

Defence Industry Directory

Wollongong 2021



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Introduction

Wollongong has a proud and successful history of providing innovative technology and services to both the Australian Defence Forces (“ADF”) and the global defence industry.

Wollongong’s well-developed and sophisticated innovation ecosystem keeps it at the cutting edge of applied research and industry collaboration. This focus on innovation along with a strong track record in converting technical know-how into defence capability has created a local industry that supports the ADF in maintaining its technological edge.

Wollongong companies offer a wide range of capabilities to defence, including:

- High-end welding and engineering
- Armoured steel plate
- Military-grade communications systems
- Electrical isolators and enclosures
- Specialist protective coatings
- Ruggedised computer & communication systems
- Gearboxes for land and naval platforms
- Engineering design
- Device protection software

We invite you to consider the range of capabilities covered in this directory. For further information, please contact the companies directly or Invest Wollongong.

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Web: www.investwollongong.com.au/key-opportunities/defence/



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Bisalloy

Products / Capabilities

- Bisalloy Steels is Australia's only manufacturer of high strength and high hardness quenched and tempered steel plate used for armour, protection, structural and wear resistant applications
- Applications include naval, submarine, protected vehicle, tank, police and riot squad, emergency response and armoured cars platforms
- Broad distribution network throughout Australia, Asia Pacific, the Middle East, South Africa and North America
- Able to provide speedy delivery for critical projects, in-depth product application, technical and fabrication assistance
- High specification armour has been tested and certified by numerous testing authorities and defence forces

Discriminators

- US Army qualified manufacturer of armour steel plates
- Producer of high strength/high toughness steel plates for the Australian Collins Class Submarine hull and FFG frigates
- Highly consistent and stable production, capable of both long-run production as well as small batch specialised production
- Individual plate testing for hardness and mechanical properties, with certification available per plate
- Full ballistic test reporting available across a range of ballistic threats
- Excellent long-term record and data retention allowing full traceability

Key Customers

- BAE Systems, Australia (LHD Ships, AWD Ships, FFG Frigates, M113 upgrade)
- Naval Group France (Australian Future Submarine Program)
- Australian Submarine Corporation (Collins Class Submarines)
- Rheinmetall Defence (BOXER Combat Reconnaissance Vehicle)
- Thales Australia (Bushmaster IMV vehicles)
- Plasan Sasa and Thales Australia (Hawkei Armoured Vehicle)
- US Army/Marines (M-ATV, MRAP, MTVR armoured vehicles)
- Oshkosh Defence, USA (M-ATV, MTVR armoured vehicles)
- Navistar Defence/Steel Warehouse, USA (MRAP armoured vehicles)
- Defence Science and Technology Group Australia (DSTG)
- Thai Army, Navy and Police Force
- Taiwan Army
- Indonesian Army
- Israel Ministry of Defence and Israel Army

Quality Standards & Accreditations

- ISO 9001:2015, ISO 14001:2016, ISO 45001:2018 by Lloyds Register of Quality Assurance (LRQA)
- US Army qualified to produce MIL-DTL-46100, MIL-DTL-12560 and MIL-DTL-32332 grades of armour steel
- NATA (Australia) certified mechanical testing laboratory (onsite)
- Australian Industry Quality & Achievement Award from Australian Department of Defence for supply of steel plates for Collins Class submarines
- Australian Defence Force 'Recognised Supplier'



Contact

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David Brown Santasalo

Products / Capabilities

- David Brown Santasalo has supplied more than 10,000 gear systems to a range of land and marine applications globally
- Highly reliable, assurance critical gearboxes for marine defence applications including surface ships and submarines
 - Main propulsion gearboxes
 - Lifting and jacking system gearboxes
 - Air Turbine Pump gearboxes
- Ferrous and non-ferrous materials
- Full range of gear types including single and double helical, spur, epicycle and bevel
- High accuracy gears with optimised tooth geometry
- Configurations to suit gas turbine, diesel and electric prime movers including CODOG, CODAG, CODLAG, COGAG
- Gearbox repair – service, maintain, repair and upgrade any industrial gearbox

Discriminators

- 100 years of experience supplying defence platforms.
- Proven designs based on longstanding experience in engineering for a wide range of marine defence applications.
- Super quiet, lightweight transmission systems that meet strict acoustic specifications.
- Built for ultimate reliability and optimised maintenance intervals.

Key Customers

- BAE Systems – All Type 26 Global Combat Ships. (including the RAN's Hunter-class Frigates)
- UK MOD
- Wartsila – US Navy oiler project
- KMW/WFEL Power pack assembly and testing for UK Boxer program
- Lockheed Martin – Warrior/Amphill
- GDLS – Scout SV – Power take off

Quality Standards & Accreditations

- All gearboxes are manufactured to the highest standards including Lloyds, ABS, DNV, DEF-STAN and MIL-STD
- ISO 9001:2015
- ISO 14001:2015



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DMTC

Products / Capabilities

- Harnessing expertise in dismounted and mounted (vehicle-borne) capabilities spanning build and sustainment programs
- Fostering enduring collaborative relationships between industry, research organisations, Defence and national security customers.
- Supporting Australian defence industry to meet or exceed global performance & productivity benchmarks.
- Creating stronger and more innovative industrial supply chains in key platform-independent applications such as welding of high-strength steels.
- Ensuring knowledge from Australia's research sector is diffused into the defence industry through industrially-relevant research and development programs.

Discriminators

- Integrated supply chain approach to technology development ensures rapid commercial adoption & utilisation of technology.
- Strategic guidance from Defence validates the relevance and direction of DMTC activities.
- Enhanced outcomes and reduce time to market and costs to Defence through collaborative, co-investment model
- Reach-back capacity to access and direct deep technical expertise in manufacturing and related technology disciplines
- Award-winning and standardised program development and project oversight models, including management of Intellectual Property.

Key Customers

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

Key Partners

- Capability Acquisition and Sustainment Group
- Defence Science & Technology Group
- >20 Research Partners (including 16 Australian Universities, CSIRO & ANSTO)
- >50 Industry Partners (including defence primes and Australian industry supply chain participants)

Quality Standards & Accreditations

- ISO 9001:2015 Quality Management System accreditation
- ISO 44001:2017 Collaborative Business Relationship Management Systems accreditation
- Defence Industry Security Program
- 2013 Safeguarding Australia Eureka Prize
- Early Career Researcher Awards at Land Forces 2014 & 2016
- National Innovation Award at Land Forces 2014 (for body armour development) & 2018 (combat equipment and mobility category)



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Leussink Engineering

Products / Capabilities

- Leussink Engineering is a state of the art engineering facility with an ever-growing range of capabilities. From machining of bespoke components to total manufacturing of turn-key projects, Leussink Engineering has earned a reputation for world-class thinking and delivery.
- Over 30 years of operation – We are a second-generation family-owned business in the Illawarra region providing complete design, fabrication and machining solutions.
- Medium sized business with over 45 employees – Including Management, Sales & Admin, Registered Professional Engineers & Draftsmen, trade qualified Mechanical Fitters, Machinists and Boilermakers. Our team are the backbone of the company, with over 500 years of collective industry experience.

Discriminators

- Cyber Security – We have been assessed as low risk after participating in AusIndustry's Cyber Security Maturity Assessment, which follows the U.S. National Institute of Standards and Technology (NIST) framework, which includes Risk Identification, Threat Detection, Protection, Response and Recovery.
- Award-winning – we were awarded the Komatsu Premier Supplier Award in 2017, acknowledging our unwavering quality of product, turnaround times, performance delivery and value of supply.
- Bespoke solutions – We specialise in short run bespoke engineering solutions for our clients.
- Reverse-engineering expertise – We have the in-house ability to electronically qualify finished machine dimensions and reverse engineer customer supplied items utilising CMM and laser scanning equipment.
- On-site capability – We can design, manufacture and operate custom built on-site machining equipment to suit individual customer requirements and locations.

Key Customers

- Department of Defence (Australia) – Supply of Demmler welding & fixturing systems and laser tracking metrology equipment services.
- New Zealand Defence Force (Army) – Supply of Demmler welding & fixturing systems.
- ANSTO – Precision machining of reactor control rods for the Lucas Heights Reactor.
- Bluescope Steel – Precision machining, fabrication and laser tracking services.
- Joy Global (Komatsu) – Precision machining, fabrication and CMM measuring equipment services.
- Bisalloy Steels – Overhaul and refurbishment of Plate Leveller Cassette.

Key Partners

- Demmeler Corporation (Germany)
- Corts Engineering (Germany)
- Tomelleri Engineering (Italy)
- ALM Positioners (USA)

Quality Standards & Accreditations

- Operating at ISO9001:2008 quality standard.
- Fully compliant to in-house weld procedures AS 1796 Cert 10, AS 2214, AS 1796 Cert 1,1E,2,3,3E,4,5,7,8G,8F,9

Leussink

Think. Solve. Engineer.

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Micromax

Products / Capabilities

- Distributors of ruggedized computers for defence applications
- Distributors of military grade (MilSpec) ruggedized data storage
- Distributors of ruggedized video processing solutions for defence applications
- Ruggedized embedded control systems for autonomous vehicle control (UAV and UGV)
- Robot handling equipment for bomb disposal (ROVs)
- HYDRA system - multi-channel video acquisition and network video server/streamer system
- Submarine communication systems
- DC UPS backup system for wireless in-field communication
- Supply of CPU for military grade routers
- Distributors of medically-approved computing devices
- Intrinsically safe computers

Discriminators

- Exclusive Australian distributor of Foremay military grade products and Onyx medically-approved computing devices
- Leading Australian distributor of ADLINK and Advanced Micro Peripheral products
- Preferred Australasian distributor for Connect Tech
- Systems are capable of withstanding extended extreme temperatures ranging from -55°C to +125°C
- Provision of ongoing and reliable Australian-based support
- Wide international network of specialist COTS defence partners
- Customisation of standard products to meet requirements of defence.
- REAPP device protection solution

Key Customers

- SAAB (custom-designed communications card for Collins-class submarines)
- BAE Systems (developed DC UPS backup for in-field communications system)
- AVI (developed a CPU for military-grade routers)
- Cobham Aviation (developed ruggedized computers for border security applications)

Key Partners

- Foremay (USA)
- ADLINK Technology (Taiwan)
- Advanced Micro Peripherals (UK)
- Connect Tech (Canada)
- Onyx (Taiwan)
- Diamond Systems (USA)
- REAPP Technology (Australia)

Quality Standards & Accreditations

- Quality (ISO9001:2008)
- OHS (4801:2001)
- Environment (4001:2004)
- Micromax has a policy against conflict mineral sourcing and only partners with manufacturers and suppliers who meet our policy.



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ProKote

Products / Capabilities

- Abrasive Blasting using Garnet, Steel Grit, Glass, Walnut & Copper Slag
- High precision abrasive blasting using Bicarb Soda and Dry Ice
- High & Low Pressure Water Blasting
- Wet Abrasive Blasting & Sponge Blasting
- Mechanical and hand preparation expertise
- Automatic Abrasive Blasting and Pre-weld Priming line (3.2 x 0.6 x 13m)
- Application of coating systems from 1-pack enamels to UHB epoxy
- Experienced in intumescent, vinyl esters and poly-urea coatings
- Thermal Metal Spray experience that complies with Military Standards
- Blasting and priming of Armour Plate for International Defence programs

Discriminators

- Experience and capability for both on-site & shop applications
- Auto Blast & Coat line available for contract use as well as in-house items
- Complete Coating Service from pre-weld holding primers to complete complex finished coatings
- Broad range of coating application technologies
- Full skillset of Protective Coatings; blasting, painting, thermal spraying
- Delivery, high quality & cost reduction strategies

Key Customers

- Bluescope Steel (including for AWD Program)
- Bisalloy Steel (including for Australian and international defence programs)
- Coastwide Engineering
- Programmed
- Broadspectrum
- Klondy
- Alfabs
- Touleng

Key Partners

- Illawarra Innovative Industry Network
- Coating Material Suppliers: International Paint, Dulux, Hempel, Wattyl, Jotun
- TAFE NSW

Quality Standards & Accreditations

- Compliance with requirements of Military specifications
- Compliance with International Military standards
- Quality management system in line with AS9000



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Soto Consulting Engineers

Products / Capabilities

- Engineering design consultancy that has serviced heavy industry, manufacturing, renewables and the resources sectors for over 25 years.
- Simulation driven design through the application of advanced analysis and digital engineering methods for producing engineering design solutions associated with machine design and complex structure and vessels.
- Verification and certification of Mechanical, Structural and Pressure Vessel designs to Australian and International Standards.

Discriminators

- Power users and a leader in the application of virtual simulations using CAE/ FEA. Industry trained and practical design engineers.
- Strategically located between major defence hubs of Sydney, Shoalhaven and Canberra.
- Highly trained staff in the emerging Digital Engineering sector and capable of Multiphysics, Multibody dynamics and Digital Twinning.
- Access to world class local subject matter experts in fatigue analysis, composites, system dynamics, mechanical engineering and gear design, electro hydraulic systems, welding, Electrification-Automation and Motor drive controls.
- Internal Project execution systems and processes from small to large and complex jobs.

Key Customers

- We deliver our asset integrity services and high end design engineering capabilities to many of the manufacturing and resource companies in Australia – including: BHP, South32, Bluescope, SIMEC, RTIO, GrainCorp, WaterNSW, Snowy, Downer, Alcoa, Hanson, Holcim.

Key Partners

- Strategic partners: Materials Australia, Enterprise Improvement Solutions, Bridge Projects Solutions, Globetech.
- Suppliers: ANSYS, ALTAIR, AutoDesk & Dassault Systems

Quality Standards & Accreditations

- Internationally recognised Quality Certifications. ISO9001 & 14001 certified by Global-Mark to June 2021.



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Notes



To find out more about Wollongong's unique range of Defence Industry capabilities across air, land, sea and electronic domains,

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