES

- Largest specialist Procurement and Supply Chain consultancy in Asia Pacific
- Our services include advisory (incl. procurement strategy) and delivery services (incl. tender facilitation)
- Over 100 consultants based in Australia with experience in high value, complex procurement and tendering
- We have worked on over 2,000 projects, procuring more than \$90 billion in goods and services

DISCRIMINATORS

- Able to rapidly mobilise project teams to support demanding capital procurement project schedules
- Our category experts combine operational experience with strategy consulting toolkit and local benchmarks
- Fact based approach using best practice & proven methodologies that deliver high quality, sustainable outcomes
- We deliver robust and commercial outcomes in an accelerated timeframe under strict governance model

KEY PARTNERS

- Australian Industry and Defence Network
- Industry Capability Network (ICN)
- Chartered Inst. of Procurement & Supply (CIPSA)

KEY CUSTOMERS

- Federal and State Governments
- Top 200 ASX listed companies
- Defence prime contractors

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●

QUALITY APPROVALS & AWARDS

- Multiple CIPSA client awards
- Procurement Industry Recognition Award

Paul Hughes
Managing Director
Integra Systems Pty Ltd
197 Northcorp Boulevard, Broadmeadows VIC 3047
Tel: +61 3 9359 3133
Email: paul@integrasystems.com.au

CAPABILITIES

- Product Design Engineering, including Industrial Design and Mechanical Engineering - Concept to Prototyping
- Design for Manufacture (DFM), design for easy deployment, design for sustainability, design for reduced on-costs
- Prototyping - Rapid prototyping, 3D printing, applied manufacturing prototyping
- Project Management of key network of local and global suppliers for complete solutions
- Flexible light metal in-house manufacturing facility
- Punching processes, including Integra's in-house designed and built 'Punch-IT Coil Line'
- Laser cutting, servo electric bending, notching, fastening, welding powdercoating and assembly
- Integra will make your vision real

DISCRIMINATORS

- Strong and clear design philosophy
- 25 Years experience
- 100% Australian owned family business
- Award Winning Enterprise
- We empower our clients through design
- We empower our clients through execution
- We have deep knowledge, insights and experience
- Innovation is in our blood

KEY PARTNERS

- Ironside Defence and Mining
- Design Synergy
- Synergy

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Professional Services		●
Research & Development		●

KEY CUSTOMERS

- Defence and emergency response vehicles
- Public transport infrastructure
- IT and Electrical enclosures an infrastructure
- Merchandising and customer information systems

QUALITY APPROVALS & AWARDS

- ISO 9001 Quality Assuranced
- VIC Manufacturing Hall of Fame Business of the Year 2013
- Lifetime Achievement Awards - 2011 - 2014
- NBAA Enterprise & Innovation Award 2012



Dado Banjanovic
Managing Director
Ipsum Systems & Management (ISM) Pty Ltd
21 Victoria Street, Melbourne VIC 3000
Tel: +61 (0) 412 777 826
Email: dado@ipsumsystems-au.com

CAPABILITIES

- Systems Engineering (Agile/Waterfall/Hybrid methodology)
- Software Systems Assurance Engineering
- Safety Engineering
- Telecommunications Engineering (Satellite Engineering Cyber Security Network Engineering)
- Product Engineering (Software, RF/E3, Mechanical, Electrical and Industrial Automation Engineering)
- Data and Configuration Management
- Test and Evaluation (Agile/Waterfall/Hybrid methodology)
- ILS

DISCRIMINATORS

- All consultants have Australian security clearances
- All consultants have ITAR training and are ITAR cleared
- All consultants have multi-discipline knowledge
- Immaculate record of completing complex projects within AUS Defence with high customer satisfaction
- Culture of constant training and improvement to meet customer needs

KEY PARTNERS

- C4 Engineering Pty Ltd

KEY CUSTOMERS

- AUS Department of Defence
- AUS Federal Government Agencies
- AUS Local Government Agencies

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering		●
Electrical Systems		●
Modelling & Simulation		●
Professional Services		●
Research & Development		●
Safety Systems		●

CAPABILITIES

- Risk Assurance - System Safety Program Training and Products
- Software Assurance - Lifecycle Management and Planning of Software Safety Functions
- Health and Wellbeing - Planning and Delivery of Wellbeing Programs and Seminars
- Governance and Culture - Business Continuity Planning and Management System Development
- Augmented Reality - Training and Development Solutions

DISCRIMINATORS

- Consultants have and maintain sponsored Government Security Clearances
- Employ the Agile Project Delivery Method - value driven, highly visible and continuous stream of information
- Established International Defence clients outside of Australia
- Proven track record in complex Land and Maritime Defence platforms
- Innovative/Sustainable solutions - Analysis Techniques/ Implementation Plans/Training - More than personnel filling

KEY CUSTOMERS

- Thales
- Nova
- Bombardier
- NZDF

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation		●
Professional Services	●	●
Safety Systems	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- ISO 9001:2015

CAPABILITIES

- Fabrication of Large Industrial Structures - Wind Towers, Bridges, Gantries, Masts, etc
- Solar Systems - Commercial and Residential
- Mobile Crane Services to 200 Tonne
- Fabrication of Telecommunication Towers
- Non Destructive Testing - Level 3 in UT, MP, DP, Eddy Current
- Machining - CNC Lathe and Milling
- Maintenance Services - Mechanical and Electrical
- Industrial Coatings - Incl Level 3 NACE Inspection capability

DISCRIMINATORS

- Very large manufacturing facility located in Regional Victoria - Portland
- Access to a deep water Port - Port of Portland
- Subsidiary of Keppel Corporation Singapore - Multinational backing and resources - <http://www.kepcorp.com>
- Employ 360 personnel - Large and flexible workforce providing impressive fabrication capacity
- Provide fabricated structures to Australian and International welding and quality standards
- Generate welding procedures in house to European, American and Australian Standards
- Undertake NDT testing in house to Australian and International quality standards
- ISO accredited quality management system and also work to customer requested QMS

KEY PARTNERS

- Keppel Corporation
- BlueScope Steel
- Portland Aluminium
- Lincoln Welding Australia

KEY CUSTOMERS

- Vestas
- Alcoa
- Goldwind
- Siemens Gamesa

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Electrical Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Metal Fabrication		●

QUALITY APPROVALS & AWARDS

- ISO 9001
- 2018 Victorian Manufacturing Hall Award Winner
- Telstra Regional Award Winner 2002



KINEXUS

www.kinexus.com.au

Steve Woodward
Manager
Kinetic Defence Services Pty Ltd
470 Collins Street, Melbourne VIC 3004
Tel: +61 3 9982 0300
Email: swoodward@kinexus.com.au

CAPABILITIES

- Permanent Recruitment
- Contract Recruitment
- Workforce planning and insights
- HR processes and practice set up
- Industry Benchmarking
- Bid support
- Market mapping and testing
- Workforce insights, demographics and forecasting

DISCRIMINATORS

- Kinexus has the intel, and knows how to deploy it to your advantage
- Highest quality delivery process
- Lower the risk of sourcing talent due to our rigour and understanding of Defence Industry
- Produce the annual Defence Industry Salary Survey and bi-annual Kinexus 'Defence Industry Insights' report
- Access to an exclusive network of security-cleared professionals
- 4 specialist teams – Land, Sea, Air and ICT, we're experts, not generalists
- 18 years in Defence – many of our consultants have worn a uniform
- 23 dedicated defence consultants – more than all of our competitors put together

KEY PARTNERS

- TFTC - The Future Through Collaboration
- AIDN
- DTC

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Professional Services			●
Research & Development			●
Training Services			●



KPMG

www.kpmg.com.au

Mike Kalms
Defence Industry Lead Partner
KPMG
Tower 2, 727 Collins Street, Docklands VIC 3008
Tel: +61 3 9288 5555
Email: mkalms@kpmg.com.au

CAPABILITIES

- Financial management, costing, budgeting and reporting services
- Assessing and accessing R&D tax incentives and grants
- Technology advisory involving strategy and governance, security and controls and project assurance and support
- Business reform support covering planning, developing, executing and reporting on major transformation initiatives
- Project lifecycle support including proposal development support and independent review
- Predictive analytics and asset management (full system life cycle) services for primes and SMEs
- Business advice including strategy (domestic and export) and business case production, process improvement
- Specialist SME and family business advisory services

DISCRIMINATORS

- Proven track record supporting complex defence programs leveraging over 1,100 cleared consultants
- Experienced engineers and scientists with relevant industry experience
- Global network with 174,000 people across 155 countries
- Australia's premier R&D Incentives and grants practice
- Engineering and asset management for maximising the performance and value of physical assets
- Experienced analytics, information and modelling group that helps organisations leverage data resources

KEY CUSTOMERS

- All parts of Defence and Defence Industry
- Able to work within an ITAR/TAA environment

QUALITY APPROVALS & AWARDS

- Vanguard Leader in Procurement 2015
- Top 50 Providers to Know – 2014 and 2015
- Management Consultant of the year 2016
- ISO9001 accreditation, ISO55000 assessors

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Professional Services			●
Research & Development			●

LEAN DESIGN AUSTRALIA

LEAN DESIGN AUSTRALIA

www.leandesign.com

Gary Stewart
Managing Director
Lean Design Australia Pty Ltd
2 Benjamin Drive, Lara VIC 3212
Tel: +61 (0) 400 888 186
Email: garystewart@leandesign.com.au

CAPABILITIES

- Early stage Concept Development - Contestability - Systems Packaging & Design + Component Design & Analysis
- Robust Business Case before Design + Affordability and Producibility & Risk Modeling before drawn in CAD
- Optimization of Product Design + Remediation to Reduce Weight & Cost + Remediation to Optimize Functionality
- Remediation to Overcome Durability and Sustainment Issues + MRL-TRL-SRL+ Producibility & Confidence Risk Indexes
- Process Optimization and Process Redesign - Manufacturing Processes + Product Development Processes
- Material and Service Acquisition Processes + Design for Service, Maintenance & Upgrade (Sustainment)
- Lean Design & Design for 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 for Manufacture: 20-40% Cost Reduction 50-90% reduction in Manufacturing complexity
- Result: Lower Cost, Better Quality, less problems. 90% of program problems eliminated before they ever exist
- Design of Product as a System: 30-50% Cost Reduction 90% better Quality outcomes 10-25% shorter program leadtimes
- 90% of Design changes before drawn in CAD Result: Far less problems, far lower cost, shorter timelines - less Risk
- 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 outcome
- 90% better Affordability & Producibility outcomes 90% 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 PARTNERS

- Munro & Associates, LLC
- Design Profit, Inc

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Modelling & Simulation	●	●
Professional Services		●
Research & Development		●
Training Services		●

KEY CUSTOMERS

- US DoD
- DARPA/AFRL
- BAE: Astute
- Elec Boat: Virginia



LEONARDO AUSTRALIA

www.leonardocompany.com/en/global/oceania/australia

Thomson Hill
Head of Sales & Marketing
Selex ES Australia Pty Ltd
19 Rocklea Drive, Port Melbourne VIC 3207
Tel: +61 3 9698 0400
Email: thomson.hill@leonardocompany.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 Subsystems Combat Management Systems (CMS)
- Earned Value Management
- Support & Repair Facilities

DISCRIMINATORS

- Ability to provide full Turn Key Solutions including platforms and capabilities
- Leonardo global reach for experience, know-how, technological solutions and Supply Chain
- 50-year of leadership proven by Combat Systems and sensors installed in more than 100 naval units
- Full Member of the Defence Industrial Security Program (DISP)
- Procurement Capability using SC21 Standards
- Access to Defence Restricted Network (DRN) and Defence Stores
- Provider of Communications Upgrade for ANZAC Frigates

KEY PARTNERS

- Fincantieri

KEY CUSTOMERS

- Australian Defence Force
- United Kingdom Ministry of Defence
- Ministero Della Difesa (Italy)
- Italian Navy

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Research & Development		●
Through Life Support	●	●
Training Services		●

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 14001
- DISP

CAPABILITIES

- One stop source for Asset Life Extension
- Metallurgical, Mechanical & Corrosion testing
- Failure investigations
- Chemical analysis & PMI
- Advanced & conventional Non-Destructive Testing (NDT)
- Third party Inspection & Pressure vessel Inspection
- Hydro-static pressure testing
- WPS & PQR Development & verification

DISCRIMINATORS

- Single point of contact for Comprehensive range of tests
- Australia wide coverage for on-site testing
- Advanced NDT Services - PEC, 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 Australia Williamstown & Bandiana VIC- Commo
- BAE Systems Australia Defence Edinburgh SA
- Australian Submarine Corporation SA - Osborn
- Origin Energy

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Heating, Ventilation & Air-Conditioning Systems		●
Metal Fabrication		●
Outfitting & Raw Material		●
Professional Services		●
Research & Development		●



CAPABILITIES

- Integrated Logistic Support
- Level of Repair Analysis
- Logistic Support Analysis Records
- Logistic Support Analysis
- Tendering Support
- Failure Modes, Effects and Criticality Analysis
- ILS Training Courses - Training needs analysis, design, development and delivery
- Technical Documentation - compliance to Defence Standards as well as IETP development/conversion and S1000D

DISCRIMINATORS

- Over 35 years of Defence and Industry Knowledge and Experience in ILS
- Innovation through application of technology and experience
- Specialist software supporting ILS requirements aligned to DEFAUST standards
- Specialist in delivery and management of LSA and LSAR
- Extensive experience in data conversion services and tools
- Transparency and reliability of service
- Experience in both defence and defence industry service support
- Cost competitive through innovation and efficiency in delivery of capability

KEY PARTNERS

- Nova Systems
- KBR
- Qinetiq

KEY CUSTOMERS

- Airbus
- Capability Acquisition and Sustainment Group
- NIOA
- BAE Systems

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services	●	●
Through Life Support	●	●
Training Services		●

QUALITY APPROVALS & AWARDS

- AS/NZS 9001:2015
- ADM Essington Lewis Trophy 2009
- Defence Industry Security Program



M.BRODRIBB PTY LTD

www.brodribb.com.au

Richard Brodribb
Managing Director
M.Brodribb Pty Ltd
15 Carroll Crescent, Glen Iris VIC 3146
Tel: +61 3 9832 0222
Email: sales@brodribb.com.au

CAPABILITIES

- Defence approved transformer manufacturer
- DC charger systems
- Cathodic protection rectifiers
- ISO 9001:2015 certified Manufacturer of dc systems and transformers
- Custom designed transformers for low noise, low mag signature

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 PARTNERS

- Partner with 3C cathodic protection
- Partner with Airport Lighting Specialists
- Distributor Klaschka relays
- Supply SAFT, Yuasa, Exide

KEY CUSTOMERS

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

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- SAA certification some products
- IPD supplier Excellence Award 2007

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Electrical Systems	●	●
Through Life Support	●	●



MACKAY DEFENCE

www.mackayrubber.com.au

Olaf Alm
Sales Manager – Defence
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Email: olaf.alm@mackayrubber.com.au

CAPABILITIES

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

DISCRIMINATORS

- Technical Services, encompassing mathematical modelling and product development - we do difficult
- DISP members and ITAR/EAR complaint with approved secure manufacturing facility and key employees vetted by AGVSA
- Trusted partner of the Defence Science and Technology Group (DST Group) developing enhanced products
- Specialist materials from globally sourced suppliers e.g. aeronautical materials: ablatives, pre-preg, and adhesive
- NATA certified laboratory and 3D laser non-contact scanning
- Clean room facilities
- Participant of the Supplier Continuous Improvement Program (SCIP)
- Experienced Defence Exporter: USA, Singapore, Germany and the UK

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Modelling & Simulation	●	●
Outfitting & Raw Materiel	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Signature Management	●	●
Through Life Support	●	●

KEY PARTNERS

- ASC: Technical Support Agency (TSA)
- Defence Science and Technology Group
- Socitec
- Leap Australia

KEY CUSTOMERS

- Australian Submarine Corporation
- BAE Systems - Australia, UK and USA
- Singapore Technologies Engineering
- Capability Acquisition and Sustainment Group

QUALITY APPROVALS & AWARDS

- AS/NZS ISO9001:2015
- AS/NZS ISO14001:2015
- ISO/IEC17025:2005 (NATA approved Laboratory)
- 2018 Essington Lewis Awards, Category Winner

CAPABILITIES

- MacLean Electrical is a specialist supplier of hazardous area electrical and related products
- Supporting industries that demand high levels of reliability in extreme conditions and environments
- Australian distributor / stockist of Hawke Transit Systems (Multi Cable Transit Systems) MCT'S
- Major supplier of cables (Shipboard & Military Specifications) and supporting cable management products
- Dedicated project group for end to end supply chain execution
- Inventory management to meet project site requirements
- Global supplier network of electrical and related equipment manufacturers e.g. cable ladder, glands and cable ties
- On site design software & installation training for multi cable transits

DISCRIMINATORS

- Hawke Transit Systems (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

- Australian distributor for HTS
- Hawke Transit System - www.hawke-hts.com

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Outfitting & Raw Materiel	●	●
Research & Development	●	●
Through Life Support	●	●
Training Services	●	●

KEY CUSTOMERS

- ASC Pty Ltd - AWD Project (ongoing)
- BAE Systems - LHD (complete)
- Woodside Energy
- ConocoPhillips

QUALITY APPROVALS & AWARDS

- ISO9001:2008 Certified by LRQA
- HTS - UNE-EN-ISO 9001:2000
- HTS - MED 96/98/EC



CAPABILITIES

- Recruitment services for Defence skills including Engineers, IT, Scientists (STEM) , defence cleared and trades
- Labour hire
- Outsourced project managed teams

DISCRIMINATORS

- Servicing Defence, primes and SME suppliers for over 29 years
- Access to largest network of defence contractors
- Connected to over 15% of Australia's work force

KEY PARTNERS

- Perform Zone

KEY CUSTOMERS

- CASG
- DSTG

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Outfitting & Raw Materiel	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●



MARAND

www.marand.com.au

Alex Lyon
Business Development Manager
Marand Precision Engineering Pty Ltd
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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 design and build

DISCRIMINATORS

- Lower cost and more agile than Australian prime contractors
- 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

KEY PARTNERS

- BAE Systems (Aust.) - Machined Titanium supply
- AW Bell - Precision casting supply
- Ronson Gears - Gear manufacture supply

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Outfitting & Raw Materiel	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●

- Lay-up and assembly tooling for all metallic and carbon fibre composite assemblies
- Highly efficient DC Electric motors/generator production
- Fatigue testing equipment & training devices
- Through Life Support and Sustainment

- Largest Australian manufacturing supplier on F-35 program
- Ability to successfully manage large and diverse supplychains on complex Defence projects
- Awarded for success in completing complex technical transfer on Defence programs
- Ability to embed Engineers into Customers for Technology Transfer

KEY CUSTOMERS

- Lockheed Martin (Source Acceptance Approval)
- BAE Systems (Source Acceptance Approval)
- Boeing
- CEA Technologies

QUALITY APPROVALS & AWARDS

- AS/EN 9100C, ISO 9001, ISO 14001, ISO 17025
- 2014 - CIPS international procurement project of the year
- 2014 - BAE UK- MAI procurement award best relationships award
- 2014 Manufacturers monthly Endeavour award - Manufacturer of the year



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
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CAPABILITIES

- Provision of engineering services including design, simulation, and system engineering
- Provision of Maintenance Engineering support, ILS, TLS and MRO

DISCRIMINATORS

- Significant track record in supporting defence primes
- Highly capable and experienced staff

KEY PARTNERS

- Dassault Systemes

- Supply, maintenance and development of ISS solutions using, CATIA, DELMIA, ENOVIA and 3DExperience PLM System
- Development and delivery of virtual training solutions

- Cost competitive through utilisation of technology and efficient business processes
- National coverage with offices in Melbourne, Sydney, Brisbane and Perth

KEY CUSTOMERS

- ASC
- AWD Alliance
- Australian Maritime Safety Authority
- BAE Systems

QUALITY APPROVALS & AWARDS

- AS9100 Rev D
- ISO 9001:2015
- Dassault Systemes Accredited Solutions Partner
- Dassault Systemes Accredited Education Partner

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Safety Systems	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●



MET OPTIX

www.metoptix.com.au

David Eldridge
General Manager
DWE Systems Pty. Ltd.
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Email: david@metoptix.com.au

CAPABILITIES

- 3D laser scanning and modelling
- 3D measurement with fixed and portable coordinate measuring machines (CMMs)
- Surface roughness and form measurement
- Surface defect analysis
- Hardness testing
- Force and materials testing
- Optical alignment using alignment telescopes and laser alignment systems
- Laser projection system for automated assembly

DISCRIMINATORS

- The world's leading metrology and testing products
- Factory-trained and accredited technicians for calibration and verification of equipment accuracy
- Software support engineers able to provide first-level support on all products sold in ANZ
- 24/7 support services via a network of world-wide offices of our Partners and overseas Principals
- Regional support for Victorian customers

KEY PARTNERS

- Taylor Hobson
- Alicona
- TESA
- 8tree

KEY CUSTOMERS

- Ruag Australia
- Thales
- Department of Defence
- Royal New Zealand Airforce

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Design & Engineering	●	●
Fluid Systems	●	●
Metal Fabrication	●	●
Outfitting & Raw Materiel	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Signature Management	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●



MFB PRODUCTS

www.mfb.com.au

Dean Sutton
Sales
MFB Products Pty Ltd
105 Lewis Road, Wantirna South VIC 3152
Tel: +61 3 9801 1044
Email: dsutton@mfb.com.au

CAPABILITIES

- Australian Owned - Design & Manufacture of 19" Racks, Enclosures & Accessories
- Design & Manufacture of Ruggedised / MilSpec Enclosures to conform to (MIL-STD-167 & MIL-STD-901D)
- Manufacturer of precision sheetmetal components & assemblies
- CNC Turret Punching, Laser Cutting, CNC Folding, Welding, Light Engineering, Fastening, Powdercoating

DISCRIMINATORS

- Australian Manufacturer - 50 years
- Experienced Design Team
- Investment in latest manufacturing technology
- Product & market knowledge of more than 50+ combined years
- Ability to generate 3D modelling of designs
- Backup manufacturing / production facilities

KEY CUSTOMERS

- Defence - Army, Navy, Airforce
- Raytheon
- Thales
- BAE Systems

QUALITY APPROVALS & AWARDS

- ISO 9001: 2015
- ISO 14001: 2015
- SCEC certified Class B&C
- AIDN Defence Supplier

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Electrical Systems	●	●
Metal Fabrication	●	●

Neil Morrison
General Manager
Milspec Manufacturing Pty Ltd
874 Knight Road, North Albury NSW 2640
Tel: +61 2 6022 7100
Email: neilmorrison@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, CNC Sheet Metal & Fabrication including Robotic Welding
- 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 PARTNERS

- Work for most Defence Prime Contractors

KEY CUSTOMERS

- BAE - Nulka Decoy Canister system. Complete ma
- Aust Dept of Defence - C4i Mountings & Cables
- Rheinmetall MAN - C4i instruments mountings
- Thales - manufacture of Ship/Air Comms Units

QUALITY APPROVALS & AWARDS

- ISO9001:2015
- AS9100 Rev D
- ISO3834
- IPC 610 and 620

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Electrical Systems	●	●
Metal Fabrication	●	●
Outfitting & Raw Material	●	●
Through Life Support		●

Xavier Sebastiani
Sales & Applications Engineer
Moog Australia Pty Ltd
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Email: xsebastiani@moog.com

CAPABILITIES

- Design and manufacture of precision motion control and flow control solutions for subsea applications
- Hydraulic, pneumatic, electromechanical, electrical and hybrid actuation technologies
- Experience in acoustic signature, power density, reliability and integrity levels, shock and vibration
- Design & qualification services: modelling, risks, failure mode and effects analysis, obsolescence management
- Logistics and Supply Chain Management of Moog install base across Aerospace and Defence systems
- High fidelity test and simulation platforms (up to 7 degrees of freedom)
- System level assembly, integration and qualification services
- Sustainment of defence platforms with in-country assets

DISCRIMINATORS

- Global company with over 70 years of heritage supplying mission critical motion control solutions
- Experienced supplier of actuation systems on submarines and unmanned underwater vehicles
- Demonstrated the transfer of technology from our global Centres of Excellence to Australia
- Optimised multi-use lean facility in Melbourne with R&D lab, A&T area, training facilities and security system
- Export compliant and trained workforce in DEC, ITAR, BAFA
- Secured facility equipped with military grade surveillance and cyber security network
- Proprietary test software and hardware, covering environmental and full systems testing

KEY PARTNERS

- Moog Inc and subsidiaries

KEY CUSTOMERS

- Air: RAAF, Boeing, RAN, BAE, Cobham, NZDF
- Land: COA, M113, ASLAV, BAE, GD, Elbit, Thales, NZDF
- Sea: BAE, ASC, Austal, Thales, NZDF
- Research: DST Group, CSIRO & University Partners

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- MIL-STD-901D/MIL-STD-167
- MIL-STD 810F
- ANSI/ESD S20.20/IPC-A-610/IPC-7711/IPC-7721

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development		●
Through Life Support	●	●
Training Services	●	●



MOTHERSON ELASTOMERS PTY LIMITED

www.motherson.com.au

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Email: jasongilhooley@au.motherson.com

CAPABILITIES

- Rubber anti-vibration products including rubber mouldings and rubber to metal bonded components
- Engine Mounts, Transmission Mounts, Machine Mounts, Wheel Chocks
- Rubber Extruded products for automotive sealing systems and industrial extrusions
- Rubber compound mixing- Natural rubber EPDM, Chloroprene, Nitrile, Viton etc.
- Uncured precision calendared sheet

DISCRIMINATORS

- Full Systems Solutions Provider
- Through Life Support and Sustainment
- In house Industrial Chemist and Development Team
- Continuous product and rubber compound development
- Technical support from a world class automotive component manufacturer
- In house testing facility
- QAD ERP
- High Volume Bespoke Rubber Mixing Facility

KEY PARTNERS

- Samvadrhana Motherson Group
- RMIT
- MIND Infotech
- Australian Plastics and Rubber Institute

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Heating, Ventilation & Air-Conditioning Systems	●	●
Modelling & Simulation	●	●
Outfitting & Raw Material	●	●
Propulsion Systems	●	●
Through Life Support	●	●
Tooling	●	●

KEY CUSTOMERS

- Fenner Dunlop
- Blackwoods
- Bombardier Transportation
- Paccar Trucks

QUALITY APPROVALS & AWARDS

- ISO 9001
- ISO 14001



NEZKOT PRECISION TOOLING & ENGINEERING

www.nezkot.com

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Email: adrian.sansonetti@nezkot.com

CAPABILITIES

- High Precision CNC Machined Parts
- Complex Tooling & Moulds
- Welding & Fabrications
- High Precision Assembly Jigs & Fixtures
- Turnkey Automated Solutions
- Special Purpose Machinery

DISCRIMINATORS

- Outstanding supplier performance record on global defence programs
- Boeing Approved Metrology Center
- Dynamic Range Of Engineering Expertise
- AS9100D Accredited
- ITAR/EAR Compliant

KEY PARTNERS

- CSIRO

KEY CUSTOMERS

- Boeing Defence Australia
- Rheinmetall
- CEA Technologies
- Boeing Aerostructures Australia

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Tooling	●	●

QUALITY APPROVALS & AWARDS

- AS9100 D
- ISO9001



NJ ENGINEERING PTY LTD

www.njengineering.com.au

Neil Mathews
General Manager
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39 Lakeside Drive, Broadmeadows VIC 3047
Tel: +61 (0) 408 452 537
Email: neil@njengineering.com.au

CAPABILITIES

- Modern CNC Workshop
- Turning up to 8000mm
- Milling up to 6000mm 5 axis
- Welding to AS1554 10 Tonne lifting capacity
- In-house design & long term consultant business partnerships
- Dedicated costing, documentation, process & quality software

DISCRIMINATORS

- Full system provider
- Modern & well maintained engineering facility
- Large CNC machine capacity
- Employing long term highly skilled engineers, machinist, boilermakers & assembly teams
- Local collaboration & business partners
- Dedicated costing, documentation, process & quality software
- Avetta accreditation

KEY PARTNERS

- ABEN Technologies
- George Apted & Associates
- Leeding Edge Mechanical Engineers
- Specialised Welding Products

KEY CUSTOMERS

- CEM International
- CSIRO
- Downer Group
- Laing O'Rourke, VLINE

QUALITY APPROVALS & AWARDS

- Hume City Council Business Award Winner 2014

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Fluid Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Research & Development	●	●
Through Life Support	●	●
Tooling	●	●



NOVA SYSTEMS

www.novasystems.com

Ian Salter
General Manager - Maritime and Future Systems
Nova Systems
Level 2, 95 Coventry Street, Southbank VIC 3006
Tel: +61 3 9024 1851
Email: ian.salter@novasystems.com

CAPABILITIES

- Maritime Test & Evaluation
- Sea Trials Planning & Conduct
- Combat & Platform Systems Engineering
- Safety, Certification & Seaworthiness
- Acquisition & Sustainment Logistics
- Project Assurance, Risk & Controls
- Risk Management
- 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
- Established Nova subsidiaries in UK, Singapore and NZ exporting Nova services to Europe and Asia
- Experience in maritime combat and platform systems integration

KEY PARTNERS

- GVH Aerospace (member of Nova Group)
- Geoplex

KEY CUSTOMERS

- CoA
- ASC
- Raytheon
- Saab

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering		●
Professional Services		●
Safety Systems		●
Signature Management		●
Through Life Support		●
Training Services		●

QUALITY APPROVALS & AWARDS

- ASNZS 4801
- ISO 14001
- ISO 9001

CAPABILITIES

- Securetec DrugWipe saliva drug tests – testing for presence of cocaine, cannabis, amphetamine, methamphetamine, opiates, benzodiazepines, methadone, buprenorphine
- Securetec DrugWipe surface testing devices
- Proscreen urine drug test cups
- Intoximeter Breathalysers
- Drug and Alcohol Testing Services
- D&A Policy Development and Implementation
- Drug and Alcohol Testing and Sample Collection Training

DISCRIMINATORS

- Supply to all Australian State Police Jurisdictions
- Supply AFP, Border Force and Customs
- Supply Departments of Justice and Corrections Australia-wide
- Supply Department of Defence in Forensic and Scientific Equipment
- Sole Australian & New Zealand distributor for the Securetec DrugWipe range of products
- The DrugWipe is a proven, reliable, mobile screening device which requires a very small amount of saliva and a result is achieved in 8 minutes.
- Collection of the saliva sample is achieved in seconds

KEY PARTNERS

- Securetec

KEY CUSTOMERS

- ADF
- Australian Federal Police
- All State Police Jurisdictions

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 certified by SAI Global
- Drug detection devices compliant with AS 4760 and AS/NZS 4308
- Breathalysers certified to AS 3547

CAPABILITIES

- Engineered Training Solutions
- Training Support Services
- Virtual Reality
- Emulation & Simulation
- Generic Trainers - Full & Part Task
- Integrated Logistics Support & Logistics Support Services
- Integrated Logistics Software tools - OmegaPS & Analyzer
- Full design & Development services for all your needs

DISCRIMINATORS

- Expert knowledge in the design, development, and implementation of logistics and training solutions
- Global operations across Australasia, Europe, North America, and the Middle East
- Over 60 years experience delivering and supporting solutions to international defence forces and industry
- Product life cycle solutions from design requirements, integration, application, through support
- Integrated products compliant to international standards
- Support of legacy training devices
- Integrated customer support
- In-house R&D, design, production of custom training solutions

KEY PARTNERS

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

KEY CUSTOMERS

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

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation	●	●
Professional Services	●	●
Through Life Support	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- Letter of Recognised Supply
- Defence Recognised Supplier
- Government Endorsed Supplier



PERFORM ZONE

www.performzone.com

Daryl Keeley
Managing Director
Perform Zone
183 Burwood Road, Hawthorn VIC 3122
Tel: +61 3 9573 1554
Email: darylk@performzone.com

CAPABILITIES

- Vendor Management
- Recruitment Software
- Leadership training

DISCRIMINATORS

- 25 Recruitment agencies under one banner
- Meets Australian Defence Cyber Security standards
- DISP accredited
- Robust innovative eHRMS
- Proven track record in providing defence cleared contractors

KEY PARTNERS

- MACRO Recruitment

KEY CUSTOMERS

- ASD
- DHS
- DFAT
- DST Group

QUALITY APPROVALS & AWARDS

- Complies ISO 9001
- Complies with ISO 27001

SUBMARINE CAPABILITY AREAS

Professional Services

PRODUCTS	SERVICES
	●



PHASOR INNOVATION

www.phasorinnovation.com

Adam Silvester
Managing Director
Phasor Innovation Pty Ltd
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Email: adam.silvester@phasorinnovation.com

CAPABILITIES

- Radio Frequency (RF) engineering design, analysis, test & measurement, modelling and simulation
- Radar Cross Section (RCS) engineering, analysis, modelling, measurement and optimisation
- Antenna design, modelling, testing and optimisation for platforms
- Co-site interference and interoperability analysis and optimisation
- Radiation Hazard safety assessments for personnel, ordnance and fuels to Australian and international standards
- Electromagnetic Compatibility engineering design and analysis to commercial and military standards
- Electronic Warfare (EW) system and component design and analysis
- Radio Communications, Radar, EW and Phased Array engineering consultation services

DISCRIMINATORS

- Experts providing Radio Frequency specialist engineering for Defence and civilian organisations
- Experienced senior engineers and technical staff with extensive experience solving a diverse range of problems
- Proven track record supporting Defence, CASG and Defence Industry Prime Contractors and Major Service Providers
- Advanced Computational Electromagnetics Modelling (CEM) and Simulation tools
- Radio Frequency laboratory for testing and measurements up to 50 GHz
- Innovative solutions to technical challenges using latest tools and techniques
- All consultants have high level security clearances and ITAR approvals
- Currently supporting SEA-1000 Future Submarine Program

KEY CUSTOMERS

- Department of Defence
- Defence Industry Prime Contractors
- Defence Industry Major Service Providers

SUBMARINE CAPABILITY AREAS

Communication Systems

Design & Engineering

Electrical Systems

Modelling & Simulation

Professional Services

Research & Development

Signature Management

PRODUCTS	SERVICES
	●
	●
	●
	●
	●
	●
	●



POWERJUMP

www.powerjumptechnologies.com.au

Lorna McLachlan
Managing Director
Powerjump Technologies Australasia Pty Ltd
120 Queens Parade, Fitzroy North VIC 3068
Tel: +61 (0) 478 665 257
Email: lorna@powerjumptechnologies.com.au

CAPABILITIES

- Electrical Design Technology
- Certified representative Australia/New Zealand for Zuken technology (www.zuken.com)
- Electrical design software sales, training & support
- Electrical design contract resources
- Electro/mechanical technology integration

DISCRIMINATORS

- Proven track record in complex defence requirements
- Strong representation among major harness manufacturers
- In person, on site support services by qualified engineers

KEY PARTNERS

- Zuken

KEY CUSTOMERS

- Lockheed Martin Australia
- AME Systems Pty Ltd
- Elbit Australia Pty Ltd
- L3 Communications Australia Pty Ltd

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Through Life Support	●	●
Training Services	●	●



PROJECT DIRECTOR

www.projectdirector.com.au

Lucas Maughan
Director
Project Director International Pty Ltd
65 Mount Eliza Way, Mount Eliza VIC 3930
Tel: +61 (0) 487 435 748
Email: lucas@projectdirector.com.au

CAPABILITIES

- Capability innovation, development, execution and oversight including long term programs
- Global execution and sequencing activities
- Cross functional team's liaison, harmonisation and performance management
- Complex integration activities and unique dynamic problem-solving systems
- Strategy & structure requirements analysis and functional implementation
- Utilisation of diverse high-performance teams
- Enhancement activities
- Project and program management – Concept to completion and integration

DISCRIMINATORS

- Proven global capability innovation, development & delivery affording continuous advantage
- Development, integration and utilisation of diverse high-performance teams
- High level complex problem solving, understanding and resilience in wholly new and emerging fields
- Extensive innovation experience to achieve safe, secure and resilient capability within complex environs
- Capability review and needs based assessment to program launch, development and integration
- Utilisation of unique enabling assets to effect successful outcomes
- Capability to pre-empt, mitigate & respond to adverse intent outcomes
- Unique oversight capabilities

KEY CUSTOMERS

- Department of Defence
- Government agencies

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●



PROMAND

www.promand.com

Bernard Regan
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Tel: +61 (0) 419 891 512
Email: bregan@promand.com

CAPABILITIES

- Engine Dynamometer Test Equipment
- Transmission Dynamometer Test Equipment
- Chassis Dynamometer Test Equipment
- End of Line Test Equipment
- Emissions Test Equipment

DISCRIMINATORS

- Representing the worlds leading suppliers of engine, transmission, chassis and end of line equipment
- Machine service and support from Melbourne

KEY PARTNERS

- Froude
- Hofmann Tesys
- Power Test
- Sensors

KEY CUSTOMERS

- ADF - Navy
- ASC
- Cummins
- MTU

QUALITY APPROVALS & AWARDS

- OEM based

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Propulsion Systems		●	
Research & Development		●	
Through Life Support		●	



QUALITY PEOPLE

www.qualitypeople.com.au

David Silverman
National Business Manager
Quality People Pty Ltd
Level 1, 561 North Road, Ormond VIC 3204
Tel: +61 (0) 433 829 471
Email: QPVIC@qualitypeople.com.au

CAPABILITIES

- Quality People provides substantial numbers of Independent Contractors and Permanent Placements
- We solve your diverse and unique resourcing requirements in a timely and cost effective manner
- Industry Sectors; Government, Defence, Building/Construction, Utilities, Mining, Oil & Gas, and Consulting Groups
- Sourcing quality, hard-to-get specialists; ICT, Engineering & Construction Professionals
- Rapid talent acquisition for projects
- Management of Independent Contractors
- Ensuring candidates have necessary clearances/police checks or the ability to obtain them

DISCRIMINATORS

- Quality People specializes in finding quality, hard-to-get professionals
- Specializing in Independent Contractors; facilitating rapid business expansion, while reducing ongoing HR risk
- Quality People assists former Defence Force Personnel seeking to transition into a Civilian career
- Quality People has a partnership with Cross Culture Consulting, providing access to skilled Indigenous Labour hire
- Quality People specializes in remote location placements

KEY PARTNERS

- Cross Culture Consulting
- Indigenous Business Network

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Professional Services			●



QUARTEK PTY LTD

www.quartek.com.au

Frank Corica
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Suite 1.06, 87 Gladstone Street, South Melbourne VIC 3205
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Email: frank.corica@quartek.com.au

CAPABILITIES

- Static Strength Analysis
- FEA - Linear Static, Dynamic, Thermal and Buckling, Non-Linear, Large Displacement and Post-Buckling Behaviour
- Fatigue and Damage Tolerance (F&DT) Analysis - Crack Growth, Fatigue Stress & Life Prediction
- Structural Design & Weight Optimisation
- Highly Experienced with Metallic, Composite & Hybrid Structures
- Capability Enhancement
- Project Management
- Through Life Support & Life Extension Programs

DISCRIMINATORS

- Achieved 'World's Best Practice' Customer Satisfaction Rating by Airbus Australia Pacific
- Team Previously Engaged on Many Projects of Global Significance, Including F35 JSF, A400M, A380, A350, Hawkei and Chinook CH-47D
- Lean Cost Structure
- Flexible, Client Tailored Engagement Models
- Remote & Off-site Working Expertise - Framework Established for '24 Hour Business Cycle'
- Agile and Dynamic Team Able to Continuously Provide Exceptional Value
- Privately Owned Australian Company
- ITAR Ready

KEY PARTNERS

- ATTAR
- AIDN

KEY CUSTOMERS

- Boeing Defence Australia
- Airbus Australia Pacific
- QuEST Global Engineering

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- CASG DSS Panel Member

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Modelling & Simulation		●
Professional Services		●
Research & Development		●
Through Life Support		●



REALM - SOLUTIONS FOR THE FUTURE

www.realmsolution.com.au

Jeff Walsh
Principal
REALM Solutions (SA) Pty Ltd
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Email: jwalsh@realmsolution.com.au

CAPABILITIES

- Service Life assessment & sustainment programs for submarine, maritime, land, aerospace & electronic systems
- Systems engineering for capability upgrade, technology insertion, obsolescence & risk management
- Project definition, requirements & design review, test & evaluation, acceptance and transition into service
- Feasibility & scoping studies for life extension, condition monitoring, sonar & noise-signature management
- Maintenance Engineering - analysis, reliability & serviceability assessment, maintenance & shut down planning
- Logistics - definition, analysis, determination, implementation, supportability & life cycle management
- Sustainment - training, simulation, laboratory environments, facilities, buildings & infrastructure
- Specialty engineering for reliability, survivability, safety, EMI & Env compatibility, producibility & maintenance

DISCRIMINATORS

- Specialist Vibro-Acoustic applications with state-of-the-art instrumentation, data acquisition & analysis
- Capability in Asset Condition Monitoring, structural-fatigue life, and reliability centered maintenance
- Defence secure buildings, assets, infrastructure & support systems - design, delivery & accreditation
- Design & delivery of C4ISR in radar, communications, IT, security & electronic warfare sub-systems
- Training systems - requirements analysis, design, delivery & competency assessment
- Quality, Safety, Risk, IP / ITAR - system audit, case review, assessment, commercial compliance training
- Project, Business & Operations management - review, performance assessment, training and accreditation
- Commercial business transformation - cultural change, skills mapping, competency & workforce transition

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering	●	●
Electrical Systems		●
Fluid Systems		●
Modelling & Simulation		●
Heating, Ventilation & Air-Conditioning Systems		●
Professional Services		●
Research & Development		●
Safety Systems		●
Signature Management	●	●
Through Life Support		●
Training Services	●	●

KEY PARTNERS

- Resonate Systems Pty Ltd
- KneeDeep Training RTO
- Motiv Engineering - Design & Certification
- STM Consulting / Insight Telecommunications

KEY CUSTOMERS

- BMT Defence & Security
- Australian Rail Track Corporation
- Capability Acquisition & Sustainment Group
- Defence Science Technology Group

QUALITY APPROVALS & AWARDS

- ISO9001 Defence Quality Auditor
- Project & Business Management
- Training & Assessment - design & delivery
- Chartered Engineer assessor: Aerospace & ITEE



RELAY INDUSTRIAL

www.relayindustrial.com.au

Rohan Lay
General Manager
Gippsland Bolts and Fasteners Pty Ltd
13-17 Princes Highway, Sale VIC 3850
Tel: +61 3 5144 5633
Email: rohanlay@relayindustrial.com.au

CAPABILITIES

- Bolts, nuts, washers and fasteners to DIN, ISO, EN and AS standards
- Customised fastening components and fixing systems
- Locking washer systems including Nord-Lock and Solid-Lock
- Precision and miniature bearings and all bearing types

DISCRIMINATORS

- Bolts and fasteners for critical applications according to DIN, ISO, EN, AS and Military standards
- Dedicated team of fastening professionals with experience in the military sector
- Unique fastening solutions to address demanding applications such as high load, high vibration etc.
- Highest level of traceability for all bolts, nuts, washers, screws and fasteners
- Over 130,000 SKU's from stock at our central warehouse with rapid delivery

KEY PARTNERS

- F. Reyher Nchfg GmbH & Co.
- Solid-Lock Fastening Systems BV
- Timken USA

KEY CUSTOMERS

- Rheinmetall MAN Military Vehicles
- BAE Systems Australia
- Wood Group
- UGL

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Metal Fabrication	●	●
Outfitting & Raw Material	●	●
Tooling	●	●



RMIT UNIVERSITY

www.rmit.edu.au/defence

Professor Michelle Gee
Director - Sir Lawrence Wackett Centre
Royal Melbourne Institute of Technology Ltd
GPO Box 2476, Melbourne VIC 3004
Tel: +61 3 9925 6115
Email: defence@rmit.edu.au

CAPABILITIES

- Autonomous systems & artificial intelligence
- Composite & multifunctional materials (incl micro/nano materials)
- Human performance & human-machine interaction
- Hydrodynamics, propulsion, fuels & energy
- Information, communication and sensor technologies incl sonar systems
- Structural health monitoring and repair technology
- Waste treatment, water & oxygen harvesting
- Workforce training & development

DISCRIMINATORS

- Full spectrum science and engineering
- Extensive facilities for research and testing
- Focus on outcome-oriented research
- Culture of industry interaction
- History with Defence education and training
- Record of successful DST and DMTC research projects
- Proximity to research and industry partners
- Procedures for protecting sensitive work

KEY PARTNERS

- Defence Materials Technology Centre
- DST Group
- CSIRO
- ATSB (Australian Transport Safety Bureau)

KEY CUSTOMERS

- Boeing, Thales, RUAG, BAE Systems
- Defence: DASA, CASG
- DefendTex and LEAP Australia
- US ONR, AFRL

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●
Through Life Support	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- Top 100 QS World ranking for RMIT Engineering
- \$10m plus revenue from Defence/industry 2016-18



RPC TECHNOLOGIES PTY LTD

www.rpctechnologies.com

James Zegir
Business Development Manager - Defence
RPC Technologies Pty Ltd - Corio
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Email: james.zegir@rpctechnologies.com

CAPABILITIES

- Composite Systems - localisation of manufacturing by partnering with your existing suppliers
- Sonar housings - Manufacture and supply of sonar housings - domes and windows
- Local Manufacture - RPC can provide local manufacture to aid with achieving AIC
- In house research and development and advance composite technologies
- Design, engineering, manufacturing and application of composite materials to Defence applications
- Experience manufacturer for Maritime composite equipment - doors, sonar domes, masts, Yard arms and railings
- Specialty fabrication (Bisalloy Grades, Stainless and Duplex Steels, 5000, 6000 and 7000 Series Aluminium)
- Manufacture of composite Hull casings

DISCRIMINATORS

- Advanced composite engineering and manufacture
- Sonar dome manufacture for Frigates and Submarines
- In-house laboratory and material science expertise
- Ability to provide localised solutions for Primes
- Ability to provide through life support
- International partnership with Tods Defence

KEY PARTNERS

- Tods Defence

KEY CUSTOMERS

- Defence
- ASC Pty Ltd
- Thales Underwater systems
- BAE Systems Australia

QUALITY APPROVALS & AWARDS

- ISO 9001
- AS 4801
- LoRS from DMO
- HMA Innovation Award Winner 2010

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Metal Fabrication		●
Through Life Support		●



RUBICON ASSOCIATES PTY. LTD.

www.rubiconassociates.biz

Goran Dubljevic
Director
Rubicon Associates Pty Ltd
203/434 St Kilda Road, Melbourne VIC 3004
Tel: +61 3 9867 2522
Email: goran@rubiconassociates.biz

CAPABILITIES

- Naval architecture, advanced structural and stress analysis - FEA and CFD
- Marine, Mechanical and Electrical Engineering Design
- Design for Shock, Vibration and Acoustic analysis and platform integration
- Forensic engineering
- Shipyard Supervision, Owner Engineer and FAT Services
- Business case support including scenario modeling, cost estimating
- Shipyard Management

DISCRIMINATORS

- Proven track record working with Defence and Defence Prime Contractors
- Australia's independent Naval Ship Design and Engineering Organisation
- Specialist in applying multidisciplinary teams to address most complex naval integration tasks
- Experienced in developing Shipbuilding Strategies, Shipyard Systems and Processes, Shipyard Management
- Ability to work both above and below the line to deliver exceptional project outcomes

KEY CUSTOMERS

- Capability Acquisition and Sustainment Group
- Defence Primes
- Defence Systems / Equipment Suppliers

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 Quality Management System
- DISP

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Electrical Systems		●
Fluid Systems		●
Heating, Ventilation & Air-Conditioning Systems		●
Modelling & Simulation		●
Professional Services	●	●
Propulsion Systems		●
Research & Development		●
Safety Systems		●
Through Life Support		●



SAAB AUSTRALIA

www.saab.com.au

Andrew Petersen
General Manager Land
Saab Australia Pty Ltd
15-29 Bank Street, South Melbourne VIC 3205
Tel: +61 3 9697 3700
Email: Andrew.Petersen@au.saabgroup.com

CAPABILITIES

- Specialist defence and security systems integrator
- Australia's leading combat systems integrator
- Development and management of security and protection systems
- Provision and integration of submarine platform control systems
- Autonomous and tethered underwater vehicles for submarine and mine warfare operations
- Provision and integration of warships and submarine integrated communications systems

DISCRIMINATORS

- Major defence company designing and building latest generation conventional submarines
- Proven track record in achieving complex systems integration
- The leading provider of Combat Management Systems to the RAN
- The integration of command and control and communications with in service weapon systems
- In service Support of defence C2 and software systems
- Provides and supports Australian Army's Ground Based Air Defence (GBAD) and C-RAM capabilities
- Leader in the development and integration of command and control and communications systems

KEY PARTNERS

- Global reach via Saab AB
- The Saab Global Supply Chain
- BAE Systems Australia as Prime for Land 400
- Numerous local Australian sub-contractors

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems	●	●
Design & Engineering	●	●
Modelling & Simulation	●	●
Professional Services		●
Research & Development		●
Signature Management	●	●
Through Life Support		●
Training Services		●

KEY CUSTOMERS

- Royal Australian Navy
- Royal Australian Air Force
- Australian Army
- Key Defence Prime Systems Integrators

QUALITY APPROVALS & AWARDS

- AS/NZS ISO 9001:2008
- Defence Employer of Choice Award 2015
- DMO / ADM Award for Excellence in PM 2013



SAFETECH

www.safetech.com.au

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Business Development Manager
Safetech
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Tel: +61 3 5127 4566
Email: chrisw@safetech.com.au

CAPABILITIES

- Custom designed lifting solutions
- Products locally manufactured under supervision of our design engineers
- Heavy Capacity Scissor Lift Engineering specialists
- Vehicle Lift and EWP Engineering specialists
- In house Electrical Engineers
- Systems Engineers (software and data security)
- Loading Dock Solutions Engineers

DISCRIMINATORS

- Remote system analysis enabled for immediate troubleshooting
- Custom products are designed for each application from the ground up
- The users experience is at the core of every design, a refined user interface makes complex operations feel simple
- We only service and support our own products, meaning our techs are product experts in our entire range

KEY PARTNERS

- Owner of Tieman Dock Products division
- Southwell (USA)
- Ifm Australia

KEY CUSTOMERS

- RAAF – Vertical Transportation and Dock Equip
- Australian Defence Force – Materials Handling
- John Holland Group – Multi User Vehicle Lift.
- BHP Billiton – mining and maintenance

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Metal Fabrication	●	●
Professional Services	●	●
Research & Development	●	●
Safety Systems	●	●

QUALITY APPROVALS & AWARDS

- Victorian Manufacturing Awards Winner 2019
- National winner Telstra Business Awards 2006
- Holder of 6 Patents, 10 Trademarks



SCIENTIFIC MANAGEMENT ASSOCIATES (OPERATIONS) PTY LTD

www.sma.com.au

John Robertson
General Manager

Scientific Management Associates (Operations) Pty Ltd
19 Shierlaw Avenue, Canterbury VIC 3126

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Email: john.robertson@sma.com.au

CAPABILITIES

- Full suite of Integrated Logistics Support services and training
- Logistics Engineering, including FMECA, LORA, RCM
- Logistic Support Analysis
- Learning, Training and Development solution activities
- Training Needs Analysis, Design, Development and Delivery
- Training Media Analysis and Training Aid Development, including simple to complex solutions
- Technical documentation management, authoring and illustrating

DISCRIMINATORS

- Over 30 years experience with major Defence and industrial projects, using world's best practices
- Ability to provide innovative, independent total ILS solutions tailored to client needs
- Proven ability to integrate into prime contractor organisations
- Significant knowledge of engineering and design processes which underpin support package development
- Excellent reputation for successful completion of major projects within budget and on time
- Successful in exporting ILS capabilities to European and Asian countries
- Quality Accredited to International Standard ISO 9001
- Registered Training Organisation with the Australian National Training Authority

KEY CUSTOMERS

- Australian Defence Force
- Capability Acquisition and Sustainment Group
- Defence Primes
- Defence System/Equipment Suppliers

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation	●	●
Professional Services	●	●
Through Life Support	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- AS/NZS 9001:2015
- Registered Training Organisation (RTO)
- Defence Industrial Security Program
- Defence Recognised Supplier



SIEMENS LTD

www.siemens.au/defence

Andrew Seal

Head of Defence and Maritime

Siemens Ltd

885 Mountain Highway, Bayswater VIC 3153

Tel: +61 (0) 429 384 521

Email: andrew.seal@siemens.com

CAPABILITIES

- EMCS (engineering, monitoring, and control system) combines all onboard subsystems of a submarine.
- Permasyn propulsion features ultracompact construction with IGBT converter technology integrated into the motor
- The PEM fuel cell developed for use as an air-independent power supply for submarines
- The SG-DC supply and switching system delivers power supply to the propulsion system on submarines
- Medium and low voltage power and distribution systems and battery management systems
- PLM software solutions for Ship Program & Product Management, Integrated Ship Design & Engineering
- Research and Development of electrical, power and propulsion technology
- PLM software solutions for Digital Ship Construction, Ship Service & Support

DISCRIMINATORS

- Market leader in PLM software solutions for submarines
- Only proven provider of PEM Fuel Cell AIP solutions for submarines with in excess of 15 years of deployed systems
- Unique battery management solutions for Lithium Battery technology
- Chosen PLC partner for submarine control systems (incl. BAES, DCNS, TKMS)
- Unique Permasyn integrated propulsion motor technology with 15 years of active service
- Tier 1 provider for major Australian build programs (ANZAC Class provider of all electrical and control systems)
- Only provider of electrical propulsion solutions to Royal Australian Navy (HMAS Choules, Canberra Class LHDS)
- Provider of Royal Australian Navy's first High Voltage Power solution on ship

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Propulsion Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Signature Management	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●

KEY PARTNERS

- Siemens AG
- ATOS
- BAE Systems
- DST Group

KEY CUSTOMERS

- BAE Systems
- Naval Group
- Navantia
- Royal New Zealand Navy

QUALITY APPROVALS & AWARDS

- ISO 9001



SIMUSERV

www.simuserv.com

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

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
- Highly non-linear FEA - Geometric & contact nonlinearities, material non-linearities, solution dependent loading
- Customised non linear material models - Explosion, Plasticity, Creep & Progressive Failure
- Simulation software development & customisation - Pre/ Post customisations & solver level customisations
- Planning, training & management of analysis projects & R&D programmes

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
- Provide multi-dimensional solutions with software purchase or leasing combined with training and/or consulting
- Preferred FEA solution in the Defence, Aerospace and Nuclear markets in Australia

KEY PARTNERS

- Dassault Systemes

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Research & Development	●	●
Training Services	●	●

KEY CUSTOMERS

- Australian Defence Force Academy (ADFA)
- ANSTO and CSIRO
- DST Group
- CASG



SKF AUSTRALIA PTY LTD

www.skf.com.au

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
- Global Maritime Supplier

KEY PARTNERS

- SKF AB, Sweden

KEY CUSTOMERS

- ASC/AWD
- BAE-LAND M113
- Babcock
- MacTaggart Scott

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- ISO9001
- AS9100
- Six Sigma Culture

**SPEE3D**www.spee3d.com

Aerin Langworthy
Marketing Manager
EFFUSIONTECH PTY LTD
5 Wayne Court, Dandenong VIC 3175
Tel: +61 (0) 403 879 709
Email: contact@spee3d.com

CAPABILITIES

- 3D print metal parts at production speed and cost
- The world's only metal 3D printers to compete with traditional manufacturing on speed and price
- Print metal parts up to 1m diameter x 700mm high at 100 grams per minute
- Print in readily available metal powders: Aluminium (6061 & pure)
- Print in readily available metal powders: Copper (pure)
- Print in readily available metal powders: Brass
- Print in readily available metal powders: Bronze
- Print in readily available metal powders: Aluminium bronze

DISCRIMINATORS

- Print metal parts up to 1m diameter x 700mm high at 100 grams per minute
- The world's leading technology to print in Copper (pure) and Aluminium Bronze

KEY PARTNERS

- Charles Darwin University

KEY CUSTOMERS

- FIT Additive Manufacturing Group
- Charles Darwin University
- Swinburne University
- University of Delaware

QUALITY APPROVALS & AWARDS

- German design Award Nominee 2018
- Finalist - Victorian Premier's Design Award
- Winner Tech23 2016
- Winner Bosch Venture Award 205

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Outfitting & Raw Material	●	●
Professional Services	●	●
Propulsion Systems	●	●
Research & Development	●	●
Tooling	●	●

**STAHL METALL
ENGINEERING****STAHL METALL**www.stahlmetall.com

Anton Fonseca
Business Development Manager
Stahl Metall Pty Ltd
5/1470 Ferntree Gully Road, Knoxfield VIC 3180
Tel: +61 3 9015 4583
Email: af@stahlmetall.com

CAPABILITIES

- Cable Assembly
- Electrical Control Systems
- Interconnect Components
- Electrical Enclosures
- Custom Metalwork
- Complete Box Assembly
- RF/Coax Cable Assembly
- Custom Cable Assembly

DISCRIMINATORS

- Specialized in design and manufacture in same location
- Proven track record in complex Defence platforms
- Reliability, precision and resistance to demanding and harsh environments.
- Very competitive pricing
- Ontime delivery
- Cable assemblies (IPC-620 certified)
- Complete Electrical/Communication Enclosure/Box Assembly

KEY PARTNERS

- Positronic
- Glenair
- Hypertac
- ITT Cannon

KEY CUSTOMERS

- Leonardo
- EOS Defence
- BAE System
- CEA

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems	●	●
Design & Engineering	●	●
Electrical Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Metal Fabrication	●	●
Professional Services	●	●
Research & Development	●	●
Through Life Support	●	●
Tooling	●	●

QUALITY APPROVALS & AWARDS

- ISO9001-2015
- AS9100
- IPC-620



STERLING PUMPS PTY LTD

www.SterlingPumps.com.au

Alex Merry
Internal Sales
Sterling Pumps Pty Ltd
14 Sharnet Circuit, Pakenham VIC 3810
Tel: +61 3 5941 3400
Email: Alex@SterlingPumps.com.au

CAPABILITIES

- Custom Pump Design, pump prototyping and complete pump platform manufacture
- Onsite test facilities
- Seawater Pumps
- Fuel Transfer Pumps
- Fire water pumps
- Manufacturing in super duplex, duplex, Monel, Marine Bronzes
- Large existing range of pump designs

DISCRIMINATORS

- Australian OEM
- Custom design to suit any pumping purpose, in specialized materials
- Proven in-house design, engineering, manufacturing and testing capability
- Repair and support services for pumps

KEY PARTNERS

- WPIL
- Rutchi Pumps
- Finder Pumps
- Gruppo Aturia

KEY CUSTOMERS

- Exxon
- Chevron
- KBR
- AGL Loy Yang

QUALITY APPROVALS & AWARDS

- ISO 9001

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Fluid Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Research & Development	●	●
Through Life Support	●	●



STRATEGIC CONNECTIONS GROUP

www.strategicconnectionsgroup.com

Alan Burns
Managing Director
Strategic Connections Group Pty Ltd
50 Upper Heidelberg Road, Ivanhoe VIC 3079
Tel: +61 (0) 418 555 705
Email: alan@strategicconnectionsgroup.com

CAPABILITIES

- Project management and professional services, combining engineering, technical and business skills
- Document development, control and configuration management
- Management of change
- Product/System Development Management
- QMS systems, human factors, risk consulting
- Supply chain & project procurement services
- Market analysis & supply chain strategy

DISCRIMINATORS

- Strong relationships with international advanced manufacturers
- Strong relationships with international OEM parts suppliers
- In depth knowledge of logistics streams both domestic and international
- Over 40 years experience in heavy transport engineering services
- Proven track record in delivery of complex transport engineering management, refurbishment & procurement programs

KEY PARTNERS

- Tramobus
- Tricycle Developments
- Institute of Railway Technology

KEY CUSTOMERS

- Downer
- Yarra Trams
- DEDJTR

QUALITY APPROVALS & AWARDS

- ISO 9001 pending
- AVETA Certification

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services		●
Research & Development		●
Safety Systems		●



SWAGELOK EASTERN AUSTRALIA

ea.swagelok.com

Steve Foster
Business Development Manager
Fluid System Technologies (ES) Pty Ltd
42 Metrolink Circuit, Campbellfield VIC 3061
Tel: +61 3 9303 2100
Email: steve.foster@swagelok.com.au

CAPABILITIES

- Complete HP & LP System Design and Fabrication
- Maritime & Naval approvals
- Valves and Fittings to 4,134 Bar, including O-ring free
- Specialty alloys
- Pressure Reduction Stations
- Fluid System Evaluation & Advisory Service, including ultrasonic testing (per DNV & NAVSEA)
- Precision Welding System
- Complete Training and Through Life Support programmes

DISCRIMINATORS

- Limited Lifetime Warranty on Materials & Workmanship
- Over 10,000 NSN catalogued modular systems and components readily available
- Proven experience across a multitude of Surface & Submarine platforms
- Global Network of 200 Service Centres to insure support
- Victorian Design and Fabrication capability with Global Support
- Australian security clearance holder

KEY PARTNERS

- Swagelok Company
- Flow Tech Australia

KEY CUSTOMERS

- BAE
- Raytheon
- RAAF
- Exxon

QUALITY APPROVALS & AWARDS

- ISO 9001:2015

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Fluid Systems	●	●
Research & Development	●	●
Through Life Support	●	●
Training Services		●



SWINBURNE UNIVERSITY OF TECHNOLOGY

www.swinburne.edu.au

James Davern
Business Development Manager
Swinburne University of Technology
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Tel: +61 3 9214 5374
Email: jdavern@swin.edu.au

CAPABILITIES

- Quantum technology: computing; measurement and sensors; communications and information networks
- Cybersecurity: cross-layer key management; multi-factor authentication; cloud security; adaptive cyber defence
- AI: agent-agent intelligent negotiation for collaborative learning, adaptive logistics and resource optimisation
- Development and integration of advanced IoT devices and robots, including real-time data analysis
- Data to Decisions: data collection, preparation and curation, analytics, visualisation for machine learning
- Advanced materials and manufacturing processes for reduced signature
- Advanced training systems development incorporating AI, data curation, AR/VR, cognitive sciences
- Industry 4.0 demonstration factory (scale) with design, visualisation, and additive manufacturing capabilities

DISCRIMINATORS

- Ability to assemble multi-disciplinary team of globally recognised experts in short time period
- Proven excellent performance with Defence projects
- Culture of active engagement with Defence and the Defence Industry to meet challenges
- Both higher education and vocational / TAFE education and training capabilities to meet entire span of workforce
- Nation leading Industry 4.0 research and education capabilities (Siemens Test Lab)
- Experience in combined data analytics, AI, IoT and cybersecurity research teams for whole-of-systems outcomes

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Communication Systems		●
Design & Engineering		●
Electrical Systems		●
Fluid Systems		●
Metal Fabrication		●
Modelling & Simulation		●
Professional Services		●
Research & Development		●
Signature Management		●
Through Life Support		●
Tooling		●
Training Services		●

KEY PARTNERS

- BAE Systems Australia
- Boeing Defence Australia
- Siemens Australia
- Thales Australia

KEY CUSTOMERS

- Australian Department of Defence
- US Department of Defence
- Australian Defence Primes
- Australian Defence Industry SMEs

QUALITY APPROVALS & AWARDS

- Top 2.1%, THE World University Rankings 2017
- Top 2.2%, QS World University Rankings 2017
- Top 2%, Academic Ranking of World Universities
- Top 300 in Physical Sciences - THE



SYPAQ SYSTEMS PTY LTD

www.sypaq.com.au

Amanda Holt
CEO
SYPAQ Systems Pty Ltd
Level 5, 441 St Kilda Road, Melbourne VIC 3004
Tel: +61 3 9867 2565
Email: aholt@sypaq.com.au

CAPABILITIES

- Founded in 1992, Australian owned, operates throughout Australia and Asia with around 200 employees
- Advanced professional consulting, systems integration and support services in the Defence and Aerospace domains
- Maritime C4ISREW systems integration services
- Project & Program Management; Capability Definition Development, Acquisition and Sustainment Logistics
- Platform, Systems, Communications, Electrical & Electronics Engineering
- Software Development & Integration; Verification and Validation; Test Program Management and Execution
- ICT System Architecture/Design; Managed Application Support Services; Business Analysis
- Next Generation Autonomous Systems

DISCRIMINATORS

- Australian representative for UTC Submarine Systems, including oxygen generation and CO2 removal systems
- Proven methods and procedures compliant with ISO, USA and NATO Standards
- Supplier of the Arcturus JUMP20 UAS capability - Tier II, High Performance, High Payload, Versatile, VTOL MTUAS
- Full motion video (stored & live) and still image (satellite)
- SAR, SIGINT, HUMINT, ELINT, Track Data, etc
- Sensor and Platform Agnostic
- C4ISR systems currently deployed on UK Frigate Fleet
- Leading innovator and provider of Earned Value Management and Independent Boards of Review

KEY PARTNERS

- UTC
- Arcturus UAV
- Sirius

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies	●	●
Communication Systems		●
Design & Engineering		●
Electrical Systems	●	●
Heating, Ventilation & Air-Conditioning Systems	●	●
Modelling & Simulation		●
Professional Services		●
Research & Development	●	●
Safety Systems		●
Signature Management		●
Through Life Support		●
Training Services		●

KEY CUSTOMERS

- Department of Defence (CASG, Navy, Army & RAAF)
- CIOG, AGIO, DSTG
- Industry - Lurssen, BAe Systems, L3
- Defence Innovation Hub

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 Certified by Lloyds Registry
- Member, Defence Industrial Security Program



TBH

www.tbh.com.au

Dave Andrews
Director
Tracey Brunstrom & Hammond Pty Ltd
Level 17, 500 Collins Street, Melbourne VIC 3000
Tel: +61 3 8692 9800
Email: dave.andrews@tbh.com.au

CAPABILITIES

- Project planning, scheduling and controls
- Earned value management
- Baseline management
- Cost management
- Schedule risk analysis
- P3M/PMO (project, program and portfolio management)
- Claims/Dispute resolution and expert witness
- Risk management

DISCRIMINATORS

- Founded in 1965
- Australian owned with export to Asia, Europe and UAE
- SME status with 140 Australian practitioners (>90% full time salary positions)
- Locations: Melbourne, Adelaide, Canberra, Brisbane, Perth and Sydney
- Highly regarded experience in planning and scheduling with a local and international presence
- Cross-regional collaboration in servicing all major industries
- >90% repeat business from satisfied customers

KEY PARTNERS

- Optus
- Lockheed Martin
- Nova Systems
- Mace

KEY CUSTOMERS

- Telstra (JP2047)
- KPMG/CASG
- Fujitsu/CIOG
- Aurecon/E&IG

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Modelling & Simulation		●
Professional Services		●

QUALITY APPROVALS & AWARDS

- ISO9001:2008
- AS4801:2001
- ISO14001:2004
- International Project Excellence Award 2013



THE DESIGN TECHNOLOGY COMPANY

www.designtechco.com.au

Jonathan Bannister
Managing Director
The Design Technology Company Pty Ltd
A4 8 Rogers St, Port Melbourne VIC 3207
Tel: +61 3 9036 3662
Email: jonathan.bannister@designtechco.com.au

CAPABILITIES

- Provide a low risk scalability option for Design and Engineering teams
- 18 Mechanical Designers in Victoria
- Rapidly INTEGRATE into our client's teams
- Work on (or off) our client's site
- Able to supply key CAD software (Solidworks, Inventor, AutoCAD, + other technologies)
- Have up-to-date hardware for efficient operation

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

KEY PARTNERS

- Cornell Design

KEY CUSTOMERS

- Navantia Australia
- Leidos Australia
- Thales Australia
- Supacat

QUALITY APPROVALS & AWARDS

- Internally managed and audited QMS



THRUST MARITIME PTY. LTD.

www.thrustm.com

Ben Healy
Managing Director
Thrust Maritime Pty. Ltd.
Level 2, 18A Brixton Rise, Glen Iris VIC 3146
Tel: +61 (0) 411 967 285
Email: benhealy@thrustm.com

CAPABILITIES

- We specialise in the design, manufacture, integration of maritime lifting appliances
- A-Frames and Launch and Recovery Systems (LARS) for recovery of Hyperbaric Lifeboats and Subsea ops
- Launch and Recovery Systems (LARS) for Submarine rescue
- Launch and Recovery Systems (LARS) for fast rescue craft and small boats
- Strong capability in naval architecture, FEA (finite element analysis), stability analysis
- Offshore motions and lifting studies
- We have developed and patented a product called Winshackle which helps in boat recovery

DISCRIMINATORS

- Experienced defence provider - key capability provider to Navy
- We have field proven capability that is world leading in offshore recovery operations
- We are leading the oil field industry globally - which is well in advance of the defence capability in this field
- We have developed and patented a product called Winshackle which helps in boat recovery

KEY CUSTOMERS

- RAN (through prime Phoenix International)
- Woodside
- Chevron
- INPEX

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 certified by Lloyds Register QA
- ISO 14001:2015 certified by Lloyds Register QA
- AS 4801:2001 certified by Lloyds Register QA
- Equipment is either DNV or Lloyds certified

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Fluid Systems	●	●
Metal Fabrication	●	●
Modelling & Simulation	●	●
Outfitting & Raw Materiel	●	●
Professional Services	●	●
Research & Development	●	●
Safety Systems	●	●
Through Life Support	●	●
Tooling	●	●
Training Services	●	●



TITOMIC LIMITED

www.titomic.com

Mich Mak
General Manager - Marketing
Titomic
1/371 Ferntree Gully Road, Mount Waverley VIC 3149
Tel: +61 3 9558 8822
Email: mich.m@titomic.com

CAPABILITIES

- OEM for Titomic Kinetic Fusion Additive Manufacturing systems for large scale 3D Printing on demand in bureau
- Parts manufactured by Titomic Kinetic Fusion saves time, cost materials and is comparable to casting
- Restorative metal additive repair of worn corroded propellers, drive shafts, turbine blades, rudders and hulls
- Component Additive manufacture of missile rings, torpedos, propellers, drive shafts, turbine blades and rudders
- Corrosion resistant dual-wall metal piping & valves to replace laser cladding & polymer coatings
- Patented manufacture of metal load bearing structures and pipe using Titomic Kinetic Fusion
- Metal ballistic and hypersonic coatings, anti-fouling and hydrodynamic metal coatings
- Custom mechanical properties by fusing dissimilar metals: titanium, aluminium, nickel, invar, copper, steel, invar

DISCRIMINATORS

- Print large complex shapes with no size constraints: current build envelope L x W x H : 9 x 3 x 1.5 m (40.5m3)
- Print monocoque, seamless parts, current rotational build size L x Diameter : 5 x 2m
- Cold process, no melting of metal, no heat oxidation, distortion and can deposit on thermally sensitive substrates
- Industry leading build speeds to manufacture in minutes and hours
- Deposition efficiency as high as 95% (material and process dependent)
- Fuse dissimilar metals for multiple performance or multi-layer stronger yet lighter armour fabrication
- Metalise composites for strength and next generation ballistics protection

KEY PARTNERS

- International Titanium Association
- CSIRO, IMCRC, RMIT and Swinburne University
- VDA - Maritime, Submarines, Land
- ASTM - American Society for Testing and Materia

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering		●
Heating, Ventilation & Air-Conditioning Systems	●	
Metal Fabrication	●	●
Research & Development		●
Signature Management	●	
Through Life Support		●
Tooling	●	●

KEY CUSTOMERS

- Maritime - Fincantieri
- Defence - TAU Systems
- Aerospace - The Boeing Company
- Oil & Gas / Mining - Callidus

QUALITY APPROVALS & AWARDS

- ISO 9001:2015
- Best Maritime Innovation Award at Pacific 2017



TOWERS GROUP PTY LTD

www.towersgroup.com.au

Ryan Oswin
Director
Towers Group Pty Ltd
Office 34/68-72 York Street, South Melbourne VIC 3205
Tel: +61 (0) 421 846 787
Email: ryan@towersgroup.com.au

CAPABILITIES

- Project Management and Project Management Support
- Science and Technology Support
- Research and Development
- Materials Science
- Capability Development
- Systems Engineering
- Electrical Engineering
- Mechanical Engineering

DISCRIMINATORS

- Current domain knowledge and valuable experience resulting from previous full-time ADF service on operations
- Towers is a Defence Industry Security Program (DISP) member and sponsors all staff Australian Security Clearances
- As a Small to Medium Enterprise (SME), Towers is lean and deliver best value for money for it's clients
- Towers maintains a commitment to ongoing professional development of staff
- Towers is a member of multiple professional bodies and affiliations to remain at the forefront of best practice
- Towers is a member of the Defence Service Support, DST Group ReSET and Defence Simulation Standing Offer Panels.
- The Towers Team comprises of highly qualified and experience experts in their relevant fields

KEY CUSTOMERS

- Capability and Acquisition Sustainment Group
- Defence Science and Technology Group
- Major Service Providers (Downer, KBR)
- AGIS Group Pty Ltd

QUALITY APPROVALS & AWARDS

- ISO 9001:2015 Quality Management Systems

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Battery Technologies		●
Communication Systems		●
Design & Engineering		●
Electrical Systems		●
Modelling & Simulation		●
Professional Services		●
Propulsion Systems		●
Research & Development		●
Signature Management		●
Through Life Support		●
Training Services		●



TRIMCAST PRODUCTS PTY LTD

www.pelicanaustralia.com

Justin Evans
Sales Manager
Trimcast Products Pty Ltd
2 Forbes Close, Knoxfield VIC 3180
Tel: + 61 3 9765 1500
Email: justin.evans@pelican.com

CAPABILITIES

- Engineered protective packaging solution design, build and testing
- Global resources of Pelican Products including production and support on all continents worldwide
- Planning, engineering, manufacturing and QA processes to produce world-class rugged and custom packaging
- Factory-trained solution-focused technical sales team and dedicated major programs group
- Scalable production capabilities - to produce single unique case solutions through to higher volume LRIP/FRP
- Trusted Partner relationship with ADF, NZDF, US DoD & other NATO-aligned Defence Forces & Prime Contractors
- V&V, FI&T and custom testing - rigorous testing capabilities to replicate / exceed adverse deployed conditions
- Designed and manufactured to DEFAUST 1000c packaging standards

DISCRIMINATORS

- Unique Australian Industry Capability
- Global reach: 7 continents, 140 countries, 6 manufacturing facilities, 7 Advanced Case Centres
- Makers of the largest (volume) and longest (length) rotomold containers in the world
- Solutions are superior to timber packaging in product protection and re usability

KEY PARTNERS

- Pelican Products

KEY CUSTOMERS

- Rolls Royce
- Lockheed Martin
- Airbus
- Boeing

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Design & Engineering			●
Outfitting & Raw Materiel		●	
Through Life Support		●	●



UNEK BENDING CO PTY LTD

www.uneek.com.au

Teddy Oudin
Sales Engineer
Uneek Bending Co Pty Ltd
63 Mark Anthony Drive, Dandenong South VIC 3175
Tel: +61 3 9771 4900
Email: teddy@uneek.com.au

CAPABILITIES

- Specialised welding workforce including pressure components
- Engineering Expertise and design capabilities
- AutoCAD and Solidworks capabilities
- Project Management
- Tube, Pipe and Section bending including CNC Bending
- Tube, Pipe and Section Rolling including CNC Rolling
- Assembly and packaging capabilities
- GTAW(Tig), GMAW (Mig STT) and Orbital welding processes

DISCRIMINATORS

- Modern Facilities
- Latest CNC Machinery
- Provide One-Stop shop including design, manufacturing, assembly and packaging
- Highly trained and experienced operators and staff
- Proven track record as a supplier to the defense industry
- From prototyping to high volume production capability

KEY PARTNERS

- G B Galvanising
- Ultimate Laser
- A.W Bell Pty Ltd
- Excite Powdercoating

KEY CUSTOMERS

- Thales
- BAE Systems
- A. W. Bell Pty Ltd
- Mercedes Benz Aust/Pacific

SUBMARINE CAPABILITY AREAS		PRODUCTS	SERVICES
Design & Engineering		●	●
Metal Fabrication		●	●
Outfitting & Raw Materiel		●	●
Through Life Support		●	●

QUALITY APPROVALS & AWARDS

- ISO 9001:2008 (Quality)
- In the process of upgrading to ISO 9001:2015
- ISO 14001:2015 (Environmental)
- ISO 18001:2007 (OH&S)



UNIFORM SAFETY SIGNS

www.uniformsafetysigns.com

Terry McMurdo
Safety Specialist/Director
Uniform Signs Pty Ltd
3-5 Amcor Way, Campbellfield VIC 3061
Tel: +61 3 9357 9820
Email: terry@uniformsafetysigns.com

CAPABILITIES

- In-house design & manufacture all types of signage, labels, stencils, engraving, decals, vehicle sticker sets
- Digital Printing, UV Printing, Screen Printing, Signs with UV Laminate or Anti-Graffiti Laminate
- Material: Aluminium, Stainless Steel, Colourbond, Polypropylene, Self Adhesive, Alucabond, PVC, Avery Reflective etc.
- On-site Signage surveys
- Installation Service
- National Representation
- Luminous signs, Luminous way finding signs/decals

DISCRIMINATORS

- Flexible signage solutions to cater for projects from start through to completion
- Fully integrated ERP platform
- 26+ plus years industry experience
- Australian owned and operated
- Average of 98.5% DIFOT
- Continuous improvement management style

KEY PARTNERS

- BHP Metals
- Avery Dennison Reflective

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Professional Services	●	●
Safety Systems	●	●



VERSALUX

www.versalux.com.au

Jorg Koch-Losekamm
General Manager - Maritime & Defence
Versalux Pty Ltd
28 Edgerton Road, Mitcham VIC 3132
Tel: +61 3 8878 2000
Email: jkoch-losekamm@versalux.com.au

CAPABILITIES

- Designing intelligent LED Lighting Solutions for Submarines, incl Navigation lights, Lighting for Human factors
- Naval Lighting Systems for Submarines comply with standards for naval ships, DNVGL, MIL-Specifications
- Providing Lighting Controls, Light Management System and Integration into IPMS
- 3D simulation of Lighting Designed based on the latest technology
- A turnkey solution; full integration, factory acceptance testing, installation & commissioning support
- Engineering, Customisation and local Manufacturing
- Lighting for Human Factors, Human Centric Lighting, Alert Lighting, Mood- and Health-Lighting
- Through-life Support, including Obsolescence Management

DISCRIMINATORS

- Proven track record of supply of complete ship sets to major platforms around the world
- An Australian market leader in lighting solutions for applications in the naval environment
- An accredited supplier to CASG and Defence Primes
- Local engineering, manufacturing, service, support and supply capabilities
- Proven design and engineering partnership credentials
- Authorised Distributor and OEM for Glamox Aqua Signal and LINKSrechts

KEY PARTNERS

- Glamox Aqua Signal
- LINKSrechts GmbH
- Monash University

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Electrical Systems	●	●
Research & Development	●	●
Safety Systems	●	●
Through Life Support	●	●

KEY CUSTOMERS

- RAN, CASG
- ASC, BAE Systems, Thales, Austal
- NSM, Norship, A&P, Taylor Bors., MTA
- Luerssen, Navantia, Naval Group,

QUALITY APPROVALS & AWARDS

- Defence Recognised Supplier
- Authorised OEM for ISO9001 Manufacturers



WAY OUT EVACUATION SYSTEMS

www.wayout.com.au

Aston Smith
Managing Director
Way Out Evacuation Systems Pty Ltd
1/27-29 New Street, Frankston VIC 3199
Tel: +61 1800 929 688
Email: info@wayout.com.au

CAPABILITIES

- Signage, Wayfinding solution design, Safety products, Tapes, Contingency Planning, Assessment/auditing & Pigment
- Wayfinding: Alternative Non-Powered Lighting & Evacuation Systems; includes Low Location Lighting (9 hour glow)
- Signage: Complete range of Photoluminescent & Reflective IMO & ISO Signage, Industrial Tapes, Pipe Markers
- Safety Products: Stair Nosings, Safety rails, Eco Crystal anti-slip coatings
- Industrial Tapes: Tenacious Tapes are market leaders and innovators supplying adhesive tape
- Contingency Planning: Risk Management Platform solution provider
- Assessment/auditing: Lloyds Register and DNV GL accredited Low location Lighting auditors
- Pigment/Paint: Luminous paint manufactured using a strontium based pigment

DISCRIMINATORS

- 25 year proven track record delivering quality to DoD/DMO, Defence Primes and SMEs
- Supplied solutions to every submarine & frigate platform since the Collins Class submarines and Anzac Frigates
- Low Location Lighting is the only accredited "Red Light" compliant system, exceeding ISO 15370 requirements
- DRSS Accreditation - Defence Recognised Supplier Scheme/ Defence Codification number Z2K90
- Complete range of IMO & ISO Signage including NATO Stock Number (NSN) Signage, Tallies and Labels
- Only Australian company accredited by Lloyds Register and DNV GL to undertake Low location Lighting audits
- Australian made High Quality, Durable Products which out last and out-perform any alternatives on the market
- Founding Member of Australian Industry Defence Network

KEY PARTNERS

- Sakerhetspartner Norden AB
- Glass Metal Industries
- Tenacious Tapes
- Parken Engineering

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Outfitting & Raw Material	●	●
Professional Services	●	●
Research & Development	●	●
Safety Systems	●	●
Through Life Support	●	●

KEY CUSTOMERS

- Defence - Capability Acquisition & Sustainment
- BAE Systems Australia
- Austal
- Australian Submarine Corporation

QUALITY APPROVALS & AWARDS

- ISO 9001: 2015
- Lloyd's Register Quality Assurance
- Victorian Manufacturing Awards Finalist 2015
- Lloyds Type Approval: Low Location Lighting



YTEK

www.ytek.com.au

Richard Yanieri
Managing Director
YTEK Pty Ltd
Level 1, 231B High Street, Ashburton VIC 3147
Tel: +61 3 9882 2052
Email: info@ytek.com.au

CAPABILITIES

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

DISCRIMINATORS

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

KEY PARTNERS

- Cray
- Woven Logic
- QBY Technologies Pty Ltd

KEY CUSTOMERS

- DST Group
- Army

SUBMARINE CAPABILITY AREAS	PRODUCTS	SERVICES
Design & Engineering	●	●
Modelling & Simulation	●	●
Professional Services	●	●
Research & Development	●	●
Signature Management	●	●
Training Services	●	●

QUALITY APPROVALS & AWARDS

- Victorian Gov Technology Innovation Grant 2015
- CSIRO SIEF STEM+ Grant 2016



AUSINDEX EXERCISE 2019

Commanding Officer HMAS Collins Commander Robin Dainty, RAN, (right) and Executive Officer HMAS Collins Lieutenant Commander Stefan Zohar, CSM, on the bridge while leaving harbour.

Victorian Defence Alliance - Submarines Membership as at August 2019

A. Noble & Son Ltd	Australian Trade & Logistics Corporation	Crowe Horwath (Aust) Pty Ltd	Glyde Metal Industries Pty Ltd
aadi Defence Pty Ltd	Australian Welding Solutions	CRP Industries Pty Ltd	GRA Supply Chain Pty Ltd
ABB Australia Pty Limited	AuTC	CT4 Pty Ltd	Green Power Solutions
Able Industries Engineering	AW Bell	Cummins South Pacific	Greencap Pty Ltd
Acacia Foundry	BAE Systems Australia	Cyber Aware	GreyScan Australia
Accurate Profile	Bambach Specialised & Industrial Cables	Cynch Security	H&H Machine Tools
ACS Australia	Baron Rubber	d-twin	Hardcat
Acto Pickering	Bartlett Manufacturing	Daromont Technologies	Hardchrome Engineering Pty Ltd
Adra Group	Beak Engineering	Dassault Systemes	Hardman Bros. Pty Ltd
Advance Anti-Slip Surfaces Pty Ltd	Beca Consultants Pty Ltd	Defence Science Institute	Hargo Engineering Pty Ltd
Aerospace Materials	Bell Fire and Rescue	DEK Corporation	Harrop Engineering Australia
Agility Logistics Pty Ltd	Bid Write	Delfab Engineering Pty Ltd	Hart Marine
Airport Metals Australia	Blue Visions	Delta Gamma RF Expert	Hasco Foundry
AKS Engineering Pty Ltd	BMP Engineering	DFP Recruitment	hdL Group
All Sat Communications	BMT Defence and Security Australia	DI Advisory Services	Henkel Australia
Alliance Automation	Bosch Rexroth	Diamond Optics	Heuch Refrigeration
Allied Technology International	Brace Technologies	Direct Edge Manufacturing	Hexagon PPM Australia
Alongside Business Consulting	Braemac Pty Ltd	Directed Technologies	Hide Away Safe Co
Altair Engineering	Brenco Aerospace	DMTC	Hofmann Engineering
Alternative Engineering	Bruck Textile Technologies Pty Ltd	Dotmar EPP	Hothouse Design
Amaero Engineering	BullEx Australia	Dowling Consultancy	Houston Engineering
AME Systems (VIC) Pty Ltd	Bullivants	Draeger Australia Pty. Ltd.	Hydac Pty Ltd
Amiga Engineering Pty Ltd	Bunjil Energy	Durrant Durrant	Hydrix Pty Ltd
AML Advisory	Bureau Technologies Group Pty Ltd	DVR Engineering Pty Ltd	I.F. Thomas & Associates
AMOG Consulting	C4 Engineering Pty Ltd	EB Fusion	Incitias
Amphenol Australia Pty Ltd	Cablex	ECA Group	Indec Consulting Pty Ltd
AMT	Calbah Industries	EnerSys Australia Pty Ltd	Induction Group
Andrew Engineering	Catten Industries Pty Ltd	Engineering Plastics Pty Ltd	Industry Defence & Security Australia Limited
ANSTO	CGB Precision Products	Enterprising Partnerships	Infosys Portland
Anywise Consulting	Cider House ICT	Envirofluid	Innovative Security & Data
ANZ Banking Group Ltd	City of Greater Geelong	EnviroRisk Management Pty Ltd	Integra Systems
AOS	CMTTP Pty Ltd	Fibre-Tech Solutions	Interchem
Applied CCM	CNC Design	Firmins Lane Engineering	Interiel
Applied Fasteners & Tooling	Codarra Advanced Systems	Fisher's (Latrobe Valley) Pty Ltd	International Consultants Centre
APR Intern (c/o The University of Melbourne)	Cold Logic	Fluid Dynamics	Intertek
AsClear Pty Ltd	Committed Solar Solutions	FPA Patent Attorneys	Invenio
Associated Foreign Exchange	Communications Connect Ltd. Pty.	Fracht Australia	Inventis Technology
Astute Electronics Pty Ltd	Communications Design and Management Pty Ltd	Frontline Australasia	Ion Systems Pty Ltd
Atlas Engineering	Community Chef	Froude Hofmann Australia	Ipsium Systems & Management
ATTAR	Compilatrix Research Corporation	Furnace Engineering	iRubber Pty Ltd (Dalsouple rubber)
Aurega Group	Complete Rubber	Furphy Engineering	Jacobs Radio Australia, JRA, Jacobs Radio
Austbrokers Countrywide Insurance Brokers	Compliancehelp Consulting	Fuse Recruitment	JB I Engineering
Austest Laboratories	Conductix-Wampfler Pty Ltd	G&R Maintenance Pty Ltd	JLB-Yaran
Australian Aerospace Engineering	Cover Craft	Gasco	Jotun Australia
Australian Precision Technologies	CQR Consulting Pty Ltd	Geelong Defence Alliance	JT Worx Pty Ltd
Australian Surface Treatments	Cromarty	GenieGrips Pty Ltd	JVAT

KBR
 Keech Castings Australia
 Keilor Flooring Xtra
 Keppel Prince Engineering
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 KPMG
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 LACCAL Consulting Pty Ltd
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 Leonardo Australia
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 M. Brodribb Pty Ltd
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 MacLean Electrical (Australia) Pty Ltd
 Macro Recruitment
 Magefekt Pty Ltd
 Mantra Group
 Marand
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 PWB Anchor
 Pyrotek
 Quality People Pty Ltd
 Quartek Pty Ltd
 Quest Sale
 R&I Instrument & Gear Co (Aust) Pty Ltd
 Rae-Line
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 Rectifier Technologies
 Redstack
 Relay Industrial
 RF Industries
 Risk Control Consulting
 RMIT University
 RMR Engineering Pty Ltd

Ronson Gears
 RPC Technologies
 RPR Trades Pty Ltd
 RPS
 RUAG Australia
 Rubicon Associates Pty Ltd
 Ryco Hydraulics
 Saab Australia
 Safetech
 Safety Risk Business Solutions
 SAGE Automation
 SAI Global
 SARA
 Sayfa Group
 Scientific Management Associates (Operations)
 Shadbolt Engineering
 Shotton Group
 Siemens Ltd
 Silverback Cargo Care
 Simuserv
 Sincore Engineering Pty Ltd
 Six Degrees of Freedom
 SKF Australia Pty Ltd
 SOS Hydrate
 Southern Cross Protection
 Southern Spreaders
 SPEE3D
 SRX
 Stabilus
 Stable Australia Pty Ltd
 Stahl Metall
 STAUFF Corporation Pty Ltd
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 SYPAQ Systems
 Systra ScottLister
 TBH
 TCF Services

Tech Rentals
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 Trustweld Engineering Pty Ltd
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 Tusk Engineering
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 Ultra Vision Lighting
 UNeek Bending
 Uniform Safety Signs
 United Fasteners
 Vative
 Versalux Lighting Systems Pty Ltd
 VEV
 Wallaby Batteries
 Way Out Evacuation Systems
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Victorian Defence Alliances



COLLINS CLASS SUBMARINES

HMAS Collins, HMAS Farncomb, HMAS Dechaineux and HMAS Sheean in formation while transiting through Cockburn Sound, Western Australia.



**VICTORIAN
DEFENCE
ALLIANCE**
SUBMARINES

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