

CAPABILITY STATEMENT

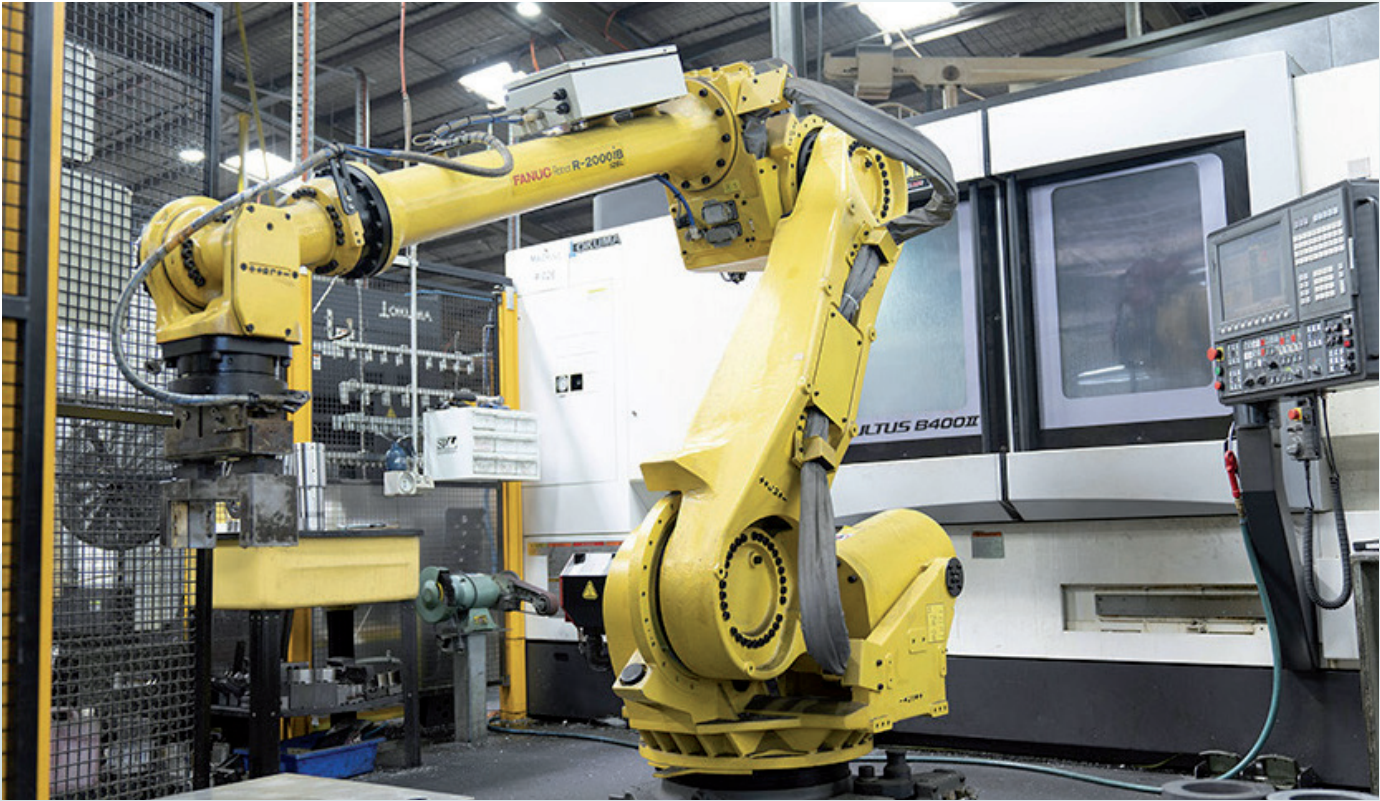
PRECISION MACHINING AND ENGINEERED
METAL FABRICATION FOR AUSTRALIA'S PRIMES
SINCE 1949



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TRUSTED PRECISION MANUFACTURING
PARTNER TO AUSTRALIA'S DEFENCE PRIMES



ALDUS™
ENGINEERING

ALDUS Engineering is an Australian-owned precision manufacturing enterprise supplying high accuracy CNC machined components, mechanical assemblies, and integrated production support across land, maritime, and aerospace domains.

Operating from purpose built facilities in Melbourne, we combine multi-axis machining, robotic automation, and disciplined quality systems to support defence, aerospace, medical, and other mission critical industries.

ALDUS provides a reliable, production ready Australian source that can absorb work packages, de risk schedules, and support long term sustainment obligations.

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 HILTON
MANUFACTURING

Hilton Manufacturing has been delivering precision-engineered metal products since 1976. Founded by Margo and Tom Hartley and now part of the ALDUS Group, Hilton combines a proud Australian manufacturing heritage with the strength of a diversified industrial organisation.

Operating from advanced facilities in Melbourne and Brisbane and employing more than 250 people, Hilton serves the transport, rail, defence, infrastructure, commercial and industrial sectors.

The company is a leading manufacturer of fuel tank systems, truck aftermarket accessories and complex engineered products, supported by advanced CNC laser cutting, robotic welding, forming, machining, fabrication and assembly capabilities.

Through its APAS accredited painting, Special Projects, and Contract Manufacturing divisions, Hilton provides end-to-end design, engineering, prototyping and scalable production solutions.

 EVOK3D
3D PRINTING SOLUTIONS

EVOK3D is an Australian-owned advanced manufacturing company specialising in industrial additive manufacturing.

Established in 2013 and operating across Australia and New Zealand, EVOK3D is HP's tier one partner for Multi Jet Fusion production systems, supplying and supporting the industrial 3D printing infrastructure used by manufacturers, defence and aerospace suppliers, healthcare providers and research institutions.

EVOK3D supplies, commissions and supports industrial production systems, materials and software. As a manufacturer, it operates its own production capability across two complementary

technologies, Multi Jet Fusion for production polymer parts and high-temperature filament for high-performance materials such as PEEK, PEI (ULTEM) and PAEK, producing components to customer specification without tooling and scaling systems and materials to program requirements.

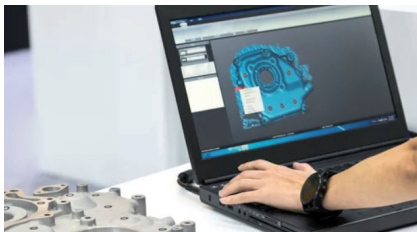
As an engineering partner, EVOK3D takes a component from design and material selection through process qualification to a production-ready, repeatable part.

CORE CAPABILITIES FOR DEFENCE PROGRAMS



ADVANCED CNC MACHINING

- 3, 4 and 5-axis milling for complex geometry and lightweight structures.
- CNC turning and mill turn for shaft, housing, and interface components.
- Large format capability for sizable brackets, housings, and structural elements.



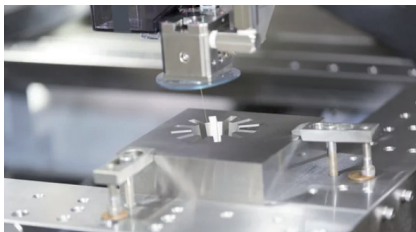
ENGINEERING & INDUSTRIALISATION SERVICES

- Design for manufacture advice to reduce risk and cost prior to release of final drawings.
- Prototyping and iterative refinement during development phases.
- CAM programming and process optimisation to enable stable, repeatable production.



ASSEMBLY AND INTEGRATION

- Mechanical subassemblies, including precision fits and multi component interfaces.
- Welding/fabrication and finishing coordination via qualified partners.
- Prototype to production transition, supporting engineering trials through to rate production.



MATERIALS EXPERIENCE

- Aluminium and stainless steels.
- High strength steels and nickel alloys.
- Titanium and engineered polymers, including PEEK.
- Industrial 3D printing polymers across 25+ qualified materials.



ENGINEERED METAL FABRICATION

- 10 hydraulic and mechanical presses from 5 to 400 tonne, with beds up to 2000x1500mm and coil feeding to 500mm wide.
- APAS approved powder coating line with five-stage phosphate preparation and powder recovery.
- Laser cutting, turret punching, press-brake bending, CNC tube bending, and metal polishing.



ADDITIVE MANUFACTURING

- Multi-technology AM platform (MJF, SLS, FDM, DLP) delivering high-strength, production-grade polymer components.
- Tool-free, agile production with DFAM expertise enabling rapid iteration, optimisation, and part consolidation.

DEFENCE CAPABILITY MATRIX

DOMAIN	CAPABILITY FOCUS	TYPICAL COMPONENTS OUTPUTS	READINESS AND ASSURANCE	SCALABILITY
Land <i>(Protected Mobility & Land Systems)</i>	3/4/5-axis CNC machining; mill turn; welding and assembly; FAIR and traceability.	Brackets, housings, valve bodies, mounts, drivetrain and suspension hardware, weapon system interfaces (build to print).	ISO 9001 QMS; full material and batch traceability; CMM inspection; NDA compliant processes.	Automated cells; rapid changeover; surge capacity via additional shifts.
Maritime <i>(Surface & Sustainment)</i>	Corrosion resistant materials; tight tolerance assemblies; finishing and coatings coordination.	Pump/valve components, structural fittings, sensor mounts, enclosure machining, sustainment spares.	Process controls for marine environments; quality documentation; configuration control.	Scalable work cells; supplier network for coatings and treatments.
Aerospace <i>(Structures & Mission Systems)</i>	5 axis complex geometry; lightweight alloys; FAIs; tight GD&T control.	Aerospace brackets, actuator components, avionics trays, precision housings.	FAIR, CMM, documented special processes coordination; engineering collaboration (DfM).	Prototype to production transition; lights out manufacturing for repeatable parts.
Joint / Enablers <i>(Test, Ground Support, Specialist Systems)</i>	Build to print subassemblies; integration and test; consumables sourcing via approved partners.	Jigs/fixtures, test rig components, specialist enclosures, precision shafts/ bushes.	Controlled documentation; serialisation/QR codes; inspection packs.	Flexible lot sizes; local partner ecosystem for rapid turnaround.
Uncrewed Systems & Emerging Platforms	Multi-technology industrial additive manufacturing (MJF, SLS, FDM, DLP); DfAM; digital inventory; no-tooling production; rapid design iteration; 3D scanning and reverse engineering.	Structural airframe components, housings, ducting, mounting structures, payload enclosures, custom jigs and fixtures for UAS assembly and integration; precision prototyping for engineering validation.	ISO 9001 QMS; material batch traceability; process-controlled quality; repeatable production from digital files; 25+ qualified materials.	Linear scaling via additional print systems; dual-use commercial/defence production; digital inventory enables on-demand surge production without tooling lead time.

EXPERIENCE WORKING TO TIGHT TOLERANCES, DEMANDING ENVIRONMENTS, AND DEFENCE GRADE DOCUMENTATION

MANUFACTURING INFRASTRUCTURE

- Nine 3 and 4-axis machining centres, four 5-axis CNC machines and two large-scale 4-axis machines.
- 52 total CNC machines across two sites in Victoria..
- Five CMMs and two automated robotic arms enabling zero-downtime production.
- Three CO2 laser cutters processing up to 25mm mild steel, 20mm stainless steel and 12mm aluminium.
- Seven CNC turret punches with 25 tonne capacity on sheet sizes up to 3000 × 1500mm.
- Six CNC press brakes with laser adaptive measuring for accurate, repeatable bends up to 4000mm.
- Ten hydraulic and mechanical presses from 5 to 400 tonne, with coil feeding up to 500mm wide.
- Three CNC tube benders (12.7mm to 152mm diameter) and two CNC routers for sheets up to 6000 × 1800mm.
- Ten robotic welders complemented by 25 skilled welders across MIG and TIG processes.
- Complete powder coating line with five-stage phosphate preparation, plus in-house metal polishing and assembly.



WHY DEFENCE PRIMES CHOOSE ALDUS DEFENCE INDUSTRY

- Demonstrated performance within defence supply chains under NDA.
- Reduced manufacturing risk and improved delivery certainty through robust processes and automation.
- Strong sovereign capability contribution, supporting Australian Industry Capability and resilience objectives.
- Collaborative engineering approach and end to end execution, from prototype to production and sustainment.
- Hybrid subtractive and additive manufacturing under one Australian supply chain partner, with established ISO 9001-certified additive manufacturing operations already delivering to defence and aerospace clients.



DEFENCE INDUSTRY ROLE



ALDUS Defence Industry operates as an integrated supply-chain partner to defence primes and sub primes under NDA governed programs.

Our work supports:

- Protected mobility and land systems.
- Maritime platforms and sustainment.
- Aerospace structures, mission systems, and support equipment.

We typically operate on a build to print basis, with proactive design for manufacture (DfM) input to reduce technical risk, compress time to production, and improve through life cost for our customers.

CERTIFICATIONS & CREDENTIALS

- ISO 9001
- ISO 14001
- ISO 3834
- ISO 9606
- DIN 2303
- EN 15085
- APAS accredited
- DISP membership
- JOSCAR-AU registered
- Essential 8 and CMMC ML-2 in progress



AFFILIATIONS & MEMBERSHIPS

- Defence Industry Development Grants Program recipient
- Member - Victorian Defence & Space Network (VDSN)
- Member – Australian Industry & Defence Network (AIDN)
- Member – Industry Capability Network (ICN)
- Member – South East Melbourne Manufacturers Alliance (SEMMMA)
- Member - Australian Manufacturing Technology Institute Limited (AMTIL)

KEY CUSTOMERS & PARTNERS

- Rheinmetall
- Thales
- BAE
- ASDAM Group (Marand/Rosebank)
- Able Industries Engineering
- Value Heat Treatment
- ISCAR Tooling

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