

# DEFENCE SUPPLIERS

## News

Keeping you up to date with the latest news, moves and developments among Australia's defence suppliers

This newsletter supports ADM's Directory of Defence Suppliers which is published in hard copy twice a year in June and November



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The first MH-60R flight simulator built by CAE at HMAS Albatross.

IMAGE COURTESY OF AUSTRALIAN BROADCASTING CORPORATION.

## CAE: Simulation solutions across all domains

*Philip Smart | Adelaide*

There's an old African proverb about a group of pygmies climbing all over an elephant and trying to guess what it is. Their answers vary wildly, because each can only see part of the animal.

Peter Redman, Asia Pacific Vice President and General Manager for renowned training and simulation company CAE, understands the problem; his company could be the elephant.

CAE has long been seen as the gold standard for the multi-million dollar simulator systems used to train airline and military pilots the world over. The company's full-motion simulators are exact copies of specific aircraft such as Airbus tankers and Lockheed Martin transports, even being programmed with manufacturer-supplied data from that exact aircraft's original flight test program to ensure the simulator "flies" just like the real thing. Pilots learn to fly the aircraft efficiently, but can also explore extreme situations and



emergencies in total safety, a freedom that has saved countless lives in real aircraft emergencies.

But some would be surprised to discover that CAE also applies its simulation technology and expertise to markets as diverse as health care, public safety and the naval domain. And importantly, it also boasts a wealth of experience and capability delivering simulation-based solutions for more than half a dozen military ground forces.

Peter Redman believes the combination of CAE's extensive experience in simulation, coupled with the legacy of its experience and recent acquisitions, places the company in a strong position to be able to move further into land domain training solutions.

"We have the capability to bring multiple skill sets and technical solutions to bear on land and joint training – whether it is in replicating the 'fog and friction' of ground combat, simulating the situational awareness challenges faced by vehicle crews or improving the cognitive capacity of commanders and staffs to operate on the contemporary battlefield," said Redman. "We can do this in highly realistic dynamic synthetic environments that are safe, environmentally friendly, and cost-effective, all of which are becoming increasingly important to armies around the world, including those in the Asia/Pacific region."

CAE already has a proven track record in simulation systems for land forces. Its INFRONT 3D system has been used to train British Army forward artillery observers and forward air controllers and supplied to the armies of Great Britain, Turkey, the Netherlands, Thailand, Kenya, New Zealand, Belgium and Oman as both a deployable, mobile training system as well as a classroom-based solution. In addition, seven countries in Europe, most notably Germany, use CAE's GESI constructive simulation system for command and staff training.

The company has been actively involved with the British Army as the principal contractor for Warrior IFV Gunnery Turret Trainers over the past several years. CAE has also delivered networked Warrior Observation Post Vehicle (OPV) trainers to the Royal School of Artillery that now extend training from individual crew members to collective battlegroup level fire support training.

More recently, CAE has provided the Indian Army with a training solution for its indigenously-developed Arjun main battle tank, including six-degree motion-based driver trainers, desktop trainers and turret simulators for gunnery training, and the ability to network the full suite of simulators for individual, crew and troop level training.

The state of the art is progressed through in-house research (around 10 percent of annual revenue goes back in to research and development) and judicious acquisition of specialist companies, which in one case brought with it a 20-year track record in design and development of high fidelity maintenance trainers for armoured vehicles such as the M1 Abrams tank and the M2/M3 Bradley infantry fighting vehicles (IFV) for the US Army.

**► LINK HERE FOR COMPANY DETAILS**



**As a leading manufacturer, BOC stresses the importance of maintaining a safe working environment for employees and customers alike.**

## BOC: Taking workplace safety seriously

*Philip Smart | Adelaide*

Any Australian who has ever worked on building or construction sites, or in manufacturing will be familiar with BOC.

The company is probably best known as a supplier of industrial gases, such as oxy-acetylene, argon and carbon dioxide for welding, liquefied petroleum gas to power forklifts, pest-destroying fumigants and even gases for laser and medical equipment. Its products have powered major infrastructure and defence projects around Australia.

What may surprise some is that BOC gas delivered to a building site may find itself surrounded with power tools, welders, abrasives, or even medical equipment either BOC branded or quality brands sold by BOC.

Across more than a century of industrial gas supply, visits to manufacturing and industrial sites large and small have been part and parcel of the everyday life of BOC's founders, executives and personnel. By becoming part of so many projects, they have gained an intimate knowledge of various approaches and levels of safety management.

This is why BOC is one of the nation's largest providers of industrial Personal Protection Equipment (PPE) and safety wear. BOC provides equipment and clothing that helps protect against the vagaries of heat and flying particulates, chemicals, machinery and even just sunlight.

Your safety issue could simply be the weather, which is where BOC's special cooling beanies, hat liners and sunshades will give some relief. But it could be flying sparks, chemicals or even noise – many people are unaware that processes such as arc-air gouging, plasma cutting and metal filing with an angle grinder can often generate sound levels well in excess of 100 decibels, damaging human hearing either immediately or over the long term.

Respiratory protection too is a field that is becoming better understood and increasingly more regulated. BOC provides protective equipment for everyday applications such as drilling and grinding, sanding and sawing, right through to specialist filtered systems to guard against inhaling welding fumes and ozone, solvents, paint mists and herbicides.

The company even provides equipment for working at height, such as harnesses and webbing, fall arrestors and karabiners.

The world of safety equipment has changed with improvements in technology, and personnel no longer need to use headwear that looks like the astronaut's space suit from an early science fiction film to be safe.

**BOC is one of the nation's largest providers of industrial Personal Protection Equipment (PPE) and safety wear.**





Even fashion accessory manufacturers such as sunglasses maker Bolle are in the market, providing equipment that protects the wearer, but still enables them to get on with the job.

As a BOC spokesman told ADM, providing safety and personal protective equipment isn't an excuse for lax safety standards, but should be seen as another vital layer of protection.

"Potential hazards need to be identified, measured where appropriate, and assessed, and remedial measures put in place wherever necessary," said Kylie Mackenzie, General Manager Industrial and Safety Products, BOC Limited.

"As a leading manufacturer, we understand the importance of maintaining a safe working environment for our employees and customers alike."

For more information on BOC visit [www.boc.com.au](http://www.boc.com.au) (Aust) or [www.boc.co.nz](http://www.boc.co.nz) (NZ)

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**Calm Aluminium recently provided two sets of special forged stainless steel tubes for replacement attack periscopes on the Collins class submarine.**

## Calm Aluminium: a specialist supplier for highly-specialised needs

*Philip Smart | Adelaide*

With today's emphasis on electronics and data, it's easy to forget that all that smart equipment has to be mounted in a weapon or delivery vehicle that will survive the vagaries of temperature, speed, moisture and even radiation, to get the payload where it needs to go. And that vehicle is usually made of metal.

The SR-71 Blackbird spy aircraft, capable of flying at three times the speed of sound, was renowned for leaking fuel when parked, because designers had to allow for expansion through heat generated by air friction at high speed. Submarines use high grade steel to counter crushing pressures at depth and tolerances in precision engineering can come down to half the width of a human hair.

To achieve their goals, major manufacturers must understand the properties of the metals they use, and only want to source them from companies that have the same understanding. In Australia, they go to Calm Aluminium.

The Sydney based specialist is a supplier to major prime contractors such as BAE Systems Australia, and prominent specialist companies such as Marand Precision Engineering, Ferra Engineering, Naeco, Hofmann Engineering and Broens.

Calm Aluminium was established in 2002 to market products and services to the Aerospace, Defence and Toolmaking industries in Australia and New Zealand and also to act as a technical adviser of correct materials and alloys for the related markets.

The company has rapidly created a reputation for quality in the aerospace and marine markets, providing metals for signature programs such as the Evolved Sea Sparrow Missile, NULKA active missile decoy, the Eurofighter



Typhoon fighter aircraft, F-35 Joint Strike Fighter and even the Supacat high-mobility vehicle used by Australia's special forces. The company recently provided two sets of special forged stainless steel tubes for replacement attack periscopes on the Collins class submarine, and may soon provide another five.

Calm Aluminium offers aluminium, stainless steel, special steels, titanium, copper, brass and engineering and medical grade plastics, with the ability to cut and shape as needed. It can supply everything from plate as thin as 0.41mm to cast aluminium plate almost a metre thick, used for large die moulds and other tooling applications.

Calm Aluminium can supply locally produced extrusions from the leading extrusion mills in Australia and New Zealand, as well as aerospace and military certified metal from suppliers in USA and Europe. All metal is supplied with full mill certification as standard with all shipments from overseas.

Precision cast tooling plate can be supplied by Calm Aluminium in exact quantities and size, reducing weight and machining times as opposed to the high weight ratio and machine times of tool steel.

"Through a network of highly qualified subcontractors we also offer fabrication services, such as cutting, folding, water or router cutting, welding and machining," said Calm Aluminium Managing Director Laurie Sutton. "Of course our contractors have aerospace and defence quality standards in place, and we only stock metal from approved Aerospace mills that are US Defense Federal Acquisition Regulation Supplement (DFARS) approved countries."

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Enware's Fast-Act is a formula of anti-chemical agents that can be delivered from pressurised cylinders, but also via a wearable decontamination mitt.

## Enware: Fast and effective decontamination

*Philip Smart | Adelaide*

Defence forces have long been seen as a cauldron of development for damage control. Continued effectiveness as a fighting force depends on the ability to recover quickly from damage inflicted by an enemy, or even by accident. And increasingly today, the shortlist of possible dangers includes toxic chemicals and chemical warfare agents.

In the past decontaminating personnel and equipment exposed by accident or combat has been a time consuming and complicated process. But Sydney based Enware has taken a lateral approach that has seen the company's decontamination products ordered by US, Indian and Singaporean forces, and recently confirmed as a product that will be acquired under the Australian Defence Force's JP2110, a high-priority project intended to protect Australian forces from exposure to chemical, biological, radiological, nuclear (CBRN) weapons and toxic industrial hazards (TIH).



Enware's Fast-Act is a formula of anti-chemical agents that can be delivered from pressurised cylinders, but also via a wearable decontamination mitt. It's powerful stuff; the non-toxic formulation of neutralising chemical agents has been shown to neutralise the top 27 known toxic industrial chemicals, plus chemical warfare agents. And it will do it in two minutes, compared with the two hours previously offered by older technology. Three decon mitts can remove and neutralise 99 percent of chemical warfare agents from soldiers' uniforms, equipment and skin in less than two minutes.

Fast-Act offers 100 percent neutralisation of toxic chemical vapour on contact, from a product that is stable, non-toxic and will stay active for 10 years if kept in a sealed environment. And importantly for military use, the broad range of chemicals neutralised means users need only one product to combat any toxic vapour situation they encounter. That means less initial outlay, less storage, less training and importantly, less chance of operator delay or error in an emergency.

Overseas forces have seen the value. The United States military has previously purchased Fast-Act decontamination mitts to become part of their N295 personal decontamination kit. The Indian military delivers Fast-Act from pressurised cylinders as part of the procedure in its new decontamination shelters deployed on border patrols. And the Australian Navy Platform Systems office has requested Fast-Act be commissioned on-board for H2S and HF vapours. The Singapore Civil Defence department is also in the final stages of the process to include Fast-Act on its specialised vehicles.

"Fast-Act helps response teams act immediately and can potentially save lives exposed to deadly toxins," said Enware's Scott Whittaker. "It has a wide range of applications in the hazardous materials, maritime and petrochemical industries, for first responders, tank cleaning, de-gassing and filtration."

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## JEDS commissions new anechoic chamber for antenna testing

*Philip Smart | Adelaide*

Australian electronic warfare system support company Jenkins Engineering Defence Systems (JEDS), has installed a Near Field Scanner (NFS) anechoic test chamber that can test all but the largest antennas in service with the Australian Defence Force, including many that could previously only be tested overseas.

Sited at the company's Matraville facility in Sydney's east, the chamber is more than seven metres long, 4.8 metres wide and 4.8 metres high, with a seven-axis, nine-measurement mode for testing of antennas up to three metres by three metres in size.

The NFS introduces to Australia leading-edge antenna characterisation capabilities and complements JEDS' existing 10-metre by five-metre



by five-metre fully-automated Far Field Anechoic Test Chamber (0.5-40 GHz). In doing so it provides a significant increase in accuracy and characterisation capabilities.

JEDS is a wholly-owned Australian company that specialises in the service and support of Electronic Warfare (EW), radar and radio communications systems. The Company has specific expertise in equipment repair and overhaul, test, calibration and software support for a range of Defence, Government and commercial customers and also offers a wider project management, systems engineering, training and configuration management capability. JEDS also designs and manufactures a small number of bespoke EW and related products including the Low Band Direction Finding (DF) System currently being fitted to the Hobart class DDGs and ANZAC class FFH vessels; Spinning DF electronic intelligence antenna systems, Multi-Function Surveillance Antennas, High Band Warning Systems and ELINT/ESM Analysis Software.

JEDS has repaired a wide range of radar and radio systems for the Australian Defence Force, designed, fabricated and installed antennas, masthead equipment and electronic systems and manufactured and assembled equipment under contract to larger defence and communications manufacturers.

In addition to its pursuing its own products, JEDS represents and supports a number of overseas Original Equipment Suppliers that offer world-leading technologies to the Australian Defence Forces, including in-service support for the Collins Submarine's Exelis Electronic Support Measure (ESM) systems, the DRS Technologies Multi-Spectral Surveillance Suite (MSSS) fitted to the surveillance variant of the Australian Army's light armoured vehicles, and Terma's C-Guard "soft kill" decoy system fitted to Royal Australian Navy surface combatants.

The company is renowned for its expertise in services such as defect investigation, wharfside maintenance, supply chain management and depot level repair.

JEDS has supported the Australian Defence Force since the company was founded in 1989. The company now has around 30 employees, split between its facilities in Sydney and Rockingham, near Perth, with staff also located in Canberra, Nowra and Adelaide.

The majority of JEDS employees maintain high level (Secret and Top Secret) national security clearances, have ADF, Department of Defence or dockyard experience, hold relevant Degree or Diploma level qualifications and maintain continuous training and improvement programs both locally and overseas.

**"JEDS is a wholly-owned Australian company that specialises in the service and support of Electronic Warfare (EW), radar and radio communications systems."**

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**ODU connectors provide reliable transmission of power, signals, data and media in many demanding applications.**

## ODU focuses on improving connection technology

*Philip Smart | Adelaide*

In a world where everything and everyone is now “connected”, it’s easy to focus on the electronics and forget the all-important role of the connections themselves.

A system is only a system if the constituent parts can “talk” to each other, and that means producing cable, data and power connections that are just as reliable, rugged and advanced as the equipment they unite.

The ODU group, one of the leading international suppliers of connector systems, is making sure that connection technology keeps pace with an increasingly wired (or wireless) world.

ODU connectors provide reliable transmission of power, signals, data and media in many demanding applications such as medical, energy, military and security technology as well as in established industries such as industrial electronics, test and measurement technology and automotive technology.

Its new AMC high-density complete high speed connector is a good example of the new breed. The AMC is an advanced miniature USB 3.0 high-speed connector solution designed for harsh environment applications. It is used extensively in soldier communications and Future Soldier Systems where minimising weight and space are critical, such as field radios, portable computers, night-vision systems and digital scopes.

Its outer housing, or shell, can be as small as 10mm in diameter, up to 18.5, and can house as many as 40 contacts. And it will protect those contacts from salt spray, water, and temperatures of anywhere from -51° C to +125° C. The system has been built to be both rugged and safe, incorporating both high durability over multiple mating cycles and a break-away quick disconnection function for emergencies.

The connector can be tailored to numerous high density signal configurations and power requirements (up to 15 Amps) and data transfer (USB 3.0 with 5-Amp power) in a very compact package.

The shells are keyed and color-coded to ensure reliable and simple handling.

The ODU AMC High-Density product portfolio includes also a USB 2.0 connector solution and an HDMI option.

ODU is involved in many Soldier Modernization Programs worldwide. In these specific fields, the connector must fulfill a number of rigorous criteria under the most extreme conditions. ODU connector solutions meet and often exceed these requirements by providing reliable connections even in the toughest environments.

With manufacturing sites in Germany, Romania, the United States and China, ODU maximises quality control by keeping as much work in-house







**With Defence spending continuing to fall under mass scrutiny, never has there been a bigger call for cost savings relating to our fleets maintenance.**

as possible, including the relevant skills and key technologies for design and development, tooling and special engineering, injection molding, stamping, turning, surface engineering, installation and cable assembly.

For further details contact Clarke & Severn Electronics on 02-94821944 or email [sales@clarke.com.au](mailto:sales@clarke.com.au) or visit [www.clarke.com.au/odu.html](http://www.clarke.com.au/odu.html).

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## Phoenix: Savings in fleets maintenance a growing priority

*Philip Smart | Adelaide*

There's a rule of thumb that says the initial purchase cost of a high-value, long-life defence asset such as a ship will end up being only around a third of the overall cost of ownership over its lifetime.

For Wollongong-based ship and industrial services company Phoenix Australasia, that rule focuses the mind on where the group can be of most help – maximising the efficiency of the asset while minimising the cost of sustainment that makes up two thirds of the overall through-life investment.

With Defence spending continuing to fall under mass scrutiny, never has there been a bigger call for cost savings relating to our fleets maintenance. Phoenix continues to lead the way bringing innovation to the forefront, inherently searching for potential process improvements and global supply chain partners that culminate in minimised costs with shortened durations for the end client.

Phoenix has carved itself a reputation for delivering streamlined turnkey project outcomes utilising their bundled services matrix including but not limited to welding, fabrication, non-destructive testing, abrasive blasting, painting and ship repair services in line with high quality standards and at highly competitive prices. Its involvement with the Royal Australian Navy touches most of the force's larger vessels, from the Anzac Class Frigates to the Adelaide Class FFGs as well as replenishment and support vessels such as *HMAS Success* and *HMAS Tobruk* through to submarines including *HMAS Farncomb* and even as far as the newly commissioned *HMAS Canberra* Landing Helicopter Destroyer.

Customer testimonials, not easily gained for defence work, tell of Phoenix breaking records for the amount of work and remediation completed during major docking periods, for implementation of training programs across its employee base scaling them to high standards to ensure efficient completion of work packages when time is of the essence, and of commitment to maintaining Military and International Standards with an array of third party certifications.

Phoenix has been known to complete small tasks such as minor structural repairs right through to large scale works including the Fire Detection



System Configuration Change Task onboard *HMAS Success* and critical path projects like the Boat Davit Redundancy Package on *HMAS Tobruk*.

Phoenix has also continued to diversify with numerous industrial works outside Defence; whether the task is protective hand rails at Sydney Steel Mill, blasting and painting work on Port Kembla's GrainCorp storage tanks or upgrading Jemena gas pipelines at Nowra and Canberra, Phoenix personnel have gained a reputation for delivering on time and on budget, at high quality.

"We maintain high level safety standards and procedures, as well as the qualifications, accreditations and tickets required to work in a variety of unique situations," Adam Castro, Phoenix CEO told ADM. "Our emphasis on value adding to the client at no additional cost has seen client satisfaction hit an all-time high with an increase in quality and productivity resulting in closer strategic partnerships with our clients nationwide."

**"We maintain high level safety standards and procedures, as well as the qualifications, accreditations and tickets required to work in a variety of unique situations,"**

Any major work on a steel vessel or industrial asset is going to require welding, NDT, blasting and painting. Phoenix provides coded welding and fabrication utilising all ferrous and non-ferrous metals, including stainless steel, carbon steel and alloys such as chromoly, duplex steels, copper-nickel and aluminium.

In addition, the company has expertise and capability in many of the systems and vital organs every ship or industrial site needs to maintain, including high and low-pressure pipes and steam boilers, oxygen and gas lines and hydraulics. The company even offers a confined space entry service, including provision of standby rescue services and breathing apparatus ensuring the safety of personnel during refit and repair works.

Phoenix's unrelenting focus on quality has seen them attain the highest order of accreditations including their own NATA test house, classification as a PCCP certified painting contractor by the CSIRO and as far as certifying their own training facility that trains abrasive blasters and coating applicators in a course approved by the Society for Protective Coatings (SSPC) and Lloyds Register resulting in personnel with internationally recognised certifications. "What we need is more certified blasters and applicators, not more inspectors," Adam says. "You certainly don't want to have fifty inspectors painting your ship with no formal practical training, nor do you want to have to pay for additional supervision to ensure processes as simple as mixing paint are completed correctly or even worse, have your project schedule fall behind because of a mishap with such a process."

Gaining and maintaining a reputation takes time and commitment, but as explained by Phoenix, it's not rocket science.

"This is achieved by fully understanding the client's performance expectations and by ensuring that our service delivery meets or surpasses them,"



said Mr. Castro. “Our quality systems provide assurance that our technical expertise and capability is regularly updated; our people maintaining high skill levels, our equipment being efficient and effective and our training needs being regularly reviewed.”

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## Welcome to New Companies

*Philip Smart | Adelaide*

We would like to welcome the new companies who have listed with Defence Suppliers since our last newsletter.

**Bauer Engineering Pty Ltd . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**BOC Limited . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Concept Engineering (Aust) Pty Ltd** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**CR Kennedy & Co . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Customs Agency Services (CAS) .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Diehl Defence Holding GmbH ..** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Fordham Engineering . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**FWD Motors Pty Ltd . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Harting Pty Ltd . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Lend Lease . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)

**Logistic Solutions Australasia Pty Ltd** [▶ LINK TO SUPPLIER DETAILS HERE](#)

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**Stormor Shelving Australia . . . . .** [▶ LINK TO SUPPLIER DETAILS HERE](#)



Tranzwash International Pty Ltd

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Warsash Scientific Pty Ltd . . . . .

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## A new face in the ADM Team



With this issue we welcome the new **ADM Online Editor Patrick Durrant**. Patrick's role is to deal with the online aspects of both *ADM* (the monthly magazine), *ADM's* Premium and free newsletters and Defence Suppliers online and newsletters. Defence suppliers can send news items for the website and newsletters direct to Patrick at [news@defencesuppliers.com.au](mailto:news@defencesuppliers.com.au) – he can also be contacted in our Sydney office on (02) 9213 8249 if you want to discuss a story idea for our news services, including the next edition of our Defence Suppliers Premium newsletter.

## Check out

[www.defencesuppliers.com.au](http://www.defencesuppliers.com.au)

for the latest news items on Defence Suppliers

Make sure you sign up for the regular free newsletter on the website.

You can also search the directory on the website for supplier details. It is updated regularly.

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