

**t**his book is dedicated to  
the unknown victims of  
Hiroshima and Nagasaki,  
the people of Korea,  
40 000 of whom were murdered  
by the United States  
bomb tests and the  
66 560 000 others  
who are today facing the  
re-escalation of a  
war which has already claimed  
the lives of 3 000 000

and to all people  
murdered, maimed,  
starved, used,  
robbed and  
kept in poverty  
by  
the masters of war

Renegade Activists believe that it is not enough to call for the cancellation of one particular weapons show. The connections must be made between all the diverse faces which are donned from moment to moment by the powers which feed off injustice, oppression and greed.

Whilst ever we allow corporations and governments to amass power and wealth at the expense of the planet and the vast majority of its people who live in misery and fear, then we must all accept responsibility.

Whilst ever we accept the lie that it is necessary to fortify 'our' possessions, 'our' land with terrorism, suppression and murder, then we must accept the arms trade

Whilst ever those of us who live in a country where some of this wealth and power has accumulated, allow our silence, our peace, our existence to be bought with the crumbs that fall our way, we must accept every injustice, every humiliation, every reality of the choices we have made.

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printed on  
recycled paper

## MILITARY AUSTRALIA

A little over two hundred years ago, after many failed attempts, the land now known as Australia was successfully invaded by Europeans. This was accomplished by the use of Western weapons technology, Western hypocrisy and slave labour. One of the first tasks undertaken by the Europeans was the establishment of a military industry. This military industry was not set up with the purpose of defence but rather with the twin purposes of committing genocide on the indigenous populations and the maintenance of a penal colony, Australia's first foreign military base.

The establishment of governments, Federation, the various changes of government have not changed Australia's position. Australia still has a thriving military industry based not on defence but rather on the subjugation of indigenous peoples and the maintenance of a foreign military presence.

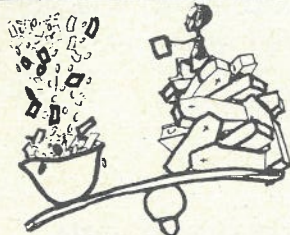
Arms companies operating in Australia are usually subsidiaries or representatives of large foreign corporations, reflecting the role of the Australian Government in its subservience to foreign powers and this has helped foster an industry of supplying components such as software and body panels to the manufacturers of the latest killing machines in the United States and elsewhere. This makes it impossible to determine exactly where and how Australian components are used (much like Australian uranium) and makes the Australian export 'controls' at best laughable.

Australia's other major market is the supply of primarily anti-insurgency equipment to repressive governments of the Asia Pacific region. Sales of ammunition to Indonesia and helicopters to Papua New Guinea counteract all the bleeding heart assurances of the Australian Government that arms will not be exported to countries that 'have gross human rights abuses'.

The planned private enterprise testing range at Woomera, space base on Cape York and the alienation of land for foreign military bases and war games has continued Australia's two hundred year tradition of repression of Aboriginal people by the military.

## THE ARMS TRADE AN OVERVIEW

### ARMING POVERTY



**"Every gun that is made, every warship launched, every rocket fired represents, in the final analysis, a theft from those who hunger and are not fed and from those who are cold and are not clothed"**

Former U.S. President Eisenhower summed up one of the effects of the arms trade quite succinctly after he was no longer in a position to do anything about it. In 1989 the President of the World Bank, Barber Conamble estimated that a full one third of some Third World countries foreign debt can be attributed to arms purchases. This debt is compounded by interest and relief loans. The usual methods of raising revenue to repay these loans is to cutback on social services such as health and housing and by fiercely competing for exports, sending prices (and wages) down. Either way its the poor that pay.

Sending desalination units to the Persian Gulf to support the war effort was easy, sending desalination units to the Australian desert where people are suffering with Trachoma because they can't get clean water appears to be a lot more difficult.

### ARMING REPRESSION

Australia has in the last financial year supplied military equipment to such luminaries of human rights as France, Malaysia, Indonesia, Myanmar, the United States, South Korea and the Philippines. Australia made sales of ammunition in the last financial year to New Caledonia, the Australian Government's claim that this was merely 'sporting' ammunition is as plausible as last year's claim that the PT6 engines repaired for the Burma



Air Force were for trainer aircraft (these engines are used to power the BAF's counterinsurgency wing which this year undertook the most intensive air bombardment ever of the indigenous populations and students on the Thai border). The sale of sporting ammunition to New Caledonia poses the question "What does the Australian Government condone as sport?"

The Australian Government must be aware of how Australian weapons are being used, yet rather than restricting their sale, they are actively pushing for an increase in the sale of such equipment. The Australian Government must also be aware that maintaining repressive governments in some countries can only work for the good of many of its 'mates', the international big business community, by ensuring low commodity prices, a burgeoning arms market, cheap labour and tax havens.

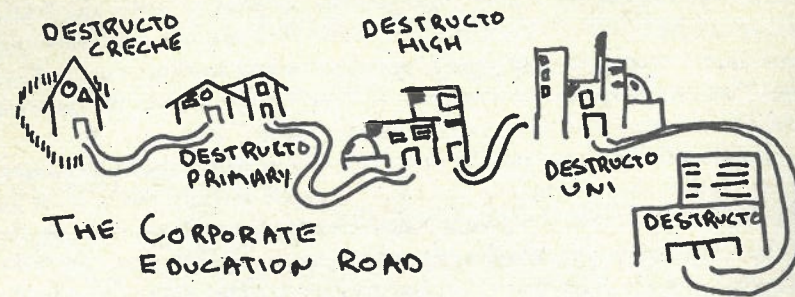
Could it be that the Australian Government is acting in collusion with these companies to create an international economic atmosphere where business will profit and governments which are friendly to this ideal will be maintained?

### ARMING EDUCATION

One of the more insidious facets of the current NSW Government push for schools to seek corporate sponsorship is not the idea of advertising on school uniforms but rather the lack of advertising of who is paying for our children's education.

It has been the situation in Australian universities for some time that corporations fund scholarships and research grants. Arms manufacturers have not been slow in exploiting this commercialisation of education, many of whom have undertaken to follow this path of research. Tax write-offs and the kudos of 'doing something for the community' combined with the ability to direct the future of education is an opportunity too good to be passed up.

The research capabilities of Australian universities are pushed as a major attraction in Federal and State Governments' advertising for arms dealers to set up shop in Australia and this has already resulted in the formation of 'technoparks' either on or adjacent to the grounds of most major universities. The Australian Government has recently announced the formation of 15 'co-operative research centres' to facilitate the integration of the academic and corporate sectors. The Victorian Government supported Swineburne Institute's stand at PRIDE90 (the Pacific Regional International Defence Exposition) held in Manila last November.



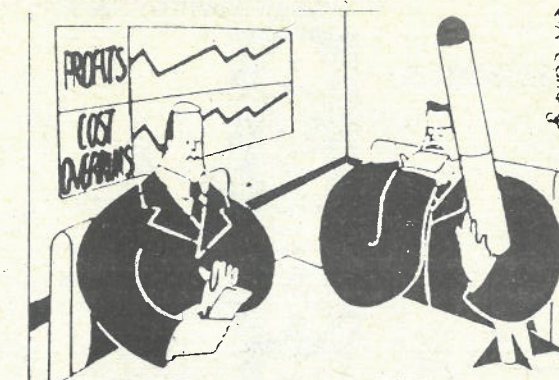
Many university students are already in a position where furthering their education involves tailoring their courses to chase corporate sponsorship. Public schools, at least in NSW may also soon find themselves specialising in subjects which attract the corporate dollar. One of the first results of the 'corporatising' of NSW high schools was the end of the peace studies course and the opening of 'Technology High Schools' sponsored by arms companies.

### ARMS AGAINST THE ENVIRONMENT

For some reason figures relating to environmental degradation by the military in Australia are extremely hard to come across. We do however have information on what is happening in other countries and can reasonably assume the situation in Australia to be similar. In the United States, the Government General Accounting Office (GAO) estimates that the Department of Defence generates more toxic waste than the five major U.S. chemical companies combined, and this does not include any waste from nuclear weapons! This is the reality of the military manufacturing industry.

The Australian Government, in trying to attract weapons corporations to our shores has given approval in principle for a private enterprise weapons testing range to be built at Maralinga in South Australia and has already recommenced rocket launches from the area. The proposed Space Base on Cape York will also be a new military establishment, with a defence manufacturing centre incorporated in the design. Plans for Jervis Bay have not yet been scrapped and war games similar to Kangaroo89, which saw tens of thousands of Australian and foreign troops wreak havoc on the environmentally fragile areas of northern Australia, are planned for the near future. War games are used to demonstrate and refine military equipment.

Australian weapons are sold to countries such as Malaysia, Indonesia, Brazil and the Philippines where they are used against indigenous people fighting for the preservation of the environment.

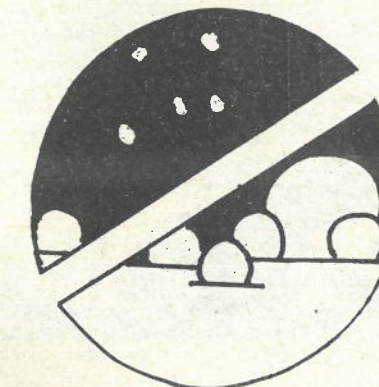


### FOREIGN BASES

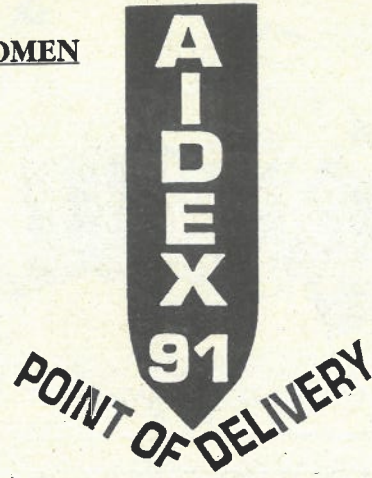
A major facet of Australia's role in the arms trade is the hosting of foreign military bases. Bases are the command, control, communications and intelligence (C3I) groundstations without which modern weapons could not operate. Intelligence information is a weapon in its own right and the selling of information inherent in the hosting of foreign bases is yet another form of weapons trading.

U.S. bases in Australia are exempt from both U.S. and Australian customs and environmental controls, lead, mercury, TCE and PCBs have been found dumped at sites of U.S. bases all over the world. The links between foreign bases and drug trafficking and the incidence of venereal diseases are well documented.

Foreign bases in Australia are used to alienate Aboriginal land, conduct other countries wars and spy on our neighbours. They constitute a serious health risk, are the cause of many social problems and an insult to Australia's sovereignty.



WAR ON WOMEN



In the forty four years between 1945 and 1989 more than 13 000 000 civilians (official figures only) have been killed in wars, more up to date figures are not yet available.

Of these 13 000 000 civilians, most have been women and children. Women are the first to go without food, shelter or education in times of poverty. Women are first to go without necessities in times of war. Women are the targets of indiscriminate bombing raids. Women are raped and tortured both by invaders and the armies of 'their side'. Women are used as 'entertainment' by troops at military establishments. Women are the victims of diseases from which they have no protection. Women are left to care for the children, the old, the mutilated.

War and the planning for war is the ultimate paradigm of the present patriarchal system.

Of the 900 people listed as company representatives in the AIDEX89 catalogue, less than 8% were women and all but a few of those were listed as either secretaries or 'market consultants'.



The arms trade is carried out by men for men, it is but one of the methods used in the subjugation of women.



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MAJOR EXHIBITORS BACK IN FORCE

The unqualified success of Aidex '89 has already resulted in bookings from major national groups and individuals for this year's big show. PHONE OR FAX NOW FOR DETAILS



"South Australian exhibitors very satisfied ..."  
Roger Clark  
Dept. State  
Development and  
Technology

"All exhibitors on the New Zealand stand felt that Aidex '89 was very successful ..."  
A.J. Miller  
Trade Commissioner

"... a success far exceeding our expectations ..."  
Jorgan Hauberg  
Information Electronics  
Ltd.

"Our participation most satisfactory ... very high level of enquiries for our company's products and services ..."  
Paul Lipscombe  
Aerospace Technologies  
Aust.

"... many enquiries from overseas and Australian companies, as well as from the Services ..."  
John Wyllie  
DSTO

"An extremely well run and professional exhibition ... delighted with the response for U.S. firms ..."  
Barry Williams  
U.S. Foreign Commercial  
Service



Contact Bob Day:  
Phone: (02) 428 4311  
Fax: (02) 427 6600

DESIKO PTY. LTD. (The Australian Trade Fair Company)  
P.O. Box 290, Lane Cove, NSW 2066, Australia.

**ECONOMICS**

There are three main arguments used to defend the push for an increase in weapons production.

- \*that weapons production creates jobs and stimulates employment in related areas.
- \*that weapons production earns export dollars which helps Australia's balance of payments.
- \*that research into weapons technology has technological spin offs which are beneficial to other areas of production.

**JOBS**

The myth of weapons based job creation belies the facts.

In the U.S.A. \$1 000 000 spent on missile production creates 9 jobs. Spending the same money on producing military aircraft would create 14 jobs; on cleaning up air, water and solid waste pollution 16.5 jobs; on local transport 21.5 jobs; on education 63 jobs. In Germany each \$1 000 000 cut from the military budget and spent on alternative programs would create between 1.5 and 11 new jobs. In India, a country where people are starving, over 100 jobs could be created in agriculture for every job lost in an ordnance factory.

'Jobs for Australians' is nothing more than a cynical attempt by government and industry to keep Australian workers quiet on this issue.

**B.O.P.'S**

When export earnings of up to a billion dollars are spoken of in proud voices by the proponents of the weapons industry it is like a habitual gambler boasting his winnings and failing to mention his outlay.

Much of the revenue gained by arms exports leaves the country as soon as it comes in as the low taxed, untaxed or even negative taxed profits of foreign weapons companies.



Money spent by the Australian Government on testing ranges, security services and infrastructure for these companies and in Government staff monitoring etc would more than outweigh any financial gain for Australia. Even if the benefits were real, the morality of such ill begotten financial gain is highly questionable.

**TECHNOLOGICAL SPIN OFFS**

The Defence Science and Technology Organisation (DSTO), the research arm of the Australian Defence Department employs over 4 000 people. It is true that there are some spin offs from defence technology such as signalling systems for trains, marine dye markers, new alloying techniques etc, but when considered in terms of 67 200 000 person hours, including the time of some of the best research scientists in the world, it is very hard to find enough spin offs to justify this argument in the period from 1981 to the present. When you add to this figure of over 67 million hours the weapons research undertaken both privately and in universities, useful technology spin offs end up being very expensive.

According to Prof. Melman, (Prof. Industrial Engineering, Columbia University) in a talk given in Sydney, a reason for this is that scientists in the defence field work on a 'cost-maximising' basis. He cites as an example the coffee making machine for the C5B military freighter which costs \$7 622 but can still function at 40 times the force of gravity, thus the plane could crash, the crew die, but the machine would go on making coffee.

The civilian spin offs from this technology are obvious.

# HIROSHIMA REMEMBERED 1991

## "HIROSHIMA — NEVER AGAIN"

Every year in early August, millions of people all over the world come out into the streets to proclaim "No More Hiroshimas." Government leaders attend ceremonies and pat each other on the back for having gone another twelve months without even once having used a nuclear weapon in anger. Prayers are said for the Japanese victims of the Hiroshima and Nagasaki bombings. The thousands of Korean victims who were forcibly taken to Hiroshima and Nagasaki as labourers during the war, are by and large forgotten as the USA prepares to 'help' North Korea act like a responsible international citizen', (Bushspeak for destabilise and invade). Many governments continue to murder innocent people through their nuclear weapons programs and the death toll from the use of conventional weapons continues unabated, with over 22 000 000 people killed in wars since the end of World War II.

ALLIS - CHALMERS	ALLIS MINERAL SYSTEMS 45 Hargraves St CARRINGTON 2294 PH 049 69 1200 FX 049 62 2309	produced special purpose pumps and carried out U-235 Electromagnetic Gaseous Diffusion for the Manhattan Project	mineral processing equipment for all Australian mining industries >Connected with SIEMENS (see general list)
BABCOCK	BABCOCK ENG. (AUST) P/L 570 BLAXLAND RD EASTWOOD 2122 PH 02 804 6077 FX 02 804 6169	produced bomb casings for the Manhattan Project	Medium and heavy engineering now owned by Asea Brown Boveri >see arms trader list
CHRYSLER	Chrysler Australia was taken over by Mitsubishi in 1980 and is no longer a subsidiary of the Chrysler Corp.	produced diffusers for the Manhattan Project - a process which had effectively stymied the project until the assistance of the Chrysler Corp. was offered	It is ironic that this company is now owned by Mitsubishi - whose factories were 'ground zero' for the Nagasaki bomb >see MITSUBISHI in the general arms dealers list
DU PONT	DU PONT (AUST) 168 Walker St NTH SYDNEY 2060 PH 02 923 6111 FX 02 929 7217 636 St Kilda Rd MELBOURNE 3004 PH 03 522 3111 FX 03 529 6870	produced the plutonium for the Manhattan Project	produce a variety of chemical products many of which are used by military manufacturers >consumer products include agricultural goods such as pesticides, carpet and TEFLON

Nowhere is the mockery and cynicism with which the bombings of Hiroshima and Nagasaki are held by world leaders more evident than in the corporate world of weapons production.

The same companies which profited then are still profiting today. Profiting from the war mongering of governments such as the Australian Government who sycophantically offer oblation to the masters of war, the source of their power.

In the corporate world of weapons production there are no sides, no winners and no losers, only a profit to be made. The same company whose factories were 'ground zero' of the Nagasaki blast has, unlike its employees, survived quite well and is now happily building weapons in collaboration with the companies which produced the bomb that hit them.

The table on these pages gives some indication of who was involved and how. It can be seen quite clearly that the stereotype of the arms manufacturer as a company producing bullets and guns must be set aside. All of the companies listed and many more, knew what they were building and why they were building it.

Some companies may have diversified, changed ownership, swapped divisions or flags with each other, but their structure remains the same.

GENERAL ELECTRIC CO.	GENERAL ELECTRIC CO. USA 8 Stephen House 32 Thesiger Court WEST DEAKIN CANBERRA 2600 PH 06 281 0565 FX 06 285 1673	carried out U-235 Electromagnetic gaseous diffusion for the Manhattan Project	This division of GEN ELECTRIC produces aerospace weaponry other divisions in Australia market a range of electrical consumer goods under the General Electric name
UNION CARBIDE	UNION CARBIDE (AUST) 1-7 Jordan St Gladesville 2111 PH 02 879 6066 FX 02 817 3318	carried out part of the gaseous diffusion process for the Manhattan Project	produce all manner of chemicals >one of the planets largest polluters, refusing to clean up its tailings in the US and responsible for the Bhopal Chemical disaster in India >recently sold off its EVEREADY & GLAD divisions
WESTINGHOUSE	WESTINGHOUSE ELECTRIC (AUST) 49 Minowera Rd VILLAWOOD 2163 PH 02 724 7322 FX 02 724	produced the first plutonium for the Manhattan Project and also took part in the diffusion process	Produce many different consumer and military products under the WESTINGHOUSE name > Westinghouse is also represented in Australia by RM & HA CHRISTIE and MAYFIELD (see General Arms Trader List)



**A SELECTION OF AUSTRALIA'S ARMS EXPORTS DURING THE 1989-90 FINANCIAL YEAR**

COUNTRY	COMPANY	PRODUCT
AUSTRIA	GSA RANDATA	ENCRYPTORS
BANGLADESH	AUSTRALIA'S 5th LARGEST CUSTOMER	NO SPECIFIC INFORMATION
BELGIUM	GSA RANDATA	ENCRYPTOR
CANADA	AUSTRALIA'S 7th LARGEST CUSTOMER HAWKER DE HAVILLAND NORMALAIR GARRETT	TEMP SENSORS FA-18 PARTS
CHINA	AUSTRAL GUN COMPANY	SHOTGUNS & CARTRIDGES
FRANCE	AUSTRALIA'S 9th LARGEST CUSTOMER HAWKER DE HAVILLAND	RELAY & ALARM PANELS
GERMANY	AUSTRALIA'S 8th LARGEST CUSTOMER AUSTRALIAN AUTOMATIC ARMS AWA	SEMI AUTOMATIC RIFLES BATTERY POWER SUPPLY
GUAM	OLIN	SHOTSHELL & RIMFIRE CARTRIDGES
HONG KONG	IBM	VARIOUS COMPONENTS
INDONESIA	AUSTRALIA'S 11th LARGEST CUSTOMER ICI	SEISMIC EXPLOSIVE
JAPAN	IS AUSTRALIA'S 10th LARGEST CUSTOMER OLIN	SHOTSHELL CARTRIDGES
MALAYSIA	AUSTRALIA'S 12th LARGEST CUSTOMER UNIVERSAL DEFENCE STANLITE HAWKER DE HAVILLAND ADI	COMPUTER & CONTROL SYSTEMS SHIP COMMUNICATION PARTS PT6 ENGINES SMOKELESS POWDER

COUNTRY	COMPANY	PRODUCT
NETHERLANDS	AUSTRALIA'S 6th LARGEST CUSTOMER GSA RANDATA	ENCRYPTION EQUIPMENT
NEW CALEDONIA	OLIN	RIMFIRE, CENTREFIRE & SHOTSHELL CARTRIDGES
NEW ZEALAND	AUSTRALIA'S 2nd LARGEST CUSTOMER OLIN	SHOTSHELL & LEADSHOT CARTRIDGES LIQUID OXY CONVERTER EXHAUST DIFFUSER JAILING SHOTSHELL SMLE RIFLES J500T TERMINAL AUTO PILOT PROGRAMMER CENTURION TANK SOFTWARE & WASP AIRCRAFT SPARES TUNGSTEN PENETRATORS
NORWAY	AUSTRALIAN HARD METALS	
OMAN	HAWKER DE HAVILLAND	ELECTRONIC & FUEL CONTROL UNIT LYCOMING ENGINES
PAPUA NEW GUINEA	ADI OLIN	RIFLES & PARTS SHOTSHELL, AMMUNITION & POWDER
PHILIPPINES	AUSTRALIA'S 4th LARGEST CUSTOMER ONLY INFORMATION AVAILABLE IS BURNES CORLETT	DRAWING SPECIFICATION SERVICES
SINGAPORE	AUSTRALIA'S 14th LARGEST CUSTOMER ERACOM	ELECTRONIC SECURITY MODULE POWERGEL EXPLOSIVE
	ICI	
SOUTH KOREA	IBM OLIN	ENCRYPTORS SHOTSHELL CARTRIDGES

COUNTRY	COMPANY	PRODUCT
SWEDEN	HAWKER DE HAVILLAND	TRANSCIEVER
SWITZERLAND	HAWKER DE HAVILLAND AUSTRALIAN AUTOMATIC ARMS	CIRCUIT BREAKER SEMI AUTOMATIC CARBINES
TAIWAN	FULLER FIREARMS	BROWNING SHOTGUNS
THAILAND	AUSTRALIA'S 13th LARGEST CUSTOMER OLIN IBM ADI	SHOTSHELL CARTRIDGES ENCRYPTOGRAPHIC EQUIPMENT BOFORS 40/60 GUNS
TONGA	OLIN	PROJECTILES & CARTRIDGES
U.K.	AUSTRALIA'S 3rd LARGEST CUSTOMER PLESSY PHILLIPS WARWICK FIREARMS	RADIO EQUIPMENT SUBMARINE LOCATOR BEACONS GUNS & SPARES
U.S. FORCES (PHILIPPINES)	NORMALAIR GARRETT ANSETT TECHNOLOGY	VALVE AIRCRAFT SPARES
U.S.A.	AUSTRALIA'S LARGEST CUSTOMER BRYBURN TRADING HAWKER DE HAVILLAND  NORMALAIR GARRETT GUIDO ZUCCOLI  ROSEMOUNT INSTRUMENTS DUNLOP AEROSPACE BRITISH AEROSPACE KIRBY ENGINEERING	MACHINE GUN PARTS & ACCESSORIES CONTROL UNITS, INSTRUMENT PANELS AIRCRAFT & HELICOPTER PARTS CONTROL UNITS & ACTUATORS F86 WING & BODY PANELS  ENGINE ICE DETECTORS AIRCRAFT WING PARTS INTERFACE BOARDS BOATTAILS

**This list is by no means meant to be conclusive, its purpose is rather to give some indication of the countries, companies, and arms involved**

## THE MASTERS OF WAR

### WHO ARE THE MASTERS OF WAR? WHO IS IT THAT PROFITS FROM SPREADING THE DISEASE OF MILITARISM?

The pages that follow are full of companies operating in Australia that supply military products and services. The first step in challenging the Masters of War is to expose them.

There is a misapprehension that is rife among both people working on peace & justice issues and the community at large, that all arms dealers sell guns and bullets, bombs, planes and tanks.

The military industrial complex is indeed, a lot more complex than that.

Supplies of computer software, sleeping bags, tyres, buildings, water purifiers, food, switchboards, paint... anything which is designed for or adapted to military use is a weapon, from the stealth bomber to a soldier's boots. It all feeds the same machine.

The companies listed in these pages have been selected according to two criteria:

1. those that we know are supplying either the military or supplying a military supplier with specialised military components or
2. actively seeking to supply the military industry through such endeavours as advertising in military journals or displaying their wares at war fairs such as AIDEX.

All of this information is freely available, a lot of it was lifted straight from their boastful advertisements.

Some of these companies are your cliché Masters of War, others are just greedy little businessmen who don't care where they get their money.

Some of these companies are suppliers of nuclear weapons, pulling the strings of governments, others are lackeys, competing with each other for a slice of the war spoils.

### ALL ARE PROFITEERS.

**AAI CORPORATION**

36 COOYONG RD  
TERRY HILLS NSW 2084

PH- 02 450 2080  
FX- 02 450 2849

REGIONAL MANAGER: KEVIN CARROLL

AAI products include ammunition/ordnance/smoke systems; combat vehicles; missiles and robotics.

**AERMACCI S.P.A**

SEE NICOLL COOKE ASSOCIATES

**AERO DATA SYSTEMS P/L**

MAIN TERMINAL BUILDING  
ESSENDON AIRPORT VIC 3041

PH-03 379 8221

CONTACT: JOHN GANNELL

AERO DATA produce test systems for the AUSTRALIAN Defence Force and have recently been looking for overseas military sales (COMDEF90)

**AEROSPACE AND DEFENCE PRODUCTS**

SUITE 4, 53 KALANG RD  
ELANORA HEIGHTS NSW 2101

PH-02 913 2599  
FX-02 913 1468

MANAGING DIRECTOR: R J COLEMAN

REPRESENTING: STRUTHERS-DUNN INC.

- (relays & timers)
- PCD INC.  
(connectors)
- OTTO CONTROLS  
(aircraft switches)
- KORRY ELECTRONICS  
(switches)
- WAMCO INC.  
(navigation systems)
- OSHINO  
(lamps & leds)
- CMP LAMP DISPLAY SYSTEMS  
(lit panels)

EG&G ALMOND  
(power supplies)  
HI G  
(miniature relays)  
AVTECH  
(aircraft electronics)

**AFFINITY METALS P/L**

1648 CENTRE RD  
(PO BOX 103)  
SPRINGVALE VIC 3171

PH-03 546 3855  
FX-03 547 5950

MANAGING DIRECTOR: P KOLLINER

AFFINITY METALS are producers of high quality alloy metals  
AGENTS FOR: ANGLO BLACKWELLS LTD(UK)  
(alloys)  
SPECIALLOY INC (USA)  
(alloys)  
AFTS

**AUSTRALIAN FLIGHT TEST SERVICES P/L**

INNOVATION HOUSE WEST  
FIRST AVE  
TECHNOLOGY PARK  
THE LEVELS SA 5095

PH-08 260 8241  
FX-08 343 8888

MANAGING DIRECTOR: H C BRADFORD

AFTS offer test pilots, flight test engineers, aeronautical systems analysts, computer engineers & logisticians to the aerospace industry. Other capabilities include: aeronautical, electronic & systems design assistance to Australian & US military specifications.

**AGORDIA P/L**

4 BUNKER COURT  
ALBURY NSW 2640

PH-060 41 3806  
FX-060 41 1256

AGORDIA have been appointed international marketing advisers to HIGH ENERGY BATTERIES (India) Ltd. manufacturers of special purpose batteries for Mirage & Jaguar fighters, strike aircraft, mig21-23, helicopters, missiles, torpedoes & space vehicles.

AGORDIA are also agents for the "Weaponer" system (as used by the US army & Marine corps) which simulates battle conditions including moving targets, and "Superlites" 1 000 000 candlepower torches.

**AJAX CHEMICALS****A DIVISION OF CLYDE INDUSTRIES LTD**

FACTORY ST.  
GRANVILLE NSW 2142

PH-02 682 1400  
FX-02 682 6771

*BUSINESS MANAGER: JIM SHORT*

ALSO AT

9 SHORT ST, AUBURN NSW 2144  
390 MARION ST, BANKSTOWN NSW 2200  
291 WOODPARK RD, SMITHFIELD NSW 2164  
4/10 WILLIAM ST, ADAMSTOWN NSW 2289  
HAMLET ST, CHELTENHAM VIC 3192  
739 PROGRESS RD, WACOL QLD 4076  
21 PAMBULA ST, REGENCY PARK SA 5010  
1/236 EPSOM AVE, BELMONT WA 6104

AJAX offer surface systems treatments for aircraft & engines to the Australian & US military.

**ALCATEL STC CANNON P/L**

248 WICKHAM RD  
MOORABIN VIC 3189

PH-03 555 1566  
FX-03 553 3801

ALSO AT

1 ROSEBERRY AVE ROSEBERRY NSW 2018  
28 MAGILL RD NORWOOD SA 5067  
545 QUEEN ST, BRISBANE QLD 4000

ALCATEL are manufacturers of electronic/electric components & equipment to the military industry.

Recent sales include components to the USA.

**AMECON****AUSTRALIAN MARINE ENGINEERING CONSOLIDATED**

*SEE TRANSFIELD*

**A.M.P.**

NATIONAL OFFICE  
LOFTUS ST  
SYDNEY NSW 2000

PH-02 257 258  
FX-02 257 2550

**BRANCHES EVERYWHERE**

A.M.P wholly own COMPUTER SCIENCES AUSTRALIA and are a major shareholder in STANLITE. AMP needs its clean Australian image to be challenged.

*SEE ALSO COMPUTER SCIENCES AUSTRALIA P/L*

*STANLITE*

**ANDREW AUSTRALIA**

153 BARRY RD  
CAMPBELLFIELD VIC 3061

PH-03 357 9111  
FX-03 357 9110

ANDREW AUSTRALIA are a part of the international family of ANDREW companies, whom they represent. ANDREW AUSTRALIA are manufacturers and importers of antennas, ground station equipment, microwave & surveillance equipment. brands include KINTEC, GRANGER, ANDREW & DELTA

REPRESENT: DELTA ELECTRONICS (USA)

## ANSETT TECHNOLOGIES

### A DIVISION OF ANSETT AUSTRALIA

HEAD OFFICE  
6 CARIBBEAN DRV  
SCORESBY VIC 3179

PH-03 765 2777  
FX-03 764 1712

GENERAL MANAGER: M COOMER

ANSETT TECHNOLOGIES design, integrate, overhaul & repair radar, surveillance, navigation (airborne & marine), flight data & electronic warfare systems.

Recent exports include components and extended pilot training program to the US forces in the Philippines.

TNT are the major shareholder of ANSETT

SEE TNT

## ANTHOR INTERNATIONAL

LEVEL 2  
8-24 KIPPAX ST  
SURRY HILLS NSW 2010

PH-02 282 6901  
FX-02 281 2546

MANAGING DIRECTOR: T BEOWULF

ANTHOR are consultants to advanced technology, defence, aerospace, electronics and communications industries. They have offices in Sydney and Bangkok with associates in Canberra, Melbourne, USA, UK and the Philippines. They provide market analysis, government liaison, product development and export marketing services to defence industries.

## ARNOLD INDUSTRIES

1954 SYDNEY RD  
CAMPBELLFIELD VIC 3061

PH-03 357 8900  
FX-03 357 8232

MANAGING DIRECTOR: C ARNOLD, MANAGER CONTRACTS: P YOUNG

ARNOLD products include: concertina barbed wire (black or galvanised, with or without sensor wires); barbed tape; razor wire (available in jungle green); rapid wire dispensers and vehicle restraints.

ARNOLD ARE ALSO THE SOLE REGIONAL AGENT FOR THE RANGE OF:  
SIEMENS AG (GERMANY) & BIGOTEC AG (SWITZERLAND)  
detection & alarm systems.

SEE ALSO SIEMENS

## ASEA BROWN BOVERI

376 NEWBRIDGE RD  
LIVERPOOL NSW 2170

PH-02 602 8222  
FX-02 602 2454

EXECUTIVE GENERAL MANAGER: A B FLEMING

ASEA BROWN BOVERI design and manufacture ship service switchgear, control panels, switchboards & combat system boards (to US military spec) for naval combat vessels.

## ASPECT COMPUTING

551 GLENFERRIE RD  
HAWTHORN VIC 3122

PH-03 818 0604  
FX-03 818 1320

MANAGING DIRECTOR: MRS M CATTERMOLE, DESINE MANAGER: C ANDERSON

ALSO AT

122 ARTHUR ST, NORTH SYDNEY NSW 2060  
80 NORTHBOURNE AVE, BRADDON ACT 2601  
213 GREENHILL RD, EASTWOOD SA 5063

ASPECT offer consulting, development, education & management services. Technical support and training is offered to the military industry by their DESINE division.

## ASSOCIATED SURVEYS INT. P/L

SURVEY HOUSE  
18 PROWSE ST  
WEST PERTH WA 6005

PH-09 322 4955  
FX-09 322 1775

ASSOCIATED SURVEYS provide survey services including aerial mapping, (both from photo & satellite imagery) and are developing a large survey computer bureau in support of their services.

## ASTA

### AEROSPACE TECHNOLOGIES OF AUSTRALIA P/L

226 LORRIMER ST  
PORT MELBOURNE VIC 3207

PH-03 647 3111  
FX-03 645 3424

CHAIRMAN: SIR B INGLIS, MANAGING DIRECTOR: G STUART

ASTA is involved in all aspects of the aerospace military industry, ASTA's products include: the Jindavik target aircraft system; Icarus precision gliding munition system; and the Icara box launched anti submarine missile. ASTA have contracts with BOEING

### ASTA MILITARY AIRCRAFT SERVICES

BEACH RD  
LARA VIC 3212

PH-052 82 2988  
FX-052 82 3345

MANAGING DIRECTOR: G STUART, MANAGING DIRECTOR: JOHN JANSEN

ASTA MAS are responsible for the assembly and testing, repair of aircraft such as the Nomad; Mirage; FA18 and S70B 2 helicopter. They are also a major component manufacturer for the PC9 AIRCRAFT.

SEE ALSO BOEING

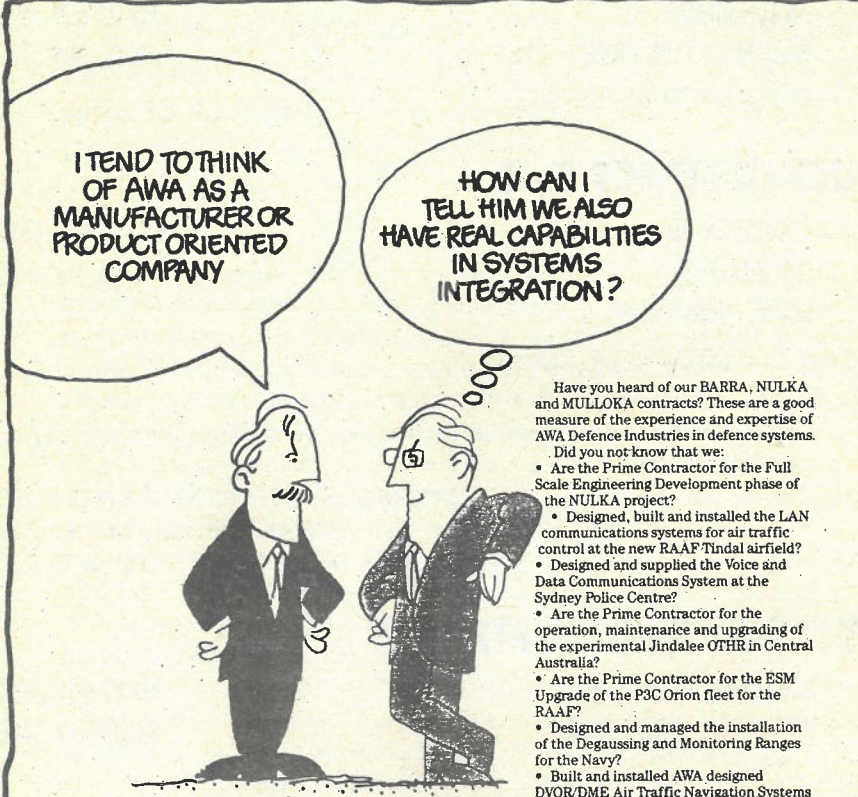
## AUSPACE LIMITED

PLESSEY BUILDING FERNHILL PARK  
THYNNE ST, BRUCE ACT  
(PO BOX 1992)  
CANBERRA ACT 2601

PH-06 251 4466  
FX-06 251 5826

MANAGING DIRECTOR: T STAPINSKI

AUSPACE provide aerospace & military related system/project management; electronic/mechanical design ; system & electro-optical engineering; software development & signal processing.



Have you heard of our BARRA, NULKA and MULLOKA contracts? These are a good measure of the experience and expertise of AWA Defence Industries in defence systems.

Did you not know that we:

- Are the Prime Contractor for the Full Scale Engineering Development phase of the NULKA project?
- Designed, built and installed the LAN communications systems for air traffic control at the new RAAF Tindal airfield?
- Designed and supplied the Voice and Data Communications System at the Sydney Police Centre?
- Are the Prime Contractor for the operation, maintenance and upgrading of the experimental Jindalee OTHR in Central Australia?
- Are the Prime Contractor for the ESM Upgrade of the P3C Orion fleet for the RAAF?
- Designed and managed the installation of the Degaussing and Monitoring Ranges for the Navy?
- Built and installed AWA designed DVOR/DME Air Traffic Navigation Systems both in Australia and overseas?

• Designed and built the F/A-18 Avionics & Ground Test Equipment?

AWA is the largest Australian owned high technology and electronics communications company. Some 33% of its revenue is from defence and related activities.

Our total commitment is demonstrated through our investment, expanding capabilities and the successful pursuit of key strategic acquisitions. We fully support a strong indigenous Australian defence industry.

The collective experience and basic skills in large-scale systems integration, program management and manufacturing puts AWA Defence Industries in the forefront with our major competitors.

AWA Defence Industries comprises AWA Defence Industries Pty Limited in South Australia, C3 Pty Limited which has branches in Sydney, Adelaide and Canberra, and AWA Limited's Defence Industries, NSW Division at North Ryde and The Electronic Services Division which operates throughout Australia and has workshops in all the major capital cities.

**AWA Defence Industries Pty Ltd**  
(Incorporated in A.C.T.)

Endeavour House, Module 3, Fourth Ave, Technology Park SA 5095.  
Tel: (08) 349 8009 Fax: (08) 260 8938  
422 Lane Cove Road, North Ryde NSW 2113.  
Tel: (02) 887 7111 Fax: (02) 887 7701

AWD1006

### AUST AMEC P/L

70 HASSALL ST  
WETHERILL PARK NSW 2164

SEE MAYFIELD (A DIVISION OF AUST AMEC)

PH-02 609 1044  
FX-02 609 5187

### AUSTERNETICS P/L

1 ADDISON RD  
(PO BOX 503)  
MANLY NSW 2095

CHAIRMAN & MANAGING DIRECTOR: P MORGAN.

PH-02 977 1194  
FX-02 977 4582

AUSTERNETICS products include: space systems & components and (electro & propulsion) defence systems.

REPRESENTS: S.A. MATRA-SPACE (PARIS)  
AEROJET GENERAL CORP (USA)

TRW COMPONENTS INTERNATIONAL INC. (USA)

### AUSTRAL GUN COMPANY

SALISBERRY LANE  
ROSEBERRY NSW 2018

AUSTRAL GUN products include shotguns & cartridges.  
Recent sales include shotguns & cartridges to China

PH-02 662 2666  
FX-02 662 2430

### AUSTRALIAN AUTOMATIC ARMS P/L

PO BOX 10  
KEMPTON TAS 7030

MANAGING DIRECTOR: D M JONES

PH-002 59 1172  
FX-002 59 1250

A A A'S products include: 5.56mm weapons; pistols; carbines and both semi automatic & selective fire rifles, m16 type magazines & accessories. A A A are quite proud of their new 9mm weapon, currently being promoted by AUSTRADE as "aimed (sic) specifically at police, military and anti-terrorist forces around the world"

### AUSTRALIAN DEFENCE INDUSTRIES LTD

10-12 BRISBANE AVE, BARTON, ACT  
(PO BOX E349  
QUEEN VICTORIA TERRACE)  
CANBERRA ACT 2600

PH-06 270 6711  
FX-06 270 6744

MANAGING DIRECTOR: K A HARRIS

ADI are into anything that kills. Products include: Steyr AUG A1 assault rifle (F88); "MINIMI" multipurpose 5.56mm machine gun; 105mm Hammel gun; rocket motors for the "Rapier" missile; a wide range of general ammunition; mechanical & electric fuses (including the new 81mm mortar & plastic hand grenade); 20mm phalanx ammunition; TC800 tank canister round; 40mm 160 close range gun system; sounding rockets; torpedo discharge equipment; propellants; pyrotechnics & explosive products and military clothing. adi also carry out major ship repair & refit; refurbishment of small arms & small & large weapons systems and provide engineering and training services.

Recent exports include smokeless powder to Malaysia & the Philippines, BOFORS 40/60 to Thailand, rifles & parts to Papua New Guinea and ammunition to Indonesia. ADI now include a training system division previously trading as DART DEFENCE, in Albury.

ADI was once a network of autonomous manufacturing establishments within the Department of Defence. after restructuring it is a commercially oriented independent enterprise owned by the AUSTRALIAN GOVERNMENT -ADI advertisement for AIDEX, carried the logo, "TOP GUN DEFENCE" In March 1990 ADI opened its first overseas office. The office in Kuala Lumpur was opened by the Malaysian Defence Minister, Tengku Ahmad Rithauddeen.



ADI

The strategic edge

## AUSTRALIAN INDUSTRIES DEVELOPMENT CORPORATION (AIDC)

201 KENT ST  
SYDNEY NSW 2000

PH-02 235 5155  
FX-02 235 5195

ALSO AT 60 MARCAS CLARKE ST, CANBERRA ACT 2601

360 COLLINS ST, MELBOURNE VIC 3000

CRN QUEEN & CREEK STS, BRISBANE QLD 4000

77 ST GEORGES TCE, PERTH WA 6000

100 KING WILLIAM ST, ADELAIDE SA 5000

AIDC is a semi-government organisation that provides loans and equity contributions to industry. AIDC hold 47.5% of AUSTRALIAN SUBMARINE CORPORATION's shares.

## AUSTRALIAN HARD METALS

WOODSTOCK ST  
MAYFIELD NSW 2304

PH-049 67 2444  
FX-049 67 6438

MANAGING DIRECTOR: C WAUGH

AHM manufacture high-density tungsten alloy for use in ordnance manufacture & radiation shielding and tungsten carbide penetrators.

## AUSTRALIAN NATIONAL INDUSTRIES (ANI)

### ANI RUWOLT

WALLOON RD, KARRABIN  
(PO BOX 327)  
IPSWICH QLD 4305

PH-07 280 7222  
FX-07 202 1928

ANI RUWOLT offer a range of capabilities to defence industries including: iron castings; fabricated sections; machining & gear cutting and mechanical engineering design.

SEE ALSO OTHER DIVISIONS OF ANI:

COCKATOO DOCKYARD, BRADKEN EQUIPMENT

## AUST SHIP BUILDING INDUSTRIES LTD

SEE TRANSFIELD

## AUSTRALIAN SUBMARINE CORP P/L

MERSEY RD OSBORNE SA  
(PO BOX 2472)

PH-08 348 7000  
FX-08 348 7001

ADELAIDE SA 5001

MANAGING DIRECTOR: DR D WILLIAMS

AUSTRALIAN SUBMARINE CORP are the designers and builders of the Collins Class submarines. They advertise as having "unique capabilities in the project management, manufacture and integrated logistic support of complex, multi-disciplined products for defence and other industries". AUSTRALIAN SUBMARINE CORP shareholders are KOOKUMS PACIFIC P/L (50%), AUSTRALIAN INDUSTRY DEVELOPMENT CORPORATION (47.5%) and JAMES HARDIE INDUSTRIES LTD. acquired the remaining 2.5% through RCI LTD, a wholly owned subsidiary of the JAMES HARDIE GROUP

SEE ALSO KOOKUMS PACIFIC

AUSTRALIAN INDUSTRY DEVELOPMENT CORPORATION

\*ASC have just announced their purchase of the Carrington Slipway Shipyards, Newcastle and are competing with a Spanish firm for the A\$194.3 million patrol boats contract with the Philippines Government. If ASC are successful they will probably use the Newcastle Shipyards for this project.

## AUSTRALIAN TECHNICAL PUBLICATIONS

PO BOX 146  
ST AGNES SA 5097

PH-08 255 5010  
FX-08 287 1370

GENERAL MANAGER: J HALEY

ATP provide complete production of support technical documentation to Australian military standards & various other standards associated with defence. engineering research, design and development, software design & documentation.



## AVIATION TURBINE OVERHAUL P/L

HANGAR 59  
MOORABBIN AIRPORT  
MENTONE VIC 3194

PH-03 580 5511  
FX-03 580 1236

GENERAL MANAGER: T ROSE

AVIATION TURBINE OVERHAUL repair, maintain & overhaul ALLISON 250 engines, modules & ancilliary equipment.

## AWA

### AWA DEFENCE INDUSTRIES (AWADI)

ENDEAVOUR HOUSE, MODULE 3  
4TH AVE  
TECHNOLOGY PARK, SA 5095

PH-08 349 8009  
FX-08 260 8938

ALSO AT

422 LANE COVE RD, NORTH RYDE, NSW 2113  
BLDG 233 INDUSTRIAL AREA, DSTO, SALISBURY, SA 5108  
67 LORDS RD, LEICHHARDT, NSW 2040  
133 NEWCASTLE ST, Fyshwick, ACT 2607

ROSS FOSTER at AWADI ELECTRONIC SERVICES DIVISION oversees the Australian infrastructure management of the NURRUNGAR SPY BASE, he can be contacted by phone on 02 887 7111 or faxed on 02 887 7701.

AWADI specialises in electronic warfare; signal processing command & control and electro optics. AWADI has extensive experience in collaborative contracting with overseas companies. The company offer many different products & services to the military industry, From weapon mounted torches to the Australian management of Nurrungar & the Jervis Bay test range.

Recent sales include muzzle velocity indicators to India and Malaysia.

AWADI is 30% owned by the SOUTH AUSTRALIAN SUPERANNUATION INVESTMENT TRUST and 20% by the SOUTH AUSTRALIAN STATE GOVERNMENT INSURANCE OFFICE

SEE ALSO C3 P/L (A WHOLLY OWNED SUBSIDIARY OF AWADI)

## RELIABILITY

HORNETTALES



### "ONE QUICK ACTION"

"My wingman and I were on a practice interdiction mission west of Newcastle, just into the Singleton war zone. We'd already descended to low level for target ingress and my element was in a three mile trail behind the lead, doing 500 knots. The RWR lit up - hostile air intercept radar at 3 o'clock.

"Looking up I caught a glimpse of two bandits at 36,000 feet beginning a conversion. So I padlocked them, called my wingman to pitch up with me and selected air to air mode

"So I padlocked them, called my wingman to pitch up with me and selected air to air mode with one quick action."

with one quick action.

"A quick turn and I was able to nail the far bandit with an AIM9, but was forced to power back to avoid the head on IR missile. With that taken care of we merged inverted to 6000 feet. The other bandit was behind and above me, engaging my wingman.

"The aircraft began to shudder as airspeed decayed, a penalty for the heavy manoeuvring with two tanks and two Mk 82's. I slammed the

throttles into max after-burner and pulled up for the shot.

"Within seconds the reassuring surge of thrust came and I got the nose on, good tone and shot.

"The whole engagement was flown eyes out of the cockpit' and lasted only 40 seconds. With both bandits dead we descended to low level and pushed it up to 600 knots to catch up time. We delivered our weapons right on target at Singleton, on time and got home unscathed."

### THE F/A-18 FAMILIARITY BREEDS AWE.

The F/A-18 strike fighter is a highly effective force multiplier - one plane with one pilot capable of flying more tactical missions more effectively than any other fighter aircraft. Hornet Tales are taken from actual pilot interviews. If you have a Hornet Tale to tell us about, send your name, address and telephone number to: McDonnell Douglas Hornet Tales, GPO Box 684, Canberra A.C.T. Phone (062) 47 0899. McDonnell Douglas prime contractor, Northrop principal subcontractor.

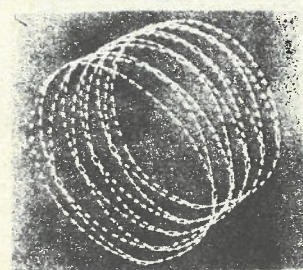
**MCDONNELL DOUGLAS**

JWT/Reel/0383P0003

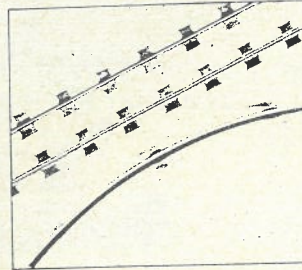


## NOW IN AUSTRALIA... A FULL RANGE OF PERIMETER SECURITY CAPABILITIES.

Arnold Industries, manufacturers of industrial gates and fences have now been appointed agents for SIEMENS and BIGOTEC Perimeter Security Systems. This means Arnolds can offer a full range of security products and systems to suit most Industrial, Government and Military needs.



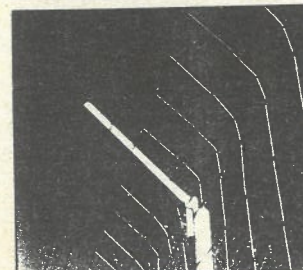
**CONCERTINA BARBED WIRE** Military style with mechanical spring wire for line wire, with 4 point barbs.



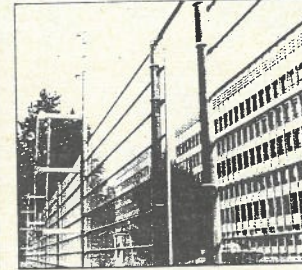
**NATO** Nato style or Razor type. Sensed or unsensed. Galvanised or stainless steel.



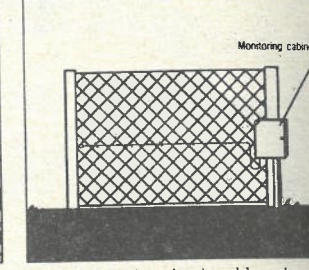
**HEAVY DUTY CHAIN MESH** To 6.3mm thick (1/4"). PVC covered. Prevents vehicle ramming. Also small aperture.



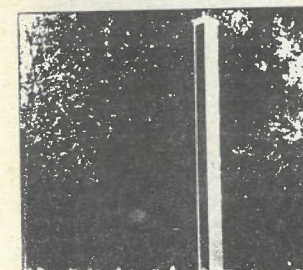
**PISTOP** A fence construction comprising an endless DC loop. PISTOP - a quality product of BIGOTEC.



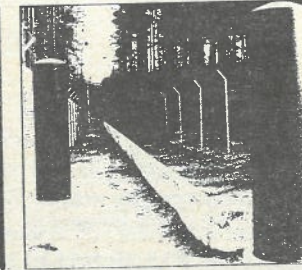
**PERIFELD M** A fence mounted wire system with evaluation control panel which monitors the approach of intruders.



**PERIFON** A microphonic cable system detecting vibrations caused by intruders.



**PERIC** A pulsed active infrared barrier used to detect entry at gateways.



**PERIMIC** A microwave detection system based on radar principles.



**HEAVY DUTY GATES** Custom made in square tube to suit any specification.

Perifield M, Perifon, Peric, Permic - under license to SIEMENS

WE ALSO SUPPLY TURNSTILES, BOOM GATES, TRUCK STOPS AND SLASHERS WHICH CAN BE INTEGRATED INTO ANY SECURITY SYSTEM.

For further details and comprehensive colour catalogue, consult Peter Young  
**ARNOLD INDUSTRIES PTY. LTD. SECURITY DIVISION**  
1954 Sydney Road, Campbellfield, 3061. Tel. 357 8900. Fax 357 8232.



TDR/AH3486

## BAC AUSTRALIAN SYSTEMS P/L

193 POWER ST  
PLUMPTON NSW 2761

PH-02 832 2777  
FX-02 675 3645

DIRECTOR: W BACHMANN

BAC produce workshop & warehouse storage equipment & systems. They are a well established supplier to the Australian Department of Defence and were at AIDEX89

## BARRACUDA TECHNOLOGIES P/L

A SUBSIDIARY OF BARRACUDA TECHNOLOGIES AB (SWEDEN)

GLADSTONE RD  
(PO BOX 535)  
CASTLE HILL NSW 2154

PH-02 680 3388  
FX-02 634 2460

MANAGING DIRECTOR: R FULLER

BARRACUDA are involved in the design, materials supply and sub component manufacture of marine, aerospace & transport structures. BARRACUDA also produce camouflage & deception products with broadband surveillance countermeasure capabilities, composite core adhesives, rigid pvc foam & sound control materials.

## BELDEN ELECTRONICS

AUSTRALIAN SALES OFFICE FOR BELDEN WIRE & CABLE (USA)

34/209 TOORAK RD  
SOUTH YARRA VIC 3141

PH-03 826 0448  
FX-03 8272230

DISTRICT MANAGER (SOUTH PACIFIC): R MCKAIGE

BELDEN are manufacturers of electronic cables including aircraft, communication, multi conductor & fibre optics and many other commercial grades.

## A W BELL AUSTRALIA P/L

4-6 KING ST  
OAKLEIGH VIC 3166

PH-03 568 4622  
FX-03 563 2608

MANAGING DIRECTOR: G BELL, DEFENCE SALES: G DWYER

A W BELL are a ferrous and non ferrous investment foundry, making thin walled aluminium castings for communications, avionics & wave guide applications. They offer a wide specification range to meet all defence requirements.

## BENMAR INTERNATIONAL P/L

54A MARY ST  
HUNTERS HILL NSW 2110

PH-02 879 7308  
FX-02 879 7318

MANAGING DIRECTOR: E PIETOR

REPRESENTING: ELECTRONIC SPACE SYSTEMS CORPORATION (USA)  
(radomes & antenna systems)  
TELLABS LTD (IRELAND/USA)  
(telecommunications products & network access systems)

## BEPAC

### BOFORS ELECTRONICS PACIFIC P/L

A SUBSIDIARY OF BOFORS ELECTRONICS AB (SWEDEN)  
(80% controlled by BOFORS AB and 20% by L M ERICSSON)

ENDEAVOUR HOUSE MODULE 6  
4TH AVENUE  
TECHNOLOGY PARK  
THE LEVELS SA 5095

PH-08 260 8240  
FX-08 260 8299

BEPAC is BOFORS in Australia. For a long time the name BOFORS was synonymous with anti aircraft guns. Today the company supplies a complete range of weapon systems, including air defence and anti tank weapons systems, naval weaponry and artillery. In 1989 BOFORS gained control of the defence electronics group of PHILLIPS ELEKTRONIKINDUSTRIER AB, greatly expanding their slice of the market. BEPAC sees itself as "a market leader in all our product niches. military command & control systems is by far our primary sector of activities. This includes naval systems (shipborne, C3 and weapon control.....), land systems (land-based, C3 and weapon control) and C3I air

defence networks. The sensors & counter measures area covers radar & other special sensors, mine warfare, munition electronics and ECM systems for both airborne & shipborne applications".

BEPAC will supply the command & control systems, the Sea Viking fire control systems and the complete combat system integration for the ANZAC frigates.

REPRESENTS: BOFORS NOBEL INDUSTRIES (SWEDEN)  
COMPRISING BOFORS ELECTRONICS AB  
BOFORS AERONAUTICS AB  
SATECH ELECTRONICS AB  
AND LINDESBERGS INDUSTRIAL AB

## B H P

140 WILLIAM ST  
MELBOURNE VIC 3000

PH-03 609 3333  
FX-03 609 3015

ALSO AT 20 O'CONNELL ST, SYDNEY NSW 2000  
41 CURRIE ST, ADELAIDE SA 5000  
152 WHARF ST, BRISBANE QLD 4000  
221 ST GEORGES TCE, PERTH WA 6000

### B H P AEROSPACE AND ELECTRONICS P/L

476 VICTORIA RD  
(PO BOX 459)  
GLADESVILLE NSW 2113

PH-02 879 9100  
FX-02 879 9200

CHIEF EXECUTIVE OFFICER: M NIELSEN

ALSO AT

103-105 NORTHBOURNE AVE, TURNER ACT 2601

B H P AEROSPACE & ELECTRONICS provide services to the military in the fields of project management, systems & software design / development / integration in surveillance & C3 (command, control & communications) systems; electronic product design, development, manufacture & sourcing, logistic support planning & analysis; through life support services; maintenance and the supply of automated test equipment.

**B H P STEEL INTERNATIONAL GROUP  
SLAB & PLATE PRODUCTS DIVISION**

PORT KEMBLA STEELWORKS  
(PO BOX 1854)  
WOLLONGONG NSW 2500

PH-042 75 7522  
FX-042 75 7173

ALSO ROD & BAR PRODUCTS NEWCASTLE NSW PH- 049 40 2411  
B H P steel supply many different types & grades of steel to the military industry.  
*SEE JAMES NORTH*

**B H PACIFIC P/L**

EAGLE FARM AIRPORT  
(PO BOX 138)  
HAMILTON CENTRAL QLD 4007

PH-07 268 4077  
FX-07 268 7815

*MANAGING DIRECTOR: J MOHARICH*

B H PACIFIC sell, overhaul, repair & provide spare parts support for BELL helicopters and hydraulic components by HYDRAULIC RESEARCH TEXTRON.

REPRESENT: BELL HELICOPTER TEXTRON INC (USA)

**BISALLOY STEELS P/L**

A DIVISION OF EMAIL

FORMERLY BUNGE INDUSTRIAL STEELS P/L

RESOLUTION DRV  
UNANDERRA NSW 2526

PH-042 71 4944  
FX-042 71 847

*NATIONAL SALES MANAGER: J MANNIX*

BISALLOY manufacture armour plate and other specialised steels. They have supplied specialised steel plate to the Australian frigates project as well as other defence contracts in Australia & overseas. BISALLOY is providing the new high strength hull plates for the submarine project.

**BLISS & REELS (WA) P/L**

38 ROWLAND ST  
SUBIACO WA 6008

PH-09 381 9855  
FX-09 382 3896

*PRODUCT MANAGER: D BUNNY*

SOLE AUSTRALASIAN AGENT FOR ZARGES (GERMANY),

producers of Nato standard transit boxes.

**BLOHM & VOSS (AUSTRALIA) P/L**

A SUBSIDIARY OF BLOHM & VOSS AG (GERMANY),

PART OF THE THYSSEN AG GROUP

32-34 ESSINGTON ST  
MITCHELL ACT 2911

PH-06 241 1565  
FX-06 241 3476

*MANAGING DIRECTOR: B CLARK*

BLOHM & VOSS products are mainly in the ship building field and include: 'Simplex' shaft seals; steering gear & stabilizers; 'Turbulo' oily water separators; cargo handlers; boilers; accommodation modules & components and watertight doors. industrial equipment including: total energy plants, welding equipment and industrial robots.

BLOHM & VOSS are the design authority for the ANZAC ship project and offer a range of services such as logistic support and project coordination.

REPRESENTS BLOHM & VOSS AG (GERMANY) AND ASSOCIATE COMPANIES  
WITHIN THE THYSSEN AG GROUP (130 WORLDWIDE).

**BLUNDSTONE P/L**

88 GORMANSTON RD  
MOONAH TAS 7009

PH-002 72 3000  
FX-002 72 3921

BLUNDSTONE are a well known boot company with two factories in Hobart and their own tannery specialising in production of military quality leathers.

**BOEING INTERNATIONAL CORPORATION**

60 MARGARET ST  
SYDNEY NSW 2000

PH-02 247 2747  
FX-02 233 6010

BOEING are one of the largest nuclear weapons contractors in the world. Primarily involved and known for aircraft manufacture, they have agreements & associations with weapons manufacturers all over the world. In Australia HAWKER DE HAVILLAND have contracts to supply BOEING (USA) with many components. BOEING have recently signed a five year association agreement with THOMSON CSF and agreements with Japan's three big heavy industry companies, MITSUBISHI, KAWASAKI AND FUJI. Another 'company' that has just signed a long term agreement with BOEING is the Australian Government.

SEE ALSO THOMSON CSF

MARTIN MARIETTA

**BOFORS**

SEE BEPAC

**BOWTHORPE AUSTRALIA P/L**

105 CAWARRA RD  
CARINGBAH NSW 2229

PH-02 525 2133  
FX-02 526 2495

GENERAL MANAGER: J MC CANN

ALSO AT

5 PIGDON ST, NORTH CARLTON VIC 3054

BOWTHORPE produce connectors & relays, cable binding, terminating & protective systems to military specifications.  
REPRESENTS THE BOWTHORPE HOLDINGS PLC GROUP OF COMPANIES  
INCORPORATING HELLERMAN COMPANIES

**BRADFORD INSULATION**

A DIVISION OF CSR LTD

2 DYND ST  
8 MILSONS POINT NSW 2061

PH-02 964 1444  
FX-02 964 1464

BRADFORD INSULATION provided the thermal & acoustic insulation for the FFG7 guided missile frigates (to US military specifications). This well known company uses the slogan "right on target with BRADFORD insulation" (not in Home Beautiful though)  
BRADFORD INSULATION, like their parent company, CSR, are everywhere.

**BRADKEN EQUIPMENT**

A DIVISION OF ANI

**FORMERLY KNOWN AS COMENG (ANI)**

UNIT 1/ 332-350 EDGAR ST,  
(PRIVATE BAG 28)  
BANKSTOWN NSW 2200

PH-02 772 4166  
FX-02 774 3619

ALSO AT

15 FELSPAR ST, WELSHPOOL WA 6106  
FRANKSTON RD, DANDENONG VIC 3175

BRADKEN are involved in heavy engineering & rolling stock and claim to have experience in supplying defence forces.

SEE ALSO ANI RUWOLT

**BRITISH AEROSPACE AUSTRALIA LTD.**

A WHOLLY OWNED SUBSIDIARY OF BRITISH AEROSPACE (UK)

HEAD OFFICE 14 PARK WAY  
TECHNOLOGY PARK, THE LEVELS SA  
PO BOX 180  
SALISBURY SA 5108

PH-08 343 8211  
FX-08 349 6629

ALSO AT

19 NAWEENA RD, REGENCY PARK SA 5010  
5TH FL ANZ CNT, 12 MOORE ST, CANBERRA ACT 2600  
BAEA SIMCOM, HMAS ALBATROSS, NOWRA NSW 2541

BAEA, although wholly owned by the British parent company, makes much of the fact that it is autonomous and that its board of directors are Australian citizens, thereby accepting full responsibility for its activities, which include design, development, manufacture & support in the following areas: avionics;

command & control systems; e w devices; communications equipment; military fire control systems; space-borne sub-systems and components; space-related ground systems; aircraft structural sub components; sensors and associated equipment. BAEA is a long established component of the Australian defence & aerospace industry. Recent exports include components to the USA.

### BRI SECURITY P/L

53 KING WILLIAM ST  
KENT TOWN SA 5067

PH-08 363 2799  
FX-08 363 308

MANAGING DIRECTOR: K HANCOCK

BRI SECURITY, with representatives in all mainland capitals provide services to the defence industry such as: security risk analysis; pre employment screening; computer security; anti-bugging security and multi disciplinary security guard operations.

### BRUCE BIRNIE P/L

339 NEPEAN HWY  
MT MARTHA VIC 3934

PH-059 74 2944  
FX-059 74 2866

DIRECTORS: N BIRNIE & L PRITCHARD

REPRESENTS: THE UNITED SCIENTIFIC GROUP (UK)  
armoured fighting vehicles, cupolas, turrets, turret gearboxes, periscopes, mountings, weapon sights, laser range finders, day & night vision systems, telescopes, gun control equipment, fire control equipment, fighting vehicle fire control computers, image intensifier instruments, avf crew compartments, binoculars, infrared sights, electro optical systems and other military-aeronautical equipment

HALEY AND WELLER LTD (UK)  
(military pyrotechnics)

KATSUMA OPTICAL CO LTD (JAPAN)  
(military binoculars)

H S WALTHER GMBH (GERMANY)  
(canoes & spares for commandos & SAS)

### BRUCK TEXTILES P/L

A DIVISION OF TEXTILE INDUSTRIES (AUST) P/L

159 VICTORIA PDE  
COLLINGWOOD VIC 3066

PH-03 417 7177  
FX-03 419 7420

MANAGING DIRECTOR: R PAYN

ALSO AT 7TH FL, 14 WATERLOO ST, SURRY HILLS NSW 2010

BRUCK TEXTILES produce fabrics for combat clothing, parade clothing, work wear and specialist end uses eg: ballistic protection & flame retardants.

SEE ALSO TEXTILE INDUSTRIES (AUST) P/L

### BRYBURN TRADING COMPANY LTD

10 VICTORIA ST  
BEACONSFIELD NSW 2015

PH-02 698 9613

CONTACT: B BURNS

BRYBURN trading exported various machine gun parts & accessories to the USA in the 89/90 financial year.

### BTR AEROSPACE DIVISION OF BTR (AUST) LTD FORMERLY DUNLOP AEROSPACE

838 MOUNTAIN HWY  
(PO BOX 41)  
BAYSWATER VIC 3153

PH-03 721 6111  
FX 03 720 4996

MANAGER: D GLENK

BTR AEROSPACE are involved in the design & manufacture of many aerospace components such as aircraft wheels; brakes & brake control systems. They also produce a variety of pneumatic valves, rings, seals etc, to Australian & international military standards.

## BURNESS CORLETT AUSTRALIA P/L

2 GROSVENOR PLC  
BROOKVALE NSW 2100

PH 02 938 6199  
FX 02 938 2139

BURNESS CORLETT provided drawing specification services for logistical support vessel to the Philippines.

## CATERPILLAR OF AUSTRALIA LTD

1 SHARPS RD  
TULLAMARINE VIC 3043

PH-03 339 9333  
FX-03 338 0314

MANAGER OF DEFENCE ACCOUNTS: D PURDIE

CATERPILLAR produce earth moving, construction, mining & materials handling equipment, diesel & natural gas engines and gas turbines. Their defence products subsidiary adapts their products to military specifications. CATERPILLAR, according to their advertising, operate in more than 140 countries.

## C3 P/L

WHOLLY OWNED SUBSIDIARY OF AWA DEFENCE INDUSTRIES

UNIT 6/112-118 TALAVERA RD  
NORTH RYDE NSW 2113

PH-02 805 3888  
FX-02 805 3805

GENERAL MANAGER: R MAGEE

ALSO AT

133-135 NEWCASTLE ST, FYSHWICK ACT 2609  
ENDEAVOUR HSE, TECHNOLOGY PARK, THE LEVELS SA 5095

C3 stands for command, control & communications and that is just what they do: providing 'state-of-the-art' software technology for sensor & weapons interfaces, simulation & training systems, police systems and electronic warfare.

SEE AWA DEFENCE INDUSTRIES

## CEA TECHNOLOGIES P/L

CEA RESEARCH & DEVELOPMENT P/L, CEA MECHANICAL & MARINE P/L

4/133 GLADSTONE ST  
FYSHWICK ACT 2609

PH-06 281 7932  
FX-06 280 4836

MANAGER: D GAUL

ALSO AT

SUITE 6/35 RANELAGH DRV MT ELIZA VIC 3930

CEA TECHNOLOGIES provide defence consultancy, computer training and project management; electronic, mechanical and marine engineering; electronic warfare & radar systems.

## CENTURY 21 TECHNOLOGIES

9 REDGRAVE PLC  
CHAPMAN ACT 2611

PH-06 288 6311  
FX-06 288 0830

GENERAL MANAGER: A TAYLOR

CENTURY 21 are consultants for the defence industry in the areas of offsets & aviation.

REPRESENT LITTON SYSTEMS INC.  
(guidance & control div)  
ALKAN (FRANCE)  
(aeronautical equipment)  
AMA ENGINEERING (UK)  
(Isbc & gse)

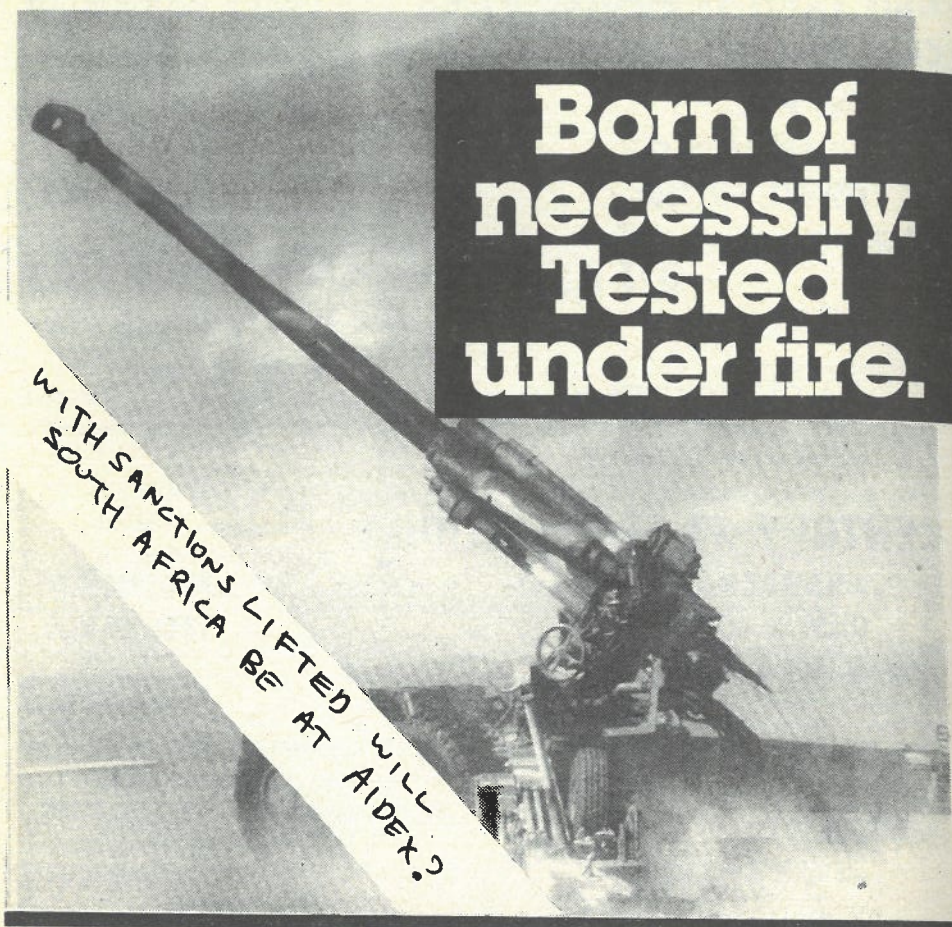
## CHANNEL CRAFT

BUNDALLA RD  
MARGATE TAS 7153

PH 002 67 2260  
FX 002 67 2730

MANAGING DIRECTOR: G RUMNEY

CHANNEL CRAFT produce high performance fibreglass boats which they were displaying at AIDEX89



**Born of  
necessity.  
Tested  
under fire.**

WITH SANCTIONS LIFTED WILL SOUTH AFRICA BE AT AIDEX?



When buying arms, the least obvious source may present the best strategic opportunity. Armscor's weapons systems aren't for show. They're tested and proven in battle in some of Africa's toughest terrain. Take Top Gun. The G5155 mm towed gun howitzer. Extended range of up to 40 km with base-bleed projectiles. Plus just 2 minutes from standstill to fire command. Gain the proven advantage without fanfare. Think Armscor. You can't buy better, neither can we.

**COMBAT-PROVEN RELIABILITY**

Telex Pretoria (South Africa) 3-20217.



**ARMSCOR**

**RM&HA CHRISTIE & ASSOCIATES**

PO BOX 147  
KIPPAX ACT 2615

PH -06 258 8939  
FX-06 259 2531

REPRESENTS: WESTINGHOUSE ELECTRONIC SYSTEMS INTERNATIONAL  
MARKETING (WESIM)- AIR DEFENCE & SURVEILLANCE RADAR; C3  
SYSTEMS; MISSILE LAUNCHING & HANDLING SYSTEMS AND  
COMMUNICATIONS SYSTEMS.

SEE ALSO EMAIL WESTINGHOUSE  
WESTINGHOUSE

**CHRISTIE ELECTRIC (AUST)**

33 HIGGINBOTHAM RD  
GLADESVILLE NSW

PH - 02 807 1444  
FX-02 809 7136

MANAGER: W CAIRNS

CHRISTIE ELECTRIC'S products include: various torches, searchlights and NiCad batteries.

REPRESENTS: AQS (USA), BEAMCO (USA), BURTON CABLES (USA), CARLISLE & FINCH (USA) CHRISTIE AUTOMOTIVE (USA), CHRISTIE ELECTRIC CORP (USA), F J W INDUSTRIES (USA), HOUCHIN (UK), LENOX INSTRUMENTS (USA), POWER PRODUCTS (USA), SAFT BATTERIES (USA) SCHOTT (USA), STREAMLIGHT INC (USA), VARTABATTERIES (GERMANY)

**CIG WELD**

A DIVISION OF COMMONWEALTH INDUSTRIAL GASES LTD

85 CHIEFLY DRV  
PRESTON VIC 3072

PH-03 487 1234  
FX-03 480 6525

ALSO AT

3/165 ROOKWOOD RD YAGOONA NSW 2199

CIG WELD advertise their electric & gas welding electrodes & equipment, a variety of other equipment and gas & electric welding consumables in military journals.



## COCKATOO DOCKYARD P/L

A DIVISION OF AUSTRALIAN NATIONAL INDUSTRIES

COCKATOO ISLAND  
SYDNEY NSW 2000

PH-02 818 920  
FX-02 818 1289

CHIEF EXECUTIVE: J JEREMY

COCKATOO DOCKYARD are a defence register assessed supplier, providing general engineering services for many industries including mining & steel production. COCKATOO DOCKYARD have been the principal maintainers and refitters of RAN submarine & surface ships.

SEE AUSTRALIAN NATIONAL INDUSTRIES

## COLAN PRODUCTS

2 DONALD ST  
GUILDFORD NSW 2161

PH-02 682 2777  
FX-02 681 1851

GENERAL MANAGER: P LOVE

COLAN PRODUCTS advertise as an Australian owned firm specialising in engineered textiles to international standard specifications (including British & US military). The company is a defence register assessed supplier and has been audited by the Australian Dept of Defence. COLAN produce a range of goods including: ballistic fabrics; resin reinforcements; asbestos replacement and a variety of fabrics & tapes.

## COLLINS AVIONICS

SEE ROCKWELL ELECTRONICS INTERNATIONAL AUSTRALIA P/L

## COLONIAL FIREARMS

SEE ALSO COMMERCIAL MARKETING

This company exported SMLE rifles to New Zealand in the 89/90 financial year (reported in Hansard) but all attempts to find this company have been futile up to the time of publication—Any information on Colonial Firearms would be appreciated

## COMBAT CLOTHING AUSTRALIA

48 NIND ST  
(PO BOX 1352)  
SOUTHPORT QLD 4215

PH-075 31 3316  
FX-075 37 4889

ALSO AT

24 RAWLINS ST SOUTHPORT QLD 4125

COMBAT CLOTHING produce a range of soft & hard body armour. Styles available include: military & police; military & police plus collar; military fragmentation vest and a chic little number called Police & Security.

## COMMONWEALTH BANK TRAVELSTRENGTH LTD

GROUP AND INCENTIVE TRAVEL

3RD FLOOR  
38-44 YORK ST  
SYDNEY NSW 2000

PH-02 225 4185  
FX-02 225 4292

MANAGER: SYLVIA WHEATLEY

Commonwealth Bank Travelstrength is the official travel agent for AIDEX91.

## COMMERCIAL MARKETING

SEE ALSO COLONIAL FIREARMS

This company exported Semi-automatic 'pistols, shot magazines & target barrel' to USA in the 89/90 financial year (reported in Hansard) but all attempts to find proof of the existence of this company have been futile up to the time of publication—Any Information on COMMERCIAL MARKETING would be appreciated.

## COMPRI TECHNIC

84 SUSSEX ST  
MAYLANDS WA 6051

PH-09 271 4626  
FX-09 271 2816

COMPRI TECHNIC market the HT Blaster, they describe it as a "revolutionary cleaning method especially designed for all types of hose & tube where

contamination and particle build up becomes a problem" COMPRI TECHNIC were one of the many companies looking to expand their market by exhibiting at AIDEX89.

**COMPUCAT P/L**  
169 GLADSTONE ST  
FYSHWICK ACT 2609

PH-06 280 5966  
FX-06 280 7254

ENGINEERING MANAGER: K DURICK

COMPUCAT offer systems analysis using computer aided software engineering tools; system engineering design & installation for military (including military communications).

### COMPUTER POWER GROUP P/L

CNR GEILS & DENISON ST  
WEST DEAKIN ACT 2600

PH-06 283 6777  
FX-06 285 1298

SOFTWARE SERVICES SECTOR, MANAGER, DEFENCE OPERATIONS: R HORE

COMPUTER POWER GROUP operate a general computer consultancy which includes development of systems for tactical & strategic C3I (command, control, communications plus intelligence), artificial intelligence and embedded systems.

### COMPUTER SCIENCES OF AUSTRALIA P/L (CSA)

WHOLLY OWNED BY A M P

460 PACIFIC HWY  
ST LEONARDS NSW 2065

PH-02 901 1111  
FX-02 901 1444

GENERAL MANAGER: P REHN, MANAGER, SYSTEMS ENG DIV: A JOHNSON

CSA this year won their second consecutive Department of Defence 'Australian Industry Quality & Achievement Award'. This year's award was in recognition of CSA'S "role adaptable weapons system", a \$12M project associated with the RAN's Seahawk Helicopters. CSA designed and implemented the Aircraft Weapons Systems Support System as part of this project.

CSA's Systems Engineering Division is listed in the AIDEX89 catalogue as "Australia's dominant defence systems and software engineering organisation", With extensive experience in C3, anti submarine warfare, avionics & weapons systems, simulators, trainers & test equipment.

The company also has wide experience as a sub-contractor to major Australian & overseas companies

### CONTROL DATA CORPORATION

CONTROL DATA CORPORATION is a nuclear weapons contractor to the USA Department of Defence

SEE MIDEN DEFENCE SYSTEMS P/L AND FRED A HADDOCK & ASSOCIATES

### CRITEC P/L

TECHNOPARK  
DOWSINGS POINT TAS 7010

PH-002 73 0066  
FX-002 73 0399

GENERAL MANAGER: DR S GUMLEY

CRITEC is a wholly Australian owned designer & manufacturer of transient protection and powerconditioning equipment, specialising in protection technologies for communication & control facilities and for operational equipment. CRITEC attempted to increase their trade by displaying themselves at AIDEX89

### CYANAMID AUSTRALIA P/L

A SUBSIDIARY OF AMERICAN CYANAMID COMPANY

5 GIBBONS RD  
BAULKHAM HILLS NSW 2153

PH-02 624 9333  
FX-02 672- 5555

ALSO

AT 5 HALSTEAD ST, HURSTVILLE NSW 2220  
7 BUSINESS PARK DRV, NOTTING HILL VIC 3168  
FOR OTHER LOCATIONS RING 008 22 4484 (TOLL FREE)

Cyanamid light sticks are used for all night time military manoeuvres  
Divisions include Lederle Labs, Davis & Geck, Storz Instrument Co, Acufex  
Microsurgical

### DAEWOO CORPORATION (KOREA)

**AUSTRALIAN OFFICE**

LEVEL 4 60 MILLER ST  
NORTH SYDNEY NSW 2060

PH-02 957 5599  
FX-02 925 0458

DAEWOO CORPORATION are one of the largest manufacturing & trading

groups in Korea. producing weapons, munitions, ships, vehicles, electronics and a wide range of consumer electronics & computers. DAEWOO are seeking joint manufacturing ventures in Australia.

### DALE BUDD & ASSOCIATES P/L

CAPITA CENTRE  
MARCUS CLARKE ST  
(PO BOX E340, QUEEN VICTORIA TERRACE)  
CANBERRA ACT 2600

PH-06 257 2544  
FX-06 257 6514

Representing LITTON SYSTEMS INC. AERO PRODUCTS DIVISION whose products include: navigation reference, altitude heading global positioning & air data inertial reference systems.

### DATAMATIC P/L

16 SUAKIN ST  
PYMBLE NSW 2073

PH-02 449 8133

DATAMATIC offer a complete range of electronic security systems for communication and computer applications. With advertising slogans such as 'Don't let your defences down', DATAMATIC have a specific military market.

### M B & K J DAVIDSON P/L

17 ROBERNA ST  
MOORABBIN VIC 3189

PH-03 555 7277  
FX-03 555 7956

MANAGING DIRECTOR: K DAVIDSON

ALSO AT

10 HELP ST, CHATSWOOD NSW 2067

M B & K J Davidson have a range of specialised products to military specifications including: sensors, keyboards, electronic devices and DRUCK equipment currently in use by various Australian Defence Force facilities.

### DAWSON INDUSTRIES LTD

1ST FLOOR, 484 ALBANY HWY  
VICTORIA PARK WA 6100

PH-09 470 4000  
FX-09 362 2905

DAWSON INDUSTRIES is involved in many facets of the defence industry providing design, engineering, manufacture & project management services and products such as 'Marine Assault Access System'. DAWSON INDUSTRIES have carried out several contracts for the Australian Army & Navy as well as for visiting naval vessels.

### DBE AUSTRALIA

SUITE 1F, 169 NEWCASTLE ST  
FYSHWICK ACT 2609

PH-06 239 1543  
FX-06 280 7757

MANAGER: J NASH

DBE AUSTRALIA is a national distributor of RICOH facsimile machines & photocopiers. The company were at AIDEX89, looking to increase their defence industry sales.

### DELTA HYDRAULICS

171-199 STONEY RISE RD  
DEVONPORT TAS 7310

PH-004 24 5711  
FX-004 24 6983

MANAGING DIRECTOR: J WHITE

DELTA HYDRAULICS provide precision machining, repair & overhaul and heat treatment & services and market a range of telescopic & commercial cylinders, powerpacks & defence support equipment.

DESIKO are the people that bring you the mostest & bestest defence show in the entire Asia-Pacific region.

The proud organisers of AIDEX89, the inaugural show, DESIKO are putting together a return performance, AIDEX91, which they've promised will be bigger and better (just like the weapons they'll be flogging). It seems that AIDEX is set to become a biennial event unless you do something to stop it!

## DESIKO P/L THE AUSTRALIAN TRADE FAIR COMPANY

27 FITSIMMONS AVE, LANE COVE WEST  
(PO BOX 290)  
LANE COVE NSW 2066

PH-02 428 4311  
FX-02 427 6600

MANAGING DIRECTOR: BOB DAY, DIRECTOR: ANNE DAY, PUBL: PIPPA DAY

## DETROIT ENGINE & TURBINE COMPANY

A DIVISION OF BOWATER TUTT INDUSTRIES

CNR CAVAN & GRAND JUNCTION RDS, GEPPS CROSS SA  
(PO BOX 188)  
BLAIR ATHOLL SA 5084

PH-08 260 2299  
FX-08 349 4142

MANAGER: T SANDO  
ALSO AT

78 RIVERSIDE RD CHIPPING NORTON NSW 2170  
147 ARCHERFIELD RD RICHLANDS QLD 4077

DETROIT ENGINE is Australia's largest manufacturer of power generation systems. The company provides service & maintenance for all of the engines it distributes in Australia which include those of PERKINS, EMD, WARTSILA and JENBACHER as well as ALLISON & KAWASAKI HEAVY INDUSTRY gas turbines.

REPRESENT DELTA ELECTRONICS  
(microprocessor based control & monitoring equipment)

## DOMAIN DEFENCE SYSTEMS (AUST) P/L

55 NANCY PLC  
(PO BOX 80)  
GALSTON NSW 2159

PH-02 653 2414  
FX-02 653 2414

MANAGING DIRECTOR: J MARSH

REPRESENT: M L AVIATION LTD.  
(bomb racks & missile launchers)  
I R DECOY SYSTEMS  
(pyrotechnics)  
DOWTY DOMAIN MAGNETICS  
(D G Ranges & magnetometers)

## D N T EUROPHANE P/L

110 LEWIS RD  
WANTIRNA SOUTH VIC 3152

PH-03 887 0177  
FX-03 887 1784

D N T EUROPHANE are a major supplier to the Defence Dept. They produce airfield, runway, helipad & obstruction lighting & visual landing systems. D N T EUROPHANE also design, maintain & support these products.

## DUNLOP AEROSPACE

SEE BTR AEROSPACE

## DY-4 SYSTEMS AUSTRALIA LTD

185 SHEPHERDS DR, CHERRYBROOK  
(PO BOX 657)  
PENNANT HILLS NSW 2120

PH-02 484 6314  
FX-02 875 1665

MANAGER: MARK PEZARO

DY-4 SYSTEMS specialise in the design, manufacture & integration of ruggedised field computer hardware and air cooled cards & chassis for commercial & military applications.

## ECAPAC P/L

3 EVANS ST, GRIFFITH ACT  
(PO BOX 4040)  
KINGSTON ACT 2604

PH-06 295 3246  
FX-06 295 3258

MANAGING DIRECTOR: D OWENS

REPRESENTS: SOCIETE ECA  
(remotely operated subsea vehicles (ROV's)), hydrographic & oceanographic systems, offshore engineering & components manufacturing systems)  
NEREIDES  
(offshore oceanographic & meteorological data acquisition systems including Wadibuoy)  
MECABOLIER  
(winches and instruments)  
CGA ALCATEL  
(marine autopilot systems)

## EDWARD KELLER (AUSTRALIA) LTD

14 WHITE SIDE RD  
CLAYTON SOUTH VIC 3169

PH-03 543 7022  
FX-03 543 5230

REPRESENTS: OERLIKON-BUHRLE AG (SWITZERLAND)  
CONTRAVES AG (SWITZERLAND)

EDWARD KELLER'S products include 20 mm and 30 mm naval guns; mortar fuses; field & naval anti aircraft guns; vehicle & aircraft armaments; rockets & rocket launchers.

## EGLO ENGINEERING

SEE TRANSFIELD

## ELBIT INDUSTRIES (ISRAEL)

ELBIT have been included as a separate listing where many companies that are represented in Australia have not due to their particularly abhorrent advertising in an Australian defence journal. These advertisements, bearing the slogan "BATTLE BRED", boast that their expertise is based 'on experience - not theory' and that they have provided 'avionics that have accumulated more actual combat hours than any other systems in the western world.' Terms like 'POINT TARGET HITS' and 'LIGHT ATTACK' warn that ELBIT is not at all interested in 'defence.

SEE MARTIN INTERNATIONAL

## ELECTRO OPTICS SYSTEMS LTD

55A MONARO ST  
QUEANBEYAN NSW 2620

PH-06 299 2470  
FX-06 299 2477

ELECTRO OPTICS, a world leader in non-military laser-ranging hardware have this year moved into two military projects in a big way. In partnership with the AUSTRALIAN SURVEYING AND LAND INFORMATION GROUP of the DEPT OF ADMINISTRATIVE SERVICES, ELECTRO OPTICS is being provided with funding under the NATIONAL PROCUREMENT DEVELOPMENT PROGRAM to develop, trial & demonstrate an upgrade kit for the Orral laser ranging system, which is lauded as having export potential over the next four years of more than \$20m. ELECTRO OPTICS have also won multi million dollar export contracts for themulti-purpose Universal Gun Sights (MUGS).

## EMAIL WESTINGHOUSE P/L

A PART OF THE EMAIL WESTINGHOUSE GROUP OF COMPANIES

### AIR HANDLING DIVISION

30 AUBURN RD  
REGENTS PARK NSW 2143

PH-02 644 2641  
FX-02 644 7445

EMAIL WESTINGHOUSE AIR HANDLING DIVISION have the Manufacturing licence of FLANDERS FILTERS (USA) and provide air filters & testing of clean rooms for Military & Commercial Applications

SEE ALSO R M & H A CHRISTIE  
WESTINGHOUSE

### ERACOM P/L

HEAD OFFICE  
28 GREG ST  
BURLEIGH HEADS QLD 4220

PH-075 93 4911  
FX-075 93 4388

NATIONAL SALES: 165 WALKER ST NORTH SYDNEY NSW 2060  
GOVT SALES OFFICE: 161 LONDON CIRC CANBERRA AC T2600

ERACOM are an electronic security company whose military exports in the 89/90 financial year included encryptors, encryption boards & cards and electronic security modules.

**MEMTEC**  
APPLIED DEFENCE  
TECHNOLOGY

"Head 'em up & move 'em out"  
to the MEMTEC showers



**ERICSSON P/L**

A PART OF THE ERICSSON GROUP

**ERICSSON DEFENCE INDUSTRIES**

194 BELL ST

PH-03 480 4888

PRESTON VIC 3072

FX-03 487 5804

MANAGING DIRECTOR: IVAN TRAYLING

ALSO AT

61 RIGGALL ST, BROADMEADOWS VIC 3047

112 TALAVERA RD, NORTH RYDE NSW 2113

97 NORTHBOURNE AVE, TURNER ACT 2601

21 HUDSON RD, ALBION WA 4010

29 NORTH TCE ADELAIDE SA 5000

54 BRISBANE ST, LAUNCESTON TAS 7250

88 HAVELOCK ST, WEST PERTH WA 6005

THE ERICSSON GROUP OF COMPANIES, headquartered in Sweden, operates globally and is one of the world's leading electronics & communications companies. ERICSSON in Australia have capabilities in electronics production, radar, display systems, electro optics, laser, infra red, EW, encryption, terminal equipment, microwave and ATC communications.

REPRESENT: ERICSSON RADAR ELECTRONICS AB  
(naval & air radars, SDS80 airborne computing system, Erijammer electronic warfare training system)

**EVANS DEAKIN INDUSTRIES LTD**

12 BOUNDARY ST, SOUTH BRISBANE

(PO BOX 1421)

PH-07 840 2222

BRISBANE QLD 4001

FX-07 846 2250

CHAIRMAN: R PAUL

EVANS provide engineering services to the Defence industry with experience in pressure vessels, specialised vehicles, ship repair and non destructive testing.

**FAIREY AUSTRALASIA**

NOW FORM A PART OF AWA DEFENCE INDUSTRIES

**FERRANTI COMPUTER SYSTEMS**

A DIVISION OF FERRANTI INTERNATIONAL

HEAD OFFICE

2A MAVIS ST

PH-02 708 6655

REVESBY

FX-02 708 6440

GENERAL MANAGER: J DAVIS

SALES DEPT: 99 NORTHBOURNE AVE, TURNER ACT 2601

FERRANTI INTERNATIONAL are involved in just about all forms of military computing. In Australia FERRANTI'S products and services offered to the military include combat systems management & integration, secure data links, secure data links, C3 systems and land based test sites.

**FMC AUSTRALIA LTD**

A DIVISION OF FMC CORPORATION (USA)

50 HOWLEYS RD

PH-03 544 2311

NOTTING HILL VIC 3168

FX-03 544 2311

ALSO AT

139 SANDGATE RD, ALBION QLD 4010

FMC has been a major supplier of guns, missile systems and M113 armoured personnel carriers to the Australian military for over twenty years. Missile launchers on the RAN's FFG's are made by FMC.

The Mk41 VLS has been selected as the baseline missile system for the ANZAC frigates. FMC International are a major nuclear weapons contractor to the US military. In collaboration with A Goninan on armoured vehicle projects.

SEE A GONINAN &amp; Co LTD

**FRED A HADDOCK & ASSOCIATES P/L**

13 RYDER RDPH-08 261 1927

MANNINGHAM SA 5086

FX-08 266 3515

DIRECTOR: F HADDOCK

REPRESENTS: COMPUTING DEVICES COMPANY (CANADA)  
(ASW acoustic processing systems; tactical fire control for ASW acoustic processing systems; tactical fire control for direct & indirect weapons; unmanned air vehicle ground electronics)

**T**his is an appropriate place to give an example of the links between weapons companies. Fred A Haddock represents Computing Devices Company of Canada, a division of Control Data Canada Ltd, which is itself a division of Control Data USA, who own Midden Corporation in Australia, whose Defence division, Midden Defence Systems Pty Ltd., represent Control Data. Control Data, a major contractor of nuclear and conventional weapons systems, has interests in various other weapons companies such as Elbit of Israel who are represented in Australia by a seemingly totally unrelated company, Martin International.

**FULLER FIREARMS**

DUNNING AVE  
ROSEBERRY NSW 2018

MANAGER: G ABBOTT

PH-02 662 2333  
FX-02 662 2608

FULLER FIREARMS name say it all. In the 89/90 financial year they made a sizeable export of Browning shotguns to Taiwan

**FUTURETECH P/L**

SUITE 1A, 22 GIFFNOCK AVE  
NORTH RYDE NSW 2113

DIRECTOR: P O'BRIEN

PH-02 805 0388  
FX-02 888 9275

FUTURETECH is an Australian information management company, specialising in integrated logistic support services. FUTURETECH'S MCLAREN PUBLICATIONS subsidiary is a technical writing illustrating & publishing company which services the Defence industry, as does another FUTURETECH subsidiary, DIGITAL VIDEO INTERACTIVE TECHNOLOGY SYSTEMS. In seeking an increased level of military work, FUTURETECH exhibits not only at AIDEX but also at similar shows such as PRIDE90 (Pacific Regional International Defence Exposition 1990) in Manila November 1990.

**GARRETT AEROSPACE P/L**

UNIT B, 10-20 MCEVOY ST  
WATERLOO NSW 2017

MANAGER: R FENTON

PH-02 699 1244  
FX-02 319 7121

GARRETT AEROSPACE provide advisory, rental and backup & replacement parts for GARRETT turbo engines and environmental control units.

**GENERAL ELECTRIC COMPANY (USA)  
AEROSPACE DIVISION**

SUITE 8, STEPHEN HOUSE  
32 THESIGER COURT WEST DEAKIN  
CANBERRA ACT 2600

PH-06 281 0565  
FX-06 285 1673

GENERAL ELECTRIC are the second largest nuclear weapons contractor in the world. The AEROSPACE DIVISION in Australia has capabilities and products including: air defence & space surveillance radar systems; over the horizon radar; electro-optical surveillance & tracking systems; undersea warfare defence electronics systems; airborne surveillance radar systems; aircraft radar delivery radar system; electronic countermeasures equipment; infra-red & electro-optic sensor systems; aerospace data management systems; aircraft flight control & weapon control systems; instrument systems; armament systems; surface weapons systems; aircraft electrical systems; face pumped lasers; training systems & simulators; computer generated image simulator visual displays; radar land mass digital simulators; ship control systems; engine & power generation control systems; hydro-mechanical steering mechanisms; stabilized turret drive systems; communication satellites; Earth observation satellites & ground stations; direct broadcast satellites; spacecraft subsystems; military data systems and automated test equipment & checkout systems.

GENERAL ELECTRIC ARE ALSO REPRESENTED BY LUCAS AEROSPACE

**GEC AUSTRALIA LTD**

A WHOLLY OWNED SUBSIDIARY OF THE GENERAL ELECTRIC COMPANY (UK)

**GEC MARCONI DEFENCE (A DIV OF GEC AUST)**373 HORSLEY RD  
MILPERRA NSW 2214PH-02 772 7444  
FX-02 792 1360

GEC MARCONI DEFENCE offers design, development & manufacture of electronic & communication products and manufacturing support facilities including design, management, installation & maintenance for overseas equipment & systems.

REPRESENTS: MARCONI COMPANY (UK)

(military computers; simulators; underwater systems &amp; weapons; C3 systems; test equipment and electronic warfare systems)

CANADIAN MARCONI COMPANY

(telex exchanges; OMEGA airborne navigation systems; instrument displays and doppler velocity systems.)

**GEC AVIONICS (GEC MARCONI DEFENCE-CANBERRA)**6-8 CAMPION ST  
DEAKIN ACT 2600PH-06 285 1648  
FX-06 285 1743REPRESENTS: GEC AVIONICS LTD(UK)  
LEAR ASTRONICS INC (US)

GEC AVIONICS provide products and capabilities of both these companies, which include: design, development, production and installation support for military & civil avionic systems; battlefield radars; powerplant systems; lasers and security systems.

**GENERAL DYNAMICS CORPORATION (USA)**

are the 3rd largest nuclear weapons contractor in the world.

SEE P C MARKETING

**GNB BATTERIES**

SEE PACIFIC DUNLOP

**GODFREY HOWDEN P/L**

A MEMBER OF THE HOWDEN GROUP OF COMPANIES

**GODFREY ENGINEERING**MATHEWS AVE  
AIRPORT WEST VIC 3042PH-03 338 3666  
FX-03 338 6136

MANAGING DIRECTOR: D PEARCE

GODFREY HOWDEN design, manufacture & overhaul aircraft ground support equipment, airborne components (including electrical & fuel systems). They also supply, service & overhaul 'ROOTS' type & 'regenerative' type air blowers, exhausters & gas boosters. GODFREY HOWDEN also act as representatives for many companies in the HOWDEN GROUP and market their products in Australia. These products include: aerial stores lift trucks; temperature simulators; all terrain undercarriages; securing, traversing & arming systems for shipborne helicopters; early failure detection products and ammunition handling systems.

REPRESENTS: MAFO HOWDEN BV(NETHERLANDS)  
THE ROTTERDAM DOCKYARD COMPANY(NETHERLANDS)  
AIRCRAFT POROUS MEDIA EUROPE LTD(UK)  
AIRSCREW HOWDEN LTD(UK)  
MACTAGGART SCOTT LTD(UK)  
THERMAL CONTROL LTD(UK)  
HOWDEN AIR CONTROL LTD(UK)  
HOWDEN WADE LTD(UK)  
45 AIRCRAFT POROUS MEDIA(UK)  
BFM TRANSPORT DYNAMICS CORPORATION(UK)  
HOWDEN COLONEY COMPANY INC(UK)  
DEVTEC CORPORATION(UK)  
PEABODY HOLMES LTD(UK)  
DRESSER INDUSTRIES(USA)  
E G & G ROTTEN(USA)  
NOAH HOWDEN INC  
STANDARD MANUFACTURING COMPANY INC  
PNEU DEVICES INC  
WESTERN DESIGN INC  
TEDECO (TECHNICAL DEVELOPMENT COMPANY)



**A GONINAN & CO LTD**

BROADMEADOW RD  
(PO BOX 21)  
BROADMEADOW NSW 2292

PH-049 69 9299  
FX-049 69 9250

GENERAL MANAGER: J FITZGERALD, MANAGER ORDNANCE DIVISION: A SMITH

ALSO AT

15 WOOD ST, BASSENDEAN WA 6054  
WA DIVISION 239 PLANET ST, WELSHPOOL WA 6106  
LANSDOWNE ENG, LANSDOWNE ST, TAREE NSW 2430

GONINAN are involved in manufacturing & engineering including manufacture of machinery under licence. Although GONINAN are better known as the manufacturer of trains such as the Tangarra for the Public Transport System, They are also involved in collaborative ventures with FMC on armoured infantry projects.

SEE ALSO FMC CORPORATION

**GROUP SCHNEIDER**

60 PITT ST  
SYDNEY NSW 2000

PH-02 252 3744  
FX-02 252 4514

GENERAL MANAGER: B. LANCELLE

GROUP SCHNEIDER are involved with the production of energy generation equipment and electrical propulsion. Their products have applications for submarines and surface vessels and the energy generation equipment is used for a variety of engines, command auxiliaries and equipment. GROUP SCHNEIDER are an extremely large French company and they operate throughout the Pacific region as well as the rest of the world.

**G.S.A. RANDATA**

A DIVISION OF G.S.A. INDUSTRIES

3 HALL ST  
HAWTHORN VIC 3122

PH-03 822 7858  
FX-03 822 9980

RANDATA produce encryptors, encryption equipment and telephone scramblers etc. They export to many countries.

**GUNRUNNA TRADING**

65 HAMMOND ST  
DANDENONG VIC 3175

PH-03 706 5936

GUNRUNNA's name speaks for itself. In the 89-90 financial year this company exported rifle barrels to the USA.

**HADLAND PHOTONICS P/L**

19A HAMPSHIRE RD  
GLEN WAVERLEY VIC 3150

PH-03 560 2366  
FX-03 560 8402

CHAIRMAN/MANAGING DIRECTOR: H BIRAM

HADLAND PHOTONICS market electro-optical systems; components; photometers; high speed & other photographic/video instrumentation; and video image processing. They advertise their products & services to the military industry.

**HATZ AUSTRALIA P/L**

A DIVISION OF HATZ(GERMANY)

391 PARK RD  
REGENTS PARK NSW 2143

PH-02 743 8288

HATZ engines are designed & built in Germany. Over 70% of diesel engines exported to Australia from Germany are HATZ and all current production diesels are to NATO standards. Over 50 000 HATZ diesel engines are currently in use by US, NATO & other armies, navies & air forces. Applications include: generator sets; fuel transfer pumps; cable winches; water treatment plants and missile launchers.

**HAWKER DE HAVILLAND LTD**

361 MILPERRA RD (PO BOX 30)  
BANKSTOWN NSW 2200

PH-02 772 8111  
FX-02 771 2632

CHAIRMAN: D HOARE, MANAGING DIRECTOR: J HATTERSLEY

**ALSO AT**

304 LORIMER ST, PORT MELBOURNE VIC 3207  
BLDG 43, DRCS CONTRACTORS AREA, SALISBURY SA 5108  
PERTH INTERNATIONAL AIRPORT, PERTH WA 6105  
149-157 OLD COMMON RD, ROWES BAY QLD 4818  
INDUSTRY HOUSE, NATIONAL CIRCUIT, BARTON ACT 2600

HDH, founded in Victoria in 1927 became a publicly listed company on the Australian Associated Stock Exchanges in 1984, approximately 30% of shares are held by Australians. HAWKER SIDDELEY GROUP PLC of the UK is the majority shareholder. Since the sixties HDH Sydney, Victoria & Perth have taken on international manufacturing programs as sub contractors to major overseas aerospace companies, in some instances as sole source, now over 50% of HDH's total business is in exports. Exporting to more than 20 nations, HDH employees work on joint projects or in liaison offices in North America, Europe & Asia. One of HDH's major engineering programs has been the manufacture of the General Electric F404 engine, in addition to this being used in RAAF FA18's HDH exports F404 components to the US for General Electric and the US Navy. HDH Salisbury specialises in the design & development of airborne weapons systems.

HDH is taking a leading role in the study of an international Spaceport on Cape York in North Queensland, which is planned to include a major military industry manufacturing park and has also teamed with Israel Aircraft Industries (who employ, on military projects, approx 7.5% of the total Israeli workforce) to modify Boeing 707 aircraft for the RAAF, they are working in the new hangar at Tullamarine which was purpose built for the project.

To list all of this company's war mongering activities would involve another book in itself (as is the case for many of the companies listed). HDH have specialist divisions working in space technology and all areas of aircraft & helicopter engineering. HDH design, manufacture, service, overhaul & / or assemble for many notable companies including: GENERAL ELECTRIC, ROLLS ROYCE, AVCO LYCOMING, PRATT & WHITNEY, ALLISON, SNECMA, BOEING, AIRBUS, SIKORSKY, MCDONNELL DOUGLAS and WESTLAND. Noteworthy uses to which HDH products have been put this year (1991) include the massacre of civilian populations in Burma (HDH repaired the engines used by the Counterinsurgency Wing of the BURMA AIR FORCE) and on Bougainville (HDH modified the helicopters which were used).

**HAWKER PACIFIC P/L**

4 HARLEY ST  
CONDELL PARK NSW 2200

PH-02 708 8555  
FX-02 708 1480

ALSO AT: BRISBANE AIRPORT, QLD 4007  
CAIRNS AIRPORT, QLD 4870  
JANDOKAT AIRPORT, WA 6164  
MOORABIN AIRPORT, VIC 3194

ACIL HOUSE, 103 NORTHBOURNE AVE, ACT 2601

HAWKER PACIFIC is the regional sales representative for PILATUS BRITTEN NORMAN (PBN), in People's Republic of China, Singapore, Indonesia, Thailand and Sri Lanka. They also represent RAYTHEON. RAYTHEON are another of the large nuclear weapons contractors.

SEE RAYTHEON.

**HEWLETT-PACKARD AUSTRALIA LTD**

A DIVISION OF HEWLETT-PACKARD (USA)

31-41 JOSEPH ST  
BLACKBURN VIC 3130

PH-03 895 2895

**ALSO AT**

THYNE ST, FERNHILL PARK, BRUCE ACT 2617  
17-23 TALAVERA RD NORTH RYDE NSW 2113  
10-14 PAYNE RD, THE GAP QLD 4061  
153 GREENHILL RD, PARKSIDE SA 5063  
HASSLER RD & GOULD ST, OSBORNE PARK WA 6017

HEWLETT PACKARD market all manner of measuring & test equipment for electronics engineering science & medicine. They also distribute computers for business, industry, scientific & defence applications.

**HENDERSON TROUT**

215 ADELAIDE ST  
(GPO BOX 55)  
BRISBANE QLD 4001

PH-07 228 5811  
FX-07 229 7566

**T**he large Brisbane law firm, Henderson Trout is expanding their business into the highly specialised area of air and space legal work. The company, with 30 partners, 80 professionals and 160 support staff, now has a senior partner specialising in such work. It has appropriate specialist contract arrangements with organisations in Canberra, Melbourne, Sydney, the United States and elsewhere. The Cape York Space Port project has highlighted a growing need and opportunity area for legal expertise. This applies not only to Cape York but to many major defence and aerospace works. If things go wrong, perhaps five or ten years into a project, the skill and forethought with which the original contracts were made is absolutely crucial  
— APDR, June '91

**H.I. FRASER P/L**

18 CARTER RD  
BROOKVALE NSW 2100

PH-02 939 6222  
FX-02 938 6981

MANAGING DIRECTOR: M. KIRKBY

H.I. FRASER specialise in gas and liquid control components. Thirty years of continuous service to the R.A.N. and contracted to the AUSTRALIAN SUBMARINE CORPORATION.

REPRESENT: HIFCO  
HALE HAMILTON (UK)  
CLAM  
AIR DRY CORPORATION OF AMERICA  
MARROTTA (USA)  
LINDAPTER (UK)  
ALCO HP (UK)

**HONEYWELL LTD**

A DIVISION OF HONEYWELL (USA)  
**AEROSPACE & DEFENCE**

863 BOURKE ST  
WATERLOO NSW 2017

PH-02 699 0155  
FX-02 690 9326

DIVISION DIRECTOR: K. SOGHOMONIAN

ALSO AT

150-151 GREENHILL RD, PARKSIDE SA 5063  
231 RIVERSIDE DR, WEST END QLD 4101  
20 GLADSTONE ST, Fyshwick ACT 2609  
679 VICTORIA ST, ABBOTSFORD VIC 3067  
5-7 KITCHENER WAY, VICTORIA PARK WA 6100

HONEYWELL are involved in all areas of military electronic production including: torpedo systems; sonar systems; underwater vehicles; surveillance equipment; flight control systems; cockpit systems; military aviation systems; "Hot Torp" torpedos; military communication systems; rugged tactical computers; signal processors and marine automation & control.

**HIGH ENERGY BATTERIES (INDIA)**

SEE AGORDIA

**HILL EQUIPMENT & REFRIGERATION P/L**

27 BURBRIDGE RD  
MILE END SA 5031

PH-08 352 2300

HILL EQUIPMENT design, manufacture and supply refrigeration & ice makers for Collins Class submarines. The company is contracted to AUSTRALIAN SUBMARINE CORPORATION

**I.B.M. AUSTRALIA LTD**

A DIVISION OF I.B.M. (USA)

COONARA AVE  
WEST PENNANT HILLS NSW 2120

PH-02 634 9111  
FX-02 680 4285

ALSO AT

GREENHILL RD, ADELAIDE SA 5000

EDWARD ST, BRISBANE QLD 4000  
 HAY ST, PERTH WA 6000  
 STURT ST, MELBOURNE VIC 3000

I.B.M. are one of the largest nuclear weapons contractors in the world. I.B.M. Australia supply electronic components of all descriptions and computer hardware to the military industry. In the 1989/90 financial year I.B.M. made export sales to Hong Kong, South Korea and Thailand.

### **I.C.A.L. LTD**

SEE TRANSFIELD

### **I.C.I. AUSTRALIA**

PART OWNED SUBSIDIARY OF I.C.I. LTD (UK)

16-20 BEAUCHAMP RD  
 MATRIVILLE NSW 2036

PH-02 695 2111  
 FX-02 695 2847

I.C.I. produce an enormous range of products including adhesives, engineering materials, agriculture and industrial chemicals, paints, pigments, plastic polymers, polyurethanes and explosives. In the 89/90 financial year they exported powergel to Indonesia and Singapore.

### **I.C.L. AUSTRALIA P/L**

A SUBSIDIARY OF I.C.L. UK

14 RODBOROUGH RD  
 FRENCHS FOREST NSW 2086

PH-02 452 9900  
 FX-02 451 0744

ALSO AT

446 ELIZABETH ST, NTH HOBART TAS 7000  
 214 NORTHBOURNE, CANBERRA ACT 2600  
 300 GLENOSMOND RD, FULLARTON SA 5063  
 1162 HAY ST, PERTH WA 6000  
 80 LEICHHARDT ST, SPRING HILL QLD 4000

I.C.L. AUSTRALIA, in order to further their sales of computer based weapons control systems to the military have gained accreditation for their systems from the US Department of Defence and its equivalent in the UK. These same systems were last year commissioned by the R.A.N. and were used in the Gulf War.

### **INDEPENDENT INSTRUMENTS (AVIATION)P/L**

1ST AVENUE, MOORABBIN AIRPORT  
 MENTONE VIC 3194

PH-03 580 1444  
 FX-03 587 3820

INDEPENDENT INSTRUMENTS produce Auto-pilot systems, all types of aircraft instrumentation (mechanical, electrical, avionic and gyroscopic). Specialists in helicopter and fixed wing aircraft and are contractors to the Department of Defence.

### **INFORMATION ELECTRONICS LTD**

A WHOLLY OWNED COMPANY OF RIMPAC LTD

47 NEWCASTLE ST  
 FYSHWICK ACT 2609

PH-06 280 5810  
 FX-06 280 6181

CHAIRMAN: M. VARDANEGA

INFORMATION ELECTRONICS specialise in Tempest systems, this is a computerised radio communication system which they manufacture in Australia and currently in use by the Department of Defence. The company has also carried out consultancies ranging from integrated logistic support to aspects of over-the-horizon-radar. Other services to the defence department and other government agencies include: logistic support analysis, building and facilities requirements, special tools and test equipment, packaging, transport and storage and technical data and publications.

### **INTERSCAN INTERNATIONAL LTD**

4/40 BRODIE ST  
 RYDALMERE NSW 2116

PH-02 684 4733  
 FX-02 684 2565

MANAGING DIRECTOR: B. ATMORE

INTERSCAN INTERNATIONAL specialise in design and manufacture of air navigation systems and microwave equipment. The company's products include microwave landing systems, tactical microwave landing systems, portable microwave receivers, tactical air navigation antenna systems, VHF Omnidirectional range, distance measuring equipment, VHF/UHF direction finding systems and large vertical aperture secondary surveillance radar antenna systems. Research and development work is being carried out under contract to domestic and overseas clients.

## INVERTECH AUSTRALIA P/L

12 PALLET ST  
COBURG VIC 3058

PH-03 350 3033  
FX-03 350 5108

MARKETING MANAGER: P. BITTISNICH

INVERTECH AUSTRALIA design and manufacture rectifiers, static inverters, UPS and telecommunications systems and power supply systems to the military industry.

## ISIS

13 GILRUTH ST  
HACKETT ACT 2602

PH-06 247 5070

CONTACT: P. MARSHALL

ISIS provide individual equipment for the field soldier, webbing systems, rucksacks, combat boots, knives, kayaks and a variety of small water craft.

## JAMES NORTH AUSTRALIA P/L

HEAD OFFICE  
2/1 RIVER ROAD WEST  
PARRAMATTA NSW 2150

PH-02 635 1800  
FX-02 891 6557

ALSO AT:

2/23 KENSAL ST, MOOROOKA QLD 4105  
3 EXPORT CT, MT WAVERLEY VIC 3149  
2/24 RUDLOCK RD, MORLEY WA 6062  
779 PORT RD, WOODVILLE SA 5011

JAMES NORTH are a 50% subsidiary of SIEBE PLC (UK) and BHP. Their Australia made products include eye, face, head, hearing and respiratory protective devices and life jackets/buoyancy vests. Products imported from their sister companies including SIEBE GORMAN (WALES), JAMES NORTH (UK) and SIEBE NORTH (USA) are materials/components assembled in Australia to produce specialised aircraft, self-contained breathing apparatus, gas masks and activated charcoal for NBC (Nuclear Biological and Chemical) clothing.

## JAVAC P/L

54 RUSHDALE ST  
KNOXFIELD VIC 3180

PH-03 763 7633  
FX-03 763 2756

MANAGING DIRECTOR: R.F. DAVIES, MARKETING DIRECTOR: A.F. DAVIES

JAVAC manufacture rotary vacuum pumps capable of vacuum to 0.0005 torr to military and industrial clients.

## J.R.A. AUSTRALIA LTD LANDROVER AUSTRALIA

BONDI PLAZA TOWERS  
BONDI JUNCTION NSW 2022

PH-02 387 4233  
FX-02 387 3798

ALSO AT

HEATHCOTE RD, MOOREBANK NSW 2170  
BRUNSWICK ST, FORTITUDE VALLEY QLD 4006  
164 FULLARTON RD, DULWICH SA 5065  
52 GLENVALE RD, MULGRAVE VIC 3170  
6 GLASSFORD RD, KEWDALE WA 6105

J.R.A. produce military vehicles in both left & right hand drive versions. A comprehensive range of optional equipment and body types enable the vehicles to be used for a variety of military purposes. J.R.A. also offer operator & service training with NATO codified support literature.

## KARCHER P/L (GERMANY)

158 BROWNS RD  
NOBLE PARK VIC 3174

PH-03 795 4422  
FX-03 701 0001

SPECIAL PRODUCTS MANAGER: P. JANSSEN

ALSO AT:

71 PRINCE WILLIAM DR, SEVEN HILLS NSW 2147

KARCHER with outlets all over Australia supplying domestic electrical cleaning products also supply cleaning equipment and modular field kitchens to the military. This equipment has been designed closely with the NATO forces and includes N.B.C. (Nuclear, Biological and Chemical) Decontamination Equipment.

## KINHILL ENGINEERS P/L

200 EAST TERRACE  
ADELAIDE SA 5000  
ALSO AT:

PH-08 223 7011  
FX-08 232 0163

437 ST KILDA RD, MELBOURNE VIC 3000  
47 BURSWOOD RD, VICTORIA PARK WA 6100  
645 HARRIS ST, ULTIMO NSW 2007  
21 BARRY DR, TURNER ACT 2601

KINHILL is partly owned by NATIONAL MUTUAL LIFE ASSURANCE who hold 9.9% of the shares. They are one of the biggest project management consultancies in Australia and have been involved in numerous military projects both consulting and related construction. In order to further their defence work they have appointed Air Vice Marshall, Hans Roser as their Manager Defence Group.

## KIRBY ENGINEERING

A DIVISION OF JAMES N. KIRBY P/L

53 DOWN ST  
COLLINGWOOD VIC 3066

PH-03 543 3599  
FX-03 419 0810

ALSO AT

286 HORSLEY DRV, MILPERRA NSW 2214  
223 SOUTH RD, RIDLEYTON SA 5008  
8-12 WALKER ST, WOOLLONGABBA QLD 4102

KIRBY are a heavy engineering company involved in military contract manufacture. In the 89/90 financial year, KIRBY exported boattails to the USA.

## KOCKUMS PACIFIC P/L

251 HUTT ST  
ADELAIDE SA 5000

PH 08 232 2550  
FX 08 224 0267

FULLY OWNED SUBSIDIARY OF KOCKUMS MARINE A.B.

KOCKUMS are involved in the AUSTRALIAN SUBMARINE CORPORATION's projects. They provide engineering procurement and production expertise. KOCKUMS also train Australian engineers in Sweden.

## KRUPP ATLAS ELECTRONIK (AUST)

UNIT 6, 39 HERBERT ST  
ST LEONARDS NSW 2065  
GENERAL MANAGER: J HAZELL

PH-02 437 4577  
FX-02 439 7576

ALSO AT

887 WELLINGTON ST, ROWVILLE VIC 3178  
96 EWING ST, WELSHPOOL WA 6106  
40 BROOKES ST, BOWEN HILLS QLD 4066

KRUPP design and develop software and hardware, marine and simulation electronic systems. They also manufacture by subcontract feasibility, definition and design studies and have expertise in army electronic systems.

## LAND ROVER AUSTRALIA

A DIVISION OF J.R.A. LTD

SEE J.R.A.

## LASER METHODS P/L

137 BAKERS RD  
COBURG VIC 3058

PH-03 350 4844  
FX-03 350 3108

LASER METHODS are involved in laser welding and laser cutting of all the petrol chemical plastics. They also do light press and general engineering work.

## LEARJET

SEE PACIFIC AVIATION

## LEIGH-MARDON P/L

SUBSIDIARY OF AMATIL LTD

15-31 KEYS RD  
MOORABBIN VIC 3189

PH-03 556 8111  
FX-03 553 1740

## LEIGH-MARDON DEFENCE SYSTEMS GROUP

This division of the LEIGH-MARDON group of companies specialise in defence

engineering including design and management support and all aspects of logistic support. LEIGH-MARDON consortium claim to be one of the largest Australian based multi-discipline defence service suppliers.

### LIONEL SINGER CORPORATION P/L

328 HIGH ST  
CHATSWOOD NSW 2067

PH-02 415 0505  
FX-02 417 8637

MANAGING DIRECTOR: L. SINGER

Subsidiaries: BEST KNOWLEDGE SYSTEMS P/L, COMPUTER ADDITIONS P/L, NETWORK SOLUTIONS AUSTRALIA P/L, UNIFY AUSTRALIA P/L, VMARK PACIFIC P/L, X TECHNOLOGY AUSTRALIA P/L.

LIONEL SINGER provides leading edge technology including software development, artificial intelligence and systems integration.

REPRESENTING 3COM, TRW, WESTERN DIGITAL, HUGHES, FTP, SPARTACUS, PROTEON AND ALLIED TELESIS.

### LOGICA P/L

157 WALKER ST  
NORTH SYDNEY NSW 2060

PH-02 957 1700  
FX-02 922 7466

MANAGER GOVERNMENT SYSTEMS: J. GREEN

LOGICA offer consulting in communications operational analysis and processing. Their other services include a broad range of computer based communications and control systems.

### LOGISTICS P/L

13 BUNKER CRES  
(PO BOX 848)  
GLEN WAVERLEY VIC 3150

PH-03 803 1386  
FX-03 803 8206

LOGISTICS specialists in PC based tools for military & aerospace purposes. Their list of customers reads like a Who's Who of the International Arms Dealer's Club, nearly every corporation listed in this book is there.

### LOPAC P/L

PO BOX 4040  
KINGSTON ACT 2604

PH-06 295 3292  
FX-06 295 3258

MANAGING DIRECTOR: D. OWENS

LOPAC are a maritime and defence consultancy. Their services include offsets and ILS aspects.

REPRESENTING: AERITALIA SALPA  
(Italian Aerospace Consortium)  
BREMER VULKAN AG  
(West German naval and communication ship design & building)  
F.M.C. CORPORATION  
(US major naval weapons systems)

SEE F.M.C.

### LUCAS AEROSPACE

84 EPSOM RD  
ZETLAND NSW 2017

PH-02 313 7777  
FX-02 313 7676

GENERAL MANAGER: J. HARPER

ALSO AT:

PO BOX 104, CLOVERDALE WA 6105

LUCAS operate a fully equipped base for repair and overhaul of fuel, electrical/electric generation, hydraulic and pneumatic systems and electronic controls. They also provide full product support facilities for LUCAS AEROSPACE worldwide. LUCAS have been involved in offset arrangements for the FA18 program. They also provide a range of general aircraft components and spares.

REPRESENT: LUCAS AEROSPACE WORLDWIDE, LUCAS AIR EQUIPMENT (formally Bronzavia Air Equipment), Lucas Western, Lucas Aerospace Power Equipment Corporation (formally Lear Siegler P.E.C.), LUCAS AVITRON, CHANDLER EVANS, GE, BENDIX ENCD.

SEE GE.

## LUKE AIR CONDITIONING

2D COCHRANE ST  
MITCHAM VIC 3132

PH-03 871 0666  
FX-03 871 0611

GENERAL MANAGER: J.M. SHEWAN

LUKE provide NATO approved products specifically designed for naval defence and defence related projects. Products include: heat exchangers, air conditioning equipment, fans and control systems.

## LYNWOOD PACIFIC P/L

UNIT 12, 39 HERBERT ST  
ST LEONARDS NSW 2065

PH-02 439 5433  
FX-02 439 5863

ALSO AT:  
BRANCHES:

10 THESIGER CT, DEAKIN ACT 2600  
AUCKLAND, NZ  
HONG KONG

LYNWOOD provide intelligent work stations, command control systems, facsimiles and TEMPEST terminals.

## McDONNELL DOUGLAS LTD

### McDONNELL DOUGLAS CORPORATION USA

66 MARCUS CLARKE ST  
CANBERRA ACT 2601

PH-06 247 0899  
FX-06 249 1185

DIRECTOR BUSINESS DEVELOPMENT: A. PATTEN

McDONNELL DOUGLAS are probably the biggest military contractors in the world. They are usually number 1 on lists of Pentagon contracts, they are famous for, amongst other things, Tomahawk missiles, Apache helicopters, Hornet, Eagle and Harrier aircraft. The Australian office acts as the South Pacific marketing branch for McDONNELL DOUGLAS CORP., McDONNELL DOUGLAS are also represented in Australia by MASLING ROTOR WING P/L. One of McDONNELL DOUGLAS' current projects in our region is the researching of the Indonesian market for their helicopters.

SEE MASLING ROTOR WING

## McINTYRE MARINE SERVICES P/L

10/30 ROSEBERRY ST  
BALGOWLAH NSW 2093

PH-02 907 9422  
FX-02 907 9121

McINTYRE MARINE products include a range of marine accessories e.g. distress beacons, desalinators.

REPRESENTING: RECOVERY ENGINEERING (USA), INFORMATION ELECTRONIC SECURITE MARITIME (FRANCE)

## MACK TRUCKS AUSTRALIA P/L

616 BOUNDARY RD  
RICHLANDS QLD 4077

PH-07 375 3333  
FX-07 375 4936

Mack Trucks with have outlets around the country, provide Mack vehicles specially designed for military purposes.

## MACKAY SILENTRUBA PRODUCTS P/L

260-284 CHESTERVILLE RD  
MOORABBIN VIC 3189

PH-03 555 6500  
FX-03 553 1052

INDUSTRIAL SALES MANAGER: G. WILLIAMSON

MACKAY have a NATO registered laboratory from which they design, develop and produce a range of rubber and fluoroelastomers, brushes, vibration mounts and automotive and agricultural products.

## MARTIN INTERNATIONAL

SUITE 2, 86 GILES ST  
KINGSTON ACT 2604

PH-06 295 3888  
FX-06 295 3458

MANAGING PARTNER: P. MARTIN

REPRESENTING: TEXAS INSTRUMENTS INC. (USA), ACHIDATEX LTD (ISRAEL), ANALYTICAL INSTRUMENTS (UK), ARGO SYSTEMS (USA), CR INTERNATIONAL INC. (USA), CRYPTTEK INC. (USA), DELPHIN SYSTEMS (USA), DYNAMIC SCIENCES INC. (USA), ELECTRONIC SUPPORT SYSTEMS INC. (USA), FERRETEC INC. (USA), FILTRONIC (UK), I.D.M. ELECTRONICS LTD (UK), LORRAL TERRACOM INC. (USA), LAIRD (ANGLESEY) LTD (UK), M.S.G. (USA), NAPCO INTERNATIONAL INC. (USA), PATRICK ENGINEERING LTD (UK), PRECISION ECHO INC. (USA), SOFTWARE INC. (USA), STOCKER AND YALES INC. (USA), T.C.I. INC. (USA), WHITTAKER ELECTRONIC SYSTEMS INC. (USA), MOSEROTH INC. (ISRAEL), L.E.V. ADVANCED DETECTION SYSTEMS LTD (ISRAEL), ELISRA LTD (ISRAEL), ELBIT LTD (ISRAEL).

What can you say about Martin International? They don't actually produce anything.



## MARTIN MARIETTA OVERSEAS CORPORATION (USA)

120 PACIFIC RD  
PALM BEACH NSW 2108

PH-02 974 5026  
FX-02 919 5318

*AUSTRALIAN CONSULTANT: AIR COMMODORE, GORDON STEEGE DSO, DFC, RAAF, (RET.)*

MARTIN MARIETTA is engaged in design, manufacture and integration of systems and products for defence, space, electronics and communication. They are also involved in energy and materials management, aerospace technology is their speciality. This company was number 8 on the US nuclear weapons contracts list for 1988.

## MASLING ROTOR WING P/L

PO BOX 511  
COOTAMUNDRA NSW 2590

PH-069 423 155  
FX-069 423 250

MASLING are a service facility for helicopters and offer product support for MCDONALD DOUGLAS Helicopter Company and SCHWEIZER AIRCRAFT CORPORATION both of whom they represent. SCHWEIZER AIRCRAFT are represented by MASLING in Australia, Papua New Guinea, Solomon Islands, New Caledonia, Malaysia, Philippines, Burma and Sri Lanka. MCDONNELL DOUGLAS are currently researching Indonesia as a market for their products.

*SEE MCDONALD DOUGLAS*

## MAYFIELD

A DIVISION OF AUST-AMEC P/L

43-69 STURT ST  
ADELAIDE SA 5000

PH-08 238 5000  
FX-08 238 5001

*GENERAL MANAGER: R. COLLINS*

MAYFIELD are specialists in motor repairs, energy management, pumps, switchboards and instrument manufacture.

REPRESENT TEXAS INSTRUMENTS (USA), SPRECHER & SCHUH, N.E.C.  
AND WESTINGHOUSE PRODUCT DIVISIONS.

*SEE AUST-AMEC*

## MAXITHERM BOILERS P/L

329 HORSLEY RD  
MILPERRA NSW 2214

PH-02 792 1011  
FX-02 771 1655

*SALES DIRECTOR: F. PHILLIPS*

MAXITHERM operate in all states and provide combustion equipment, industrial autoclaves and heavy engineering products.

## MEMTEC LTD

LOCKED MAIL BAG NO. 1  
WINDSOR NSW 2756

PH-045 776 800  
FX-045 776 804

*GROUP MANAGER, DEFENCE AND OFFSETS: R. BUTLER*

MEMTEC are quite well respected around the world as an 'environmentally friendly' company as they produce water purification systems. They also produce recyclable troop showering systems, mobile water purification units, field laundry recycle units, desalination systems (mobile) and oil/water separation units, specially developed for military applications. We believe that these products were used in the Gulf War to support land troops. We also believe they are not being used to help alleviate trachoma in communities in central Australia, nor are they providing water for the millions who are dying around the world for lack of it.

## MERCEDES-BENZ (AUSTRALIA) P/L

12-26 DUNLOP RD  
MULGRAVE VIC 3170

PH-03 566 9266  
FX-03 561 7088

MERCEDES BENZ (AUSTRALIA) offer support services and assembly to military and paramilitary vehicles which they supply to defence and security forces in Australia, New Zealand, and the South East Asian region.

REPRESENT: DAIMLER-BENZ AG

## MICHAEL RICKARD-BELL & ASSOCIATES

84 MT ELIZA WAY  
MT ELIZA VIC 3930

PH-03 787 7444  
FX-03 787 8929

MICHAEL RICKARD-BELL & ASSOCIATES are architects of fast patrol boats and commercial vessels.

## MIDEN DEFENCE SYSTEMS

16 NATIONAL CIRCUIT  
BARTON ACT 2600

PH-06 271 2222  
FX-06 271 2217

NATIONAL MANAGER: G. RHODES

MIDEN have branches in all capital cities and supply all types of strategic and commercial/scientific computers (militarised and ruggedised) to US and NATO specifications.

REPRESENT CONTROL DATA CORPORATION.

SEE CONTROL DATA  
FRED HADDOCK & ASSOC

## MOONRAKER AUSTRALIA P/L

TASMANIAN TECHNOPARK  
DOWSING POINT TAS 7010

PH-002 731 533  
FX-002 731 749

MANAGING DIRECTOR: C. EDWARDS

MOONRAKER specialise in manufacture of high performance antennae systems and produce equipment marketed to international defence forces standards. They have full security rating, their systems are for sea, land based and mobile applications. They claim their major uses include Australian and International defence forces, government services, parliamentary forces and police and sight Saudi Arabia, Sarawak and Antarctica as proof of the diversity of their market.

## MOTOROLA ELECTRONICS AUSTRALIA

A SUBSIDIARY OF MOTOROLA (USA)

127-129 WOLLONGONG ST  
FISHWICK ACT 2609

PH-06 280 4111  
FX-06 280 6448

REGIONAL SALES MANAGER: F. RINALDI

MOTOROLA's services and products include mobile handheld data terminal equipment, fixed, mobile and portable radio communication systems, microwave systems, optical links, tactical radios, electronic fuse systems, drone command and control systems, airborne radar and tracking and command transponder systems.

## M.T.U. AUSTRALIA

A SUBSIDIARY OF M.T.U. AEROSPACE (WEST GERMANY)

11-13 GARLING RD  
KINGS PARK NSW 2148

PH-02 671 3555  
FX-02 831 1902

ALSO AT:

54 JEPHSON ST, TOOWONG QLD 4066  
11 MEWS RD, FREMANTLE WA 6160

M.T.U. produce diesel engines for military, industrial and mining power generation, overhaul services also offered.

## MULTI-DRIVE TECHNOLOGY P/L

1 BAXTER RD  
NTH GEELONG VIC 3215

PH-052 721 402  
FX-052 721 396

MANAGING DIRECTOR: I. CLARKSON

MULTI-DRIVE convert Toyota landcruisers to 6 wheel drive and were displaying these vehicles at ADEX 89.

## MUNTERS AUSTRALIA P/L

A SUBSIDIARY OF A.B. CARL MUNTERS (SWEDEN)

1064 CENTRE RD  
OAKLEIGH STH VIC 3167

PH-03 563 7055  
FX-03 584 8444

MANAGING DIRECTOR: H. HAGBERG

MUNTERS manufacture dehumidifiers. The applications for these products are corrosion protection for small arms, ammunition, main battle tanks, vehicles, radio and radar equipment etc., whilst in storage and/or on ships.

## MRAD P/L

INNOVATION HSE WEST  
TECHNOLOGY PARK SA 5095

PH-08 260 8222  
FX-08 349 4742

MRAD was established to commercialise the radar technology designed by the microwave radar division of the Surveillance Research Laboratory (SRL) of the D.S.T.O.

SEE D.S.T.O. IN GOVERNMENT SECTION.

**NEC AUSTRALIA P/L**

11TH FLR, HEINE HOUSE  
11 QUEENS RD  
MELBOURNE VIC 3000

MANAGING DIRECTOR: A HARADA  
ALSO AT

PH-03 267 8455  
FX-03 267 7774

99 NICHOLSON ST, ST LEONARDS NSW 2065  
62 GREENHILL RD, ADELAIDE SA 5000  
527 GREGORY TCE, BOWEN HILLS QLD 4006  
TRAEGER CRT, CANBERRA ACT 2601  
41 ADELAIDE TCE, PERTH WA 6000

NEC operate field support services in Australia, Papua New Guinea, New Zealand, Pacific Islands, South East Asia, Middle East and South America. These support services are offered in relation to a range of their products including transportable earth stations, systems design engineering, PCM cable/optical fibre systems, optical telephone links, satellite/microwave systems, space payloads, solar power systems and shelters.

**NATIONAL VALVE & ENGINEERING CO. P/L**

31A-31B MAUTON RD  
HUNTINGDALE VIC 3167

GENERAL MANAGER: D. LEIGH

PH-03 544 3099  
FX-03 544 6013

NATIONAL VALVE & ENGINEERING CO., provide ground support-refuelling equipment designed to meet the requirements of the military. They were another of the exhibitors at AIDEX'89 and in 1990 they were displaying their products at the government backed arms bazaar in the Philippines (PRIDE 90).

**NEWTECH INNOVATIONS**

5 GOULBURN ST  
ST IVES NSW 2075

NEWTECH are involved in the manufacture of machining equipment. They advertise in military magazines. Their ad is particularly offensive as it shows a woman operating one of their machines (are they trying to capture the feminist market?).

PH-02 449 2269  
FX-02 449 7510

**NICOLL-COOKE ASSOCIATES P/L**

SUITE 16, COLLINS PL  
MELBOURNE VIC 3000

NICOLL-COOKE are involved in consultancy.

PH-03 654 1733  
FX-03 654 1349

REPRESENT AERMACCHI SPA,  
C.A.E. INDUSTRIES LTD,  
C.A.E. LINK CORP.,  
E.G. & G. ASTROPHYSICS RESEARCH CORP.,  
LOCKHEED CORP.,  
HUGHES AIRCRAFT CO.

SEE C.A.E. LINK

**NORMALAIR GARRETT MANUFACTURING P/L**

45 KING ST  
AIRPORT WEST VIC 3042

PH-03 330 1511  
FX-03 338 8282

NORMALAIR GARRETT are manufacturers of aircraft parts. In the 89/90 financial year they have exports to the US forces in the Philippines, Canada and the USA. These exports included items for the FA18's.

**NORWELLAN TEXTILES P/L**

NORWELLAN HOUSE, 30-44 CHETWYND ST  
WEST MELBOURNE VIC 3003

PH-03 329 5588  
FX-03 329 8627

NORWELLAN produce Kevlar fabrics for the production of soft body armour and ballistic shield panels for ships and vehicles.

**OFFICE FRANCAISE D'EXPORTATION DE  
MATERIEL AERONAUTIQUE**

5TH FLR, 10 RUDD ST  
CANBERRA ACT 2600

PH-06 248 6866  
FX-06 247 2239

MANAGER, DEFENCE & SYSTEMS PROJECTS: N. WAINWRIGHT

REPRESENT THE FRENCH AERONAUTICAL  
AND AEROSPACE INDUSTRY IN AUSTRALIA.

**OLIN AUSTRALIA LTD****WINCHESTER DIVISION**

HAYS RD  
GEELONG VIC 3220

PH-052 482 000  
FX-052 482 409

MANAGER, DEFENCE SALES: W. PILKINGTON

OLIN manufacture 12 gauge shotgun cartridges and a variety of ammunition. In the 89/90 financial year OLIN exported to many different countries including: USA, UK, France, Japan, Papua New Guinea, Thailand, South Korea, Tonga, Guam and New Caledonia.

REPRESENTING OLIN CORPORATION (USA)

**PACIFIC AVIATION LTD**

AIRPORT AVE,  
(LOCKED BAG 41)  
BANKSTOWN NSW 2200

PH-02 708 9200  
FX-02 707 1386

DEFENCE CONTRACTS: K. HOWARD

PACIFIC AVIATION are affiliated with BRITISH AEROSPACE, CESSNA, LEARJET, PIPER, MBB, AUGUSTA, AEROSPATIALE, GARRETT, AVIOJET, BENDIX/KING, HONEYWELL, ALLIED-SIGNAL, TELEDINE CONTINENTAL, TEXTRON LYCOMING, GOODYEAR, CHAMPION, DINOL, AIRBORNE and DORNE & MARGOLIN. PACIFIC AVIATION distribute and service for the companies represented and are involved in modification, design, repair and overhaul of aerospace helicopter and aircraft components and systems. Defence contracting is a significant part of their operations.

**PACIFIC DUNLOP BATTERIES****NOW KNOWN AS G.N.B. BATTERIES**

A PART OF DUNLOP INDUSTRIES - PACIFIC DUNLOP GROUP

55 BRYANT ST,  
PADSTOW NSW 2211  
(PO BOX 141)  
BANKSTOWN NSW 2200

PH02 774 0500  
FX02 774 2150

GENERAL MANAGER: B. THORPE

ALSO AT

2 BEAUFORT ST, PRESTON VIC 3072  
395 TOORONGA RD, EAST HAWTHORN VIC 3122  
6 PRECISION ST, SALISBURY QLD 4107  
351 TORRENS RD, CROYDON PARK SA 5008

PACIFIC DUNLOP produce batteries for diesel/electric submarines as well as a variety of power systems. They are major suppliers to the US Defence Department.

**PAINS-WESSEX AUSTRALIA P/L**

A SUBSIDIARY OF PAINS-WESSEX SCHERMULY LTD (UK) - CHEMRIG GROUP

PRIVATE BAG 22  
CAMBWERWELL VIC 3124

PH-03 813 3377  
FX-03 813 2993

MANAGING DIRECTOR: C. TEGNER

PAINS-WESSEX produce a variety of pyrotechnics including for use of law enforcement and military. The Australian factory produces flares, ignitors, smoke signals and training products.

**PENTARCH P/L**

398 HIGH ST  
PRAHAN VIC 3181

PH-03 525 1633  
FX-03 519 617

DIRECTOR: P. BELLEW

REPRESENT: ARMATUREN GESELLSCHAFT MBH (AUSTRIA), BREAK FREE CORP. (USA), BRUNSWICK CORP. (USA), CADILLAC GAGE TEXTRON (USA), A. EICHORN GMBH & CO. KG (GERMANY), F.X.C. INTERNATIONAL (USA), GEORGE BLAIR PLC (UK), HIRTENBERGER PATRONENFABRIK AG (AUSTRIA), KOLLMORGEN CORP. (USA), M.L. MARKETING CO. (USA), NORICUM GMBH (AUSTRIA), PHOTONIC OPTICHE GERATE GMBH (AUSTRIA), PROTECTIVE APPAREL CORP. OF AMERICA (USA), SHERWOOD INTERNATIONAL EXPORT INC. (USA), STEYR-DAIMLER-PUCH AG (AUSTRIA), THE BETA COMPANY (USA)

AND UNICORN INTERNATIONAL PTE LTD (SINGAPORE).

Products offered on behalf of these companies by PENTARCH include: small arms, parachute systems, ballistic vests, night vision devices, bayonets, mortars, field artillery and all types of munitions.

## PERRY ENGINEERING

A DIVISION OF BORAL JOHNS PERRY LTD

RAILWAY TCE,  
MILE END SA 5031  
(GPO BOX 1838)  
ADELAIDE SA 5001

PH 08 352 1777  
FX 08 234 1896

GENERAL MANAGER: B. KAVANAGH

PERRY ENGINEERING are involved in project management for mining, mineral processing, power generation and oil and gas industries, and if this is not enough they supply the military with a variety of special purpose vehicles, oily water separators and do ship repair work both in Australia and overseas to naval quality requirements.

## PDS GROUP

DIVISIONS: MCIWRAITH MCEACHARN OPERATIONS LTD

PHILIP DIVING SERVICES

36 WATTLE RD  
BROOKVALE NSW 2100

PH-02 938 1733  
FX-02 938 5302

ALSO AT: 9 CHAUCER PARK, CANTERBURY RD, KILSYTH VIC 3137  
9 YEATES RD, KWINANA WA 6167

The PDS GROUP are involved in research and development, management and consultancy services involved with many aspects of the defence industry. PDS is the sole Australian distributor of the complete range of the BAUER (Germany) products.

PDS also provide precision engineering services.

## PHILIPS DEFENCE SYSTEMS P/L

A DIVISION OF PHILIPS INDUSTRIES HOLDINGS LTD

2 GREENHILLS AVE  
MOOREBANK NSW 2170

PH-02 600 5500  
FX-02 601 5449

DIVISIONAL MANAGER: B. FRIZELL

PHILIPS produce naval combat systems, depot maintenance programs, military airborne radar, radar display consols and digital control systems. Their components division are involved in the production of microelectronic components for military applications.

REPRESENT: HOLLANDSE SIGNAALAPPARATEN BV (NETHERLANDS), MEL (UK), TRT (FRANCE), MAGNAVOX (USA), GRASEBY (UK).

## PHILIPS COMPONENTS P/L

11 WALTHAM ST  
ARTARMON NSW 2064

PH-02 439 3322  
FX-02 438 5253

NATIONAL SALES MANAGER: R. ARTHUR

ALSO AT:

23 LAKESIDE DR, BURWOOD EAST VIC 3151  
113 TAPLEYS HILL RD, HENDON SA 5014  
299 MONTAGUE ST, WEST END QLD 4101  
1 FREDERICK ST, BELMONT WA 6104

## PLESSEY UK

PLESSEY is a name that many readers of this book might look for so we have included the heading. PLESSEY no longer exist in their own right. It has been divided between SEIMENS and G.E.C.

## PORT KEMBLA MARINE P/L

84 RAILWAY ST  
CORRIMAL NSW 2518

PH-042 842 132  
FX-042 261 775

MANAGING DIRECTOR: COL. J. POTTS

This company does all manner of marketing and support engineering, equipment installation and equipment overhaul for the military.

## PRICE WATERHOUSE

PRICE WATERHOUSE CENTRE, 19 MOORE ST  
CANBERRA CITY ACT 2601

PH-06 276 0222  
FX-06 257 5900

PARTNER-IN-CHARGE: W. LAURIE

MANAGER DEFENCE INDUSTRY SERVICES: R. FINLAY

PRICE WATERHOUSE provide specialist services to local and overseas defence firms involving monitoring contract opportunities, tender preparation, offsets planning and implementation.

**QANTAS AIRLINES LTD**

QANTAS JET BASE, SYDNEY AIRPORT  
MASCOT NSW 2020

PH-02 691 7189  
FX-02 236 3277

ALSO AT

INTERNATIONAL SQUARE, SYDNEY NSW 2000  
14 KING WILLIAM ST, ADELAIDE SA 500  
241 ADELAIDE ST, BRISBANE QLD 4000  
13 SPENCE ST, CAIRNS QLD 4870  
197 LONDON CCT, CANBERRA ACT 2601  
19 THE MALL, DARWIN NT 0800  
77 ELIZABETH ST, HOBART TAS 7000  
114 WILLIAM ST, MELBOURNE VIC 3000  
77 ST GEORGES TCE, PERTH WA 6000

QANTAS provide maintenance and overhaul facilities for a wide range of aircraft. They repair and overhaul digital and electronic airborne systems. QANTAS are an authorised LOCKHEED service centre and also work on engines such as: HERCULES, ROLLS ROYCE, PRATT & WHITNEY, ALLISON and BOEING. QANTAS are responsible for the RAAF's fleet of BOEING 707 aircraft. In their military advertisements QANTAS boast that "the United States Airforce, Navy and Marine Corps, French Airforce and Canadian Armed Services number but a few of our military clients. We were selected by the Malaysian Government to assist in the establishment of an engine overhaul facility for the Royal Malaysian Airforce. And our maintenance credentials include approvals from 18 recognised authorities internationally."

**QUALTEK INTERNATIONAL**

15 OPHIR ST,  
MOUNT WAVERLEY VIC 3149  
(PO BOX 807)  
GLEN WAVERLEY VIC 3150

PH03 887 8251  
FX03 887 8252

GENERAL MANAGER: W. MUNT

QUALTEK prepare cost and schedule, logistic, project and production etc., manuals and documents. They are also industry and technology analysts and produce tender and quote presentations.

**QUBIT P/L**

106 MARINE TERRACE  
FREMANTLE WA 6160

PH-09 430 4446  
FX-09 335 3565

ASSOCIATED COMPANIES: QUBIT NA INC. (USA), QUBIT UK P/L (UK),  
QUBIT CANADA LTD

QUBIT manufacture and supply high specifications systems to the maritime civil and defence markets. Products that they had on display at AIDEX 89 included: tactical plotting systems, relational database facilities and their then new product MASTER YEOMAN electronic chart table. In order to facilitate a larger slice of the military market QUBIT were assessed by the Department of Defence (Navy) and became an approved supplier.

**RAYTHEON COMPANY**

RAYTHEON are represented in Australia by HAWKER PACIFIC P/L. RAYTHEON produce military qualified VAX computers, radar systems and are involved in Patriot, Hawk and Phoenix missiles systems production amongst other activities. RAYTHEON are consistently amongst the top US Defence Department contractors.

SEE HAWKER PACIFIC P/L.

**RELLI TECHNOLOGY AUSTRALIA P/L**

361 NEPEAN HWY  
MORDIALLOC VIC 3195

PH-03 580 3377  
FX-03 587 3032

RELLI have offices in the USA, West Germany, Great Britain, Israel, France, Belgium, Holland and Singapore as well as "an extensive network of agents and representatives throughout the world". RELLI maintain a military related database and boast that they can source any item large or small. Their database management system contains over 20 million items ranging from missiles, tanks, aircraft, ships, torpedoes and communication equipment through to nuts and bolts. Their slogan is "Total Military Support". They distribute for, amongst others, BECKER FLUGUNK AVIONICS (Germany).

## ROBAND ENGINEERING DISTRIBUTORS P/L

ROBAND HOUSE, 1 YARRABANK RD  
SOUTH MELBOURNE VIC 3205

PH-03 614 4133  
FX-03 614 6068

MANAGING DIRECTOR: R. STEPHEN

ROBAND REPRESENT: LORD CORPORATION (ANTI-VIBRATION MOUNTINGS), PACIFIC SCIENTIFIC (AIRCREW RESTRAINT SYSTEMS AND FIRE DETECTION), LINK-MILES (FLIGHT SIMULATORS), FMA (AIRCRAFT), VERNON GAUGING SYSTEMS (AIRCRAFT ENGINE AUTOMATIC INSPECTION SYSTEMS).

## ROCKWELL ELECTRONICS (AUSTRALASIA) P/L

SUBSIDIARY OF ROCKWELL INTERNATIONAL US INCORPORATING COLLINS  
GOVERNMENT AVIONICS

CRN.MAROONDAH & SHEEP RD,  
(PO BOX 200)  
LILYDALE VIC 3140  
ALSO AT:

PH-03 727 9711  
FX-03 726 5920

1ST FLR, 99 NORTHBOURNE AVE, CANBERRA ACT 2600

### COLLINS AVIONICS

CRN SHARP & ALLIED DRV,TULLAMARINE VIC 3043

Rockwell provide avionics, ground, marine, satellite, fibre optics and secure telecommunications equipment and systems for military, government and commercial applications.

REPRESENT ROCKWELL INTERNATIONAL US  
(INCLUDING COLLINS DIVISIONS),  
ITALTEL SIT-DEFENCE TELECOMMUNICATIONS DIVISION (ITALY),  
DATAPRODUCTS NEW ENGLAND (USA),  
CHELTON (ELECTROSTATICS) LTD (UK).

ROCKWELL ELECTRONICS are the regional marketing, engineering and product support for the ROCKWELL and COLLINS range of avionics, telecommunications, microwave, light wave, electro-optical, communication switching, secure and related products. The Lilydale facility provides manufacture program management, installation and overhaul of defence fixed, transportable, ATC, ships, aircraft and other command and control communications equipment and systems.

COLLINS RADIO (US) manage the infrastructure of PINE GAP.

## ROCKWELL SHIP SYSTEMS AUSTRALIA P/L

3 THOMAS HOLT DR  
NTH RYDE NSW 2113

PH-02 805 5555  
FX-02 805 5599

ROCKWELL SHIP SYSTEMS manage the design, integration and installation of combat systems for the RAN.

As is the case with the majority of the large companies listed in this book the subcontracting offsets and joint project agreements between them are too numerous to contemplate.

## ROHDE & SCHWARZ AUSTRALIA P/L

A SUBSIDIARY OF ROHDE & SCHWARZ (WEST GERMANY)

63 PARRAMATTA RD  
SILVERWATER NSW 2141

PH-02 748 0155  
FX-02 748 1836

MANAGING DIRECTOR: A. BEAN

ALSO AT:

4TH FLR, 320 ST. KILDA RD, MELBOURNE VIC 3004

ROHDE & SCHWARZ have a range of products including electronic warfare, electronic test and measuring instruments, surveillance receivers, signal generators and position finding and time code generators.

REPRESENT: LUCAS WEINSCHL (USA),  
GRUNDIG ELECTRONIC (WEST GERMANY),  
KATHREIN-WERKE (WEST GERMANY),  
CTE (ITALY),  
KINEMATRICS (USA)

## ROLCO PRODUCTS P/L

13 CAHILL ST  
DANDENONG VIC 3175

PH-03 794 7833  
FX-03 794 8852

CONTACT: G. LUXFORD

ROLCO design, pattern and manufacture aluminium and bronze castings. They also advertise in military journals.

**ROLLS-ROYCE OF AUSTRALIA P/L****A SUBSIDIARY OF ROLLS-ROYCE UK**225 MILLER ST  
NORTH SYDNEY NSW 2060PH-02 959 3011  
FX-02 925 0543

CHAIRMAN OF DIRECTORS: K. KIRBY

As well as producing motor vehicles ROLLS-ROYCE produce what they call "the power plant to give you the tactical edge", the ROLLS-ROYCE Marine Spey (aeroengine). The ROLLS-ROYCE military advertisements tell you that their engines, approximately 1,000 of them are powering around 250 naval vessels for 25 navies.

**ROSEBANK ENGINEERING P/L**77 KNOX ST,  
(PO BOX 244)  
PORT MELBOURNE VIC 3207PH-03 645 3020  
FX-03 646 3421

ROSEBANK do analysis and testing of hydraulic systems and components and manufacture precision components and equipment.

**ROSEMOUNT INSTRUMENTS**471 MOUNTAIN HWY  
BAYSWATER VIC 3153PH-03 721 0200  
FX-03 720 4215

ROSEMOUNT market a range of products including engine ice detectors. They had military exports approved to the USA during the 89/90 financial year.

**SAGEM AUSTRALASIA P/L****A SUBSIDIARY OF SAGEM FRANCE**2/122 EUSTON RD  
ALEXANDRIA NSW 2015PH-02 516 5399  
FX-02 516 5595

MANAGING DIRECTOR: P. ODOVARD

ALSO AT:

123 EAGLE RD, BRISBANE QLD 4000  
213 GREEN HILL RD, EASTWOOD SA 5063  
44 GEORGES TCE, PERTH WA 6000

ELIZABETH ST, MELBOURNE VIC 3000

SAGEM produce a range of military systems including global positioning, system receivers, navigation and electronics. They specialise in telecommunications and data processing.

**SAFT BATTERIES AUSTRALIA P/L**1 COGGINS PL  
MASCOT NSW 2020PH-02 669 3366  
FX-02 317 5658

MANAGING DIRECTOR: P. TERRIEN

ALSO AT:

51 PRINCES HWY, DANDENONG VIC 3175

Product range includes marine, railways and aviation backup power system batteries, portable batteries for military electronics and advanced batteries for torpedoes, missiles and satellites.

**SCHENKER & CO (AUSTRALIA) P/L**19-21 CHURCH AVE  
MASCOT NSW 2020PH-02 693 4311  
FX-02 669 2615

MANAGER FAIRS &amp; EXHIBITIONS: R. KOEHLER

SCHENKER & CO., are the official custom agents, freight forwarders and on-site handling agents for AIDEX 91.

**SCIENTIFIC MANAGEMENT ASSOCIATES (SMA) P/L****THE SMA GROUP OF COMPANIES**HEAD OFFICE,  
200 GLADSTONE ST,  
(PO BOX 774)  
FYSHWICK ACT 2609PH-06 239 1133  
FX-06 280 5204

GROUP MANAGING DIRECTOR: K. SNELL

SMA provide management, engineering and logistics support services to major military projects including equipment procurement and provision of material, including publications and printing services to meet Department of Defence requirements.



## SIEMENS LTD

A WHOLLY OWNED SUBSIDIARY OF SEIMENS AG (GERMANY)

383 PACIFIC HWY  
ARTARMON NSW 2064  
ALSO AT:

PH-02 436 8711  
FX-02 436 8733  
544 CHURCH ST, RICHMOND VIC 3121  
9 PARKVIEW ST, MILTON QLD 4064  
153 BURSWOOD ST, VICTORIA PARK WA 6100

## SEIMENS PLESSEY ELECTRONIC SYSTEMS P/L

FARADAY PK, RAILWAY RD  
MEADOWBANK NSW 2114  
ALSO AT

PH-02 807 0400  
FX-02 807 0600  
BRUCE THYNNE ST, FERN HILL PARK ACT.

SEIMENS and PLESSEY have merged to pursue export opportunities in the military communications area. They have expertise in electronics, electrical engineering, integrated subsystems and communications for the military.

## SHORT BROTHERS AUSTRALIA P/L

A SUBSIDIARY OF SHORT BROTHERS PLC UK

SHORT BROTHERS AUSTRALIA have gone into liquidation. They are however, still maintain a representative at their Canberra Office

PRICE WATERHOUSE CTR, 19 MOORE ST, CANBERRA CITY ACT 2601

SHORTS produce transport and training aircraft, SAGW systems, target drones, armed patrol cars and personnel carriers.

## SIGMA AIR CONDITIONING P/L

4 BACHELL ST,  
(PO BOX 209)  
LIDCOME NSW 2141

PH-02 646 3311  
FX-02 649 1469

MANAGING DIRECTOR: K. ALLEN

Sigma design, develop and manufacture specialised airconditioning and filtration systems, applications have included portable defence shelters, passenger rail cars, mining drills, trucks and industrial crane cabins.

## SOFRACO INTERNATIONAL P/L

OPERATE UNDER THE NAME SOFMA AUSTRALIA

163-165 CLARENCE ST  
SYDNEY NSW 2000

PH-02 292 668  
FX-02 290 2553

MANAGING DIRECTOR: R. DUSSOL

SOFMA/SOFRACO market a large range of obscene products including nuclear submarine weapons and weapons systems; ammunitions, torpedoes, mines, missiles and underwater intervention equipment. They are also involved in heavy mechanical and electrical engineering, deep sea water works, ship building including nuclear submarines and also provide a range of ground equipment such as individual weapons, anti tank missiles, radar, radio, artillery guns, armed vehicles and mortars.

REPRESENT ALSTHOM (FRANCE),  
PIELSTICK MARINE DIESELS, ACB (FRANCE),  
CSEE DEFENCE DIVISION (FRANCE),  
JOHN HEPBURN (CANADA)

TECHNICAL SUPPORT SERVICES AN AFFILIATE OF SOFRACO.

## SPANSET AUSTRALIA LTD

UNIT 3, 11 RUSSELL ST  
EMU PLAINS NSW 2750

PH-047 353 955  
FX-047 353 630

MANAGING DIRECTOR: P. MATHESON

SPANSET AUSTRALIA is part of the international SPANSET GROUP with 11 plants worldwide many of their products and systems have NATO stock numbers including torpedo recovery systems, helicopter underslung equipment, ammunition slings and a variety of polyester lifting and lashing systems.

## SPOT IMAGING SERVICES P/L

SUITE 502, 156 PACIFIC HWY  
ST LEONARDS NSW 2065

PH-02 906 1733  
FX-02 906 5109

SPOT supply worldwide spot satellite images, digital terrain models and photomaps.

**STANILITE ELECTRONICS P/L**

A SUBSIDIARY OF STANILITE PACIFIC LTD

23A NYRANG ST  
LIDCOMBE NSW 2141PH-02 646 4011  
FX-02 640 7522

CONTACT: G. KENDALL

STANILITE PACIFIC was listed on the Australian stock exchange in 1988, major shareholders include the AUSTRALIAN INDUSTRY DEVELOPMENT CORP., and AMP SOCIETY. STANILITE is an electronics manufacturer specialising in applied electronics comprising design engineering, manufacture and technical services. This company is now taking million dollar contracts servicing foreign navies and forming international allegiances. At least 40% of the company's work is military.

SEE AMP  
AIDC**STATIC ENGINEERING P/L**6 OLDHAM RD  
ELIZABETH STH SA 5112PH-08 255 2355  
FX-08 255 4404

MANAGING DIRECTOR: DR. W. VERSCHOOR

STATIC produce and market a range of aircraft ground support equipment.

**STEBERCRAFT P/L**6 ELIZABETH AVE  
TAREE NSW 2430PH-065 522 577  
FX-065 510 344

STEBERCRAFT manufacture fibreglass commercial and pleasure boats as well as specialist vessels such as police launches, pilot vessels and patrol boats.

**STEEDMAN SCIENCE & ENGINEERING**

A DIVISION OF OCEANROUTES AUSTRALIA P/L

31 BISHOP ST  
JOLLIMONT WA 6014  
ALSO AT:PH-09 387 7955  
FX-09 387 668625 PROSPECT ST, BOX HILL VIC 3128  
OFFICES IN SINGAPORE, TOKYO AND CHRISTCHURCH

They have teaming arrangements with Science Applications International Corporation of the US and Qubit P/L of Perth. Their services include environmental measurements, statistical analysis, coastal, ocean and underwater engineering and systems engineering related to their consultancy programs.

**STRARCH INTERNATIONAL LTD**LVL 2, 28 ALBERT RD  
STH MELBOURNE VIC 3205PH-03 696 0377  
FX-03 696 0387

MANAGING DIRECTOR: S. QUIGLEY

STRARCH manufacture and market steel frame structures such as factories, bulk storage facilities, dock yards, military equipment stores, and airport facilities.

**UNITED TECHNOLOGIES CORPORATION**43 BRIDGE ST  
(PO BOX 600)  
HURSTVILLE NSW 2220PH- 02579 8000  
FX 02-579 8905

MANAGING DIRECTOR: F LARSEN, OTHER DIRECTORS INCLUDE: K R MURDOCH

UNITED TECHNOLOGIES was the company originally referred to as "the Military Industrial Complex". One of the largest weapons manufacturing companies in the world, United Technologies usually hides behind its OTIS Elevator Division in most countries. Their products include: passenger & goods lifts; automotive diagnostic equipment; energy management systems; building systems; aircraft engines; gas turbine systems; energy process equipment; aviation maintenance facilities; air conditioning; electronic products; electronic & mechanical control equipment; rocket & missile propulsion systems; space life support systems; radar & data processing & facilities; electrical insulating materials; integrated circuits & computer component systems and helicopters. The fact that ex-patriate Australian media magnate, Rupert Murdoch sits on the

Board of United Technologies could have something to do with the fact that this company is never mentioned in the media and also why any debate on the arms trade in the mainstream media very quickly gets diverted.

UNITED BOOSTERS, a division of UT, will possibly win the contract for the management of the Cape York Space Base if it goes ahead.

SUBSIDIARIES INCLUDE: ADVANCED SYSTEMS RESEARCH,  
AUTOMOTIVE,  
CARRIER,  
ESSEX,  
HAMILTON STANDARD,  
NORDEN SYSTEMS,  
OTIS ELEVATORS'  
PRATT & WHITNEY,  
SIKORSKY,  
SPACE TRANSPORTATION SYSTEMS.

### SUN MICROSYSTEMS (AUST) P/L

A SUBSIDIARY OF SUN MICROSYSTEMS FEDERAL INC. USA

49 HOTHAM PDE PH-02 436 4699  
ARTARMON NSW 2064 FX-02 436 1084  
ALSO AT: 495 VICTORIA AVE, CHATSWOOD NSW 2067  
NORTHBOURNE AVE, TURNER ACT 2601

SUN MICROSYSTEMS produce all manner of software and systems for military application both in Australia and in the United States.

### TECHNOLOGY AUSTRALIA P/L

1010 DONCASTER RD PH-03 841 9733  
DONCASTER EAST VIC 3109 FX-03 841 8374

MANAGING DIRECTOR: R. HALLIGAN

TECHNOLOGY AUSTRALIA provide consultancy, training and technical services to the military in regard to major projects and company capability also data analysis, software engineering management and training. They also operate the COMSEC Engineering Support Centre for Department of Defence. Technology Australia use the slogan "A resource to Defence Industry".

### TEKNIS SYSTEMS (AUSTRALIA) P/L

209-217 WAKEFIELD ST  
ADELAIDE SA 5000

PH-08 232 1690  
FX-08 232 1893

GENERAL MANAGER: J. SMITH

TEKNIS produce and specialise in computer based remote control and supervisory communication systems for military application.

### TEKTRONIX

80 WATERLOO RD  
NTH RYDE NSW 2113  
FX-02 888 0125

PH-02 888 7066

ALSO AT: 737 LOGAN RD, GREENSLOPES QLD 4120 AND NUMEROUS LOCATION AROUND THE COUNTRY.

TEKTRONIX produce technical instrumentation and computer equipment, service analogue and digital electronic equipment. They market to scientific, industry, engineering, mapping and military. Specialised equipment for communications includes auto and fibre optics.

### TELECOM AUSTRALIA

DEFENCE GROUP - JINDALEE PROJECT  
35 WINTERTON RD  
CLAYTON VIC 3168

PH-03 541 6000  
FX-03 562 7745

PROJECT MANAGER B DE BOER

TELECOM'S Defence Projects Group has been established for just over 3 years and is looking to be involved in military projects, the projects manager was quoted as saying "a look behind the scenes of Telecom dispels any notion that it's sole purpose in life is to provide telecommunications". Many of the defence groups hopes and dreams must have been fulfilled recently, when Telecom won the contract to build the first two Jindalee over-the-horizon radar stations from the Department of Defence. On Telecom's 'team' for this project are LOCKHEED MISSILE and SPACE COMPANY and GEC MARCONI. The project involves a substantial financial risk, with expenditure estimated at approx. \$A980million.

## TELEDYNE INDUSTRIES INTERNATIONAL INC.

285 WHITEHORSE RD  
BALWYN VIC 3103

PH-03 836 7177  
FX-03 836 1964

MANAGER: J. RICKARDS

TELEDYNE represent 22 Teledyne subsidiaries worldwide. They produce and market hydraulic and pneumatic components, navigation, aviation and communication systems, micro wave products, electric power systems, systems engineering, gas and diesel engines and remotely piloted vehicles. Teledyne are a major nuclear weapons contractor to the US Defence Department.

## TELEFUNKEN SYSTEMTECHNIK GMBH

PO BOX 63  
HAWKER ACT 2614

PH-06 255 1282  
FX-06 255 1217

AUSTRALIAN CONSULTANT: T. E. TOOHEY

TELEFUNKEN products include command control and guidance systems, communications equipment, antennas and air defence systems including: radars, fuses and seeker heads.

## TEXTILE INDUSTRIES AUSTRALIA LTD

159 VICTORIA PDE  
COLLINGWOOD VIC 3066

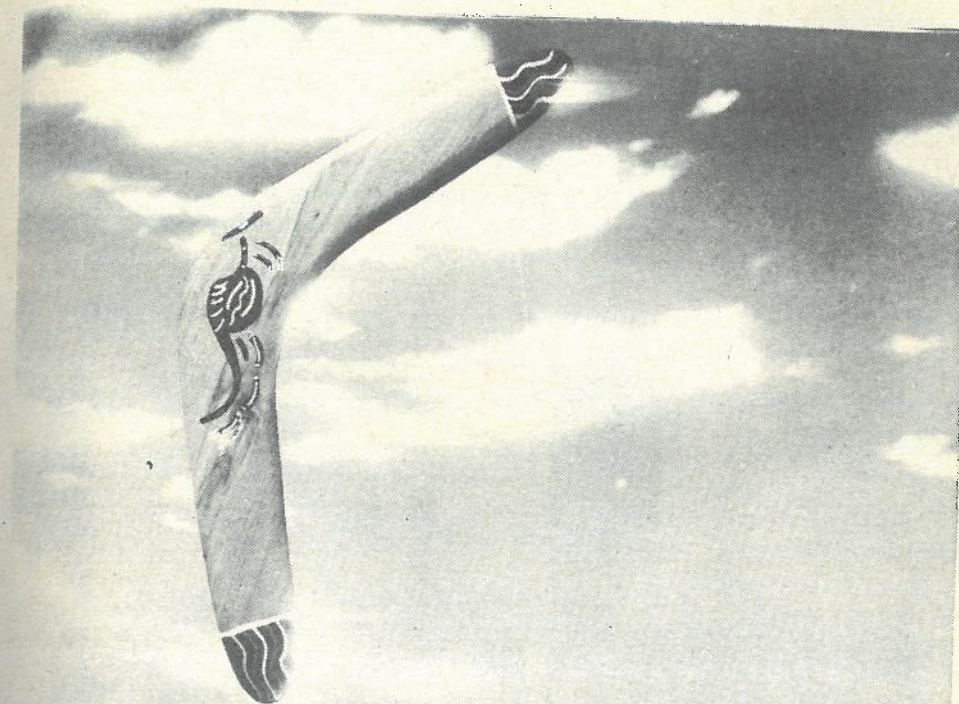
PH-03 417 7177  
FX-03 419 7420

GOVERNMENT CONTRACTS MANAGER: A. EASTWOOD.

HEAD OFFICE 12-28 ARNCLIFFE ST  
ARNCLIFFE NSW 2205

TEXTILE INDUSTRIES produce specialised fabrics for the military including for ballistic protection, combat clothing, parade clothing etc., applications: Textile Industries own Bruck Textiles and both of these companies participated in AIDEX 89.

SEE BRUCK TEXTILES



## WE ALSO BUILD FA-18 HORNETS.

Australia may still be more famous for boomerangs than state-of-the-art aircraft. But perceptions are changing rapidly.

Right now, on the very doorstep of Asia, you'll find one of the world's most advanced centres for defence and aerospace design, technology and production.

The place is Victoria, Australia. On a broad manufacturing base, Victoria has built an impressive defence and aerospace infrastructure. The state is the nucleus of research and development in Australia, with four world standard tertiary institutions and an extensive skills training system. There's a Cray supercomputer here for your use and we've also got a highly skilled workforce.

From advanced componentry to communications systems, Victoria has the capacity to develop, manufacture and test virtually any aerospace or military equipment or systems. For example:

- Construction and testing of FA-18 Hornet aircraft, Sikorsky Seahawk helicopters and Mamba light aircraft.
- Design and/or production via international joint ventures, e.g. the MDX helicopter airframes, the G.E. F404 and T700 engines.

- Development and installation of sophisticated submarine and communications systems.

- Building of 12 naval frigates at Williamstown, Australia's foremost marine engineering facility.

- Maintenance, service and modification on fleets of aircraft from the domestic and international airlines, e.g. Continental and Qantas Boeing 747s.

Victoria is in the perfect position to serve the defence and aerospace industry, in more ways than one. We're an island of political, social and economic stability in the Pacific, but still very much a part of the Asian region.

So look into Victoria more closely for your next defence or aerospace project/joint venture. Like our boomerangs, you'll no doubt find reason to keep coming back.

Phone, fax or write for more information now.

Contact Paul Casey on (613) 412 8116, or fax (613) 416 0347.

Or write to: Defence and Aerospace Group,

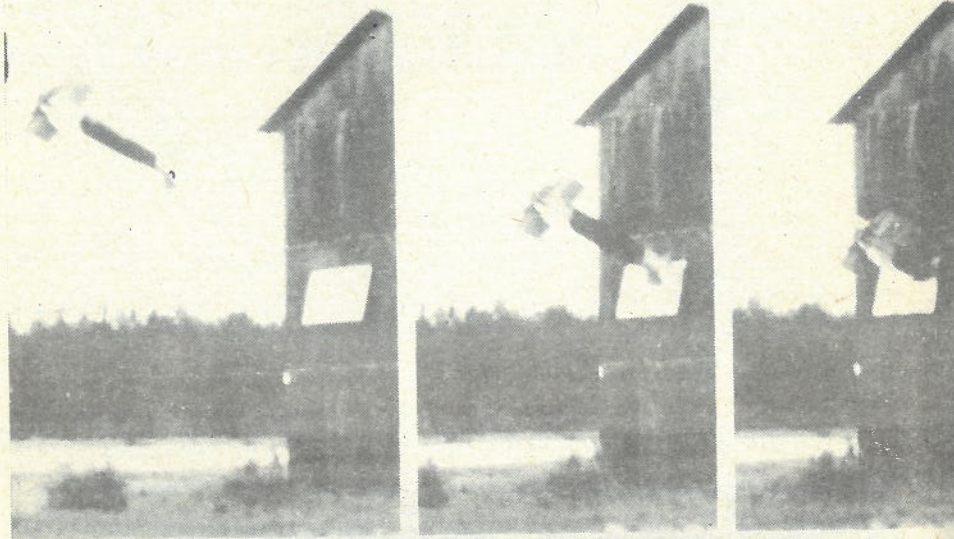
Department of Industry, Technology & Resources,

228 Victoria Parade,

East Melbourne, Victoria 3002, Australia.



Actual flight test photo. AGM-130. Photo: AFOSI 114



### AGM-130. THE STANDOFF WEAPON SYSTEM THAT WON'T MAKE A DENT IN THE BUDGET.

In deep strikes against fixed or mobile high-value targets, precision, payload and range are essential to mission success. And to aircraft survivability.

The U.S. Air Force/Rockwell AGM-130 standoff weapon system has proved itself capable of not just fulfilling these requirements, but doing so at an affordable price.

Recent development and operational tests demonstrated AGM-130's ability to deliver a 2,000-lb. warhead with pinpoint accuracy under a rigorous set of tactical profiles that included various range and altitude flights.

AGM-130 provides an unmatched combination of high lethality, aircraft survivability, flight profile flexibility and low cost. As a powered derivative of the modular GBU-15 system currently operational with the U.S. Air Force, it's built on proven technologies and tactics. And it benefits from GBU-15's established production, logistics, training and support resources.

No other weapon system can deliver as much punch with as much precision. And no standoff weapon system is as affordable. For more information, write: Missile Systems Division, Rockwell International, 1800 Satellite Blvd., Duluth, Georgia 30136, or call (404) 476-6300.



**AGM-130/GBU-15**

## THOMSON SINTRA PACIFIC P/L

A DIVISION OF CSF THOMSON (FRANCE)

112-128 TALAVERA RD  
NTH RYDE NSW 2113

PH-02 805 0755  
FX-02 805 0698

MANAGING DIRECTOR: JEAN-GEORGES MALCOR.

THOMSON'S are one of Europe's largest arms companies producing torpedoes, guidance systems, mine warfare equipment and launch equipment. In Australia their Sintra Pacific division act as agents for the Thomson Group of companies.

## THORN EMI (AUSTRALIA) P/L

A SUBSIDIARY OF THORN UK

98 GLOVER ST,  
CREMORNE NSW 2090

PH02 908 0600  
FX02 953 7337

THORN EMI are seemingly not involved with military services in Australia but operate in approximately 43 other countries in the world where they play a major role in providing to the military. Thorn EMI Electronics (Aust) was recently sold to AWA and now forms part of AWA Defence Industries.

## TNT AUSTRALIA

HEAD OFFICE  
1 LAWSON SQ  
REDFERN NSW 2016

PH-02 699 2222  
FX-02 699 9238

TNT's various divisions are spread throughout the country. TNT are the prime transportation contractors for the Department of Defence. They are the major shareholders of Ansett.

SEE ANSETT TECHNOLOGIES

## TRANSFIELD HOLDINGS P/L

100 ARTHUR ST  
NORTH SYDNEY NSW 2060

PH-02 929 8600  
FX-02 929 7187

Associated companies: TRANSFIELD CONSTRUCTIONS P/L, EGLO ENGINEERING P/L, AUSTRALIAN MARINE ENGINEERING CORP. LTD., ICAL LTD, AUSTRALIAN SHIPBUILDING INDUSTRIES LTD.

TRANSFIELD design, develop and manufacture light aircraft, rolling stock, heavy vehicles, cranes, steel demountable panels and floating bridge systems. Transfield are involved in the development of many large military and quasi-military developments such as the Cape York Space Base, the Very Fast Train and the Multifunction Polis. Transfield are seeking to buy the NSW Dockyard. In 1987 Transfield purchased AUSTRALIAN SHIPBUILDING INDUSTRIES although Transfield have no experience in submarine repair they were somehow granted the contracts to repair the Oberon submarines which had been traditionally refitted at Cockatoo. ASI dropped its first Oberon submarine off the keel blocks it caused \$300,000 worth of damage later they wrecked the periscope housing mechanisms. The submarine then sailed off to Singapore for repair. Most major military facilities in Australia would have some connection with Transfield Construction. Transfield are currently involved in the MOTOROLA CORPORATION'S satellite project known as Iridium.

### TRIPAL SYSTEMS P/L

140 BUCKHURST ST  
SOUTH MELBOURNE VIC 3205  
PH-03 696 3877  
FX-03 696 2545  
GENERAL MANAGER: J. B. PAYNE

TRIPAL SYSTEMS are involved in the design, development and implementation of engineering projects, together with project management support for turn-key systems. The company has experience in real-time computer based systems related to modelling and simulation, test ranges, combat data systems, aircraft control, underwater acoustics, radar, sonar and automated test equipment.

### TRIPPETT SHEDDEN

136 BUCKHURST ST  
SOUTH MELBOURNE VIC 3205  
PH-03 699 5779  
FX-03 699 2279  
JOINT MANAGING DIRECTORS: J. TRIPPETT & B. SLINGO

TRIPPETT SHEDDEN has taken a prime contract position in Australian and regional defence/aerospace projects. They are actively involved in a wide range of defence and aerospace systems projects in Australia and the Asia/Pacific region. They also have an international joint venture with CTA Incorporated for the application of sophisticated software and systems management tools to major defence and aerospace projects.

### ULTRAMARE AUSTRALIA P/L

169 JASPER RD  
BENTLEIGH VIC 3204  
PH-03 557 3666  
FX-03 557 9083

ULTRAMARE manufacture mine dispensers, munitions trailers, missile containers, bomb loaders, nitrogen boosters and a bizarre assortment of movers, handlers, stands, dollies, forklifts, platforms, unloading trucks etc. They also repair and overhaul engines, airframes, electronic and avionic components and ground support equipment. Ultramare Australia have branches in the United States, Singapore, Malaysia and the UK.

### UNDERWATER VIDEO SYSTEMS P/L

9 MACQUARIE PL  
BORONIA VIC 3155  
PH-03 729 8622  
FX-03 720 4948  
MANAGING DIRECTOR: R.C. PRIEST  
ALSO AT: UNIT 2, 14 PORT KEMBLA DR, SPEARWOOD WA 6163

UNDERWATER VIDEO represent a multitude of underwater engineering companies. Their capabilities include: laying of underwater cables, connectors and mouldings and supply of underwater 35mm video cameras, ROV's (remotely operated vehicles), underwater lighting, instrument sensors, acoustics and automatic radio direction finders.

### UNI GLOBE KEY TRAVEL

GRD FLR, 33 BERRY ST  
NORTH SYDNEY NSW 2060  
PH-02 959 4100  
FX-02 957 1411  
UNI GLOBE WERE THE OFFICIAL AUSTRALIAN TRAVEL AGENTS FOR DEFENCE ASIA 91.

### UNION CARBIDE (AUST) LTD

A WHOLLY OWNED DIVISION OF UNION CARBIDE CORP. (USA)  
1-7 JORDAN ST  
GLADESVILLE NSW 2111  
PH-02 879 6066  
FX-02 817 3318

UNION CARBIDE are one of the largest chemical companies in the world. There is nothing we can find in Australia linking them to military production here, but they represent their parent company which is a major supplier of

chemical products to the military industry. Union Carbide (USA) is under fire for refusing to clean up 10 million tonnes of tailings and other hazardous waste at its 40 year old mill in Colorado. They were also responsible for the chemical disaster in Bhopal, India which resulted in the deaths of thousands of innocent people. Union Carbide recently sold their Eveready Battery and Glad Divisions which were the target of a major US boycott campaign.

## UNISYS DEFENCE SYSTEMS

### UNISYS US

91 NORTHBOURNE AVE PH-06 274 3555  
TURNER ACT 2601 FX-06 274 3533

REPRESENTING UNISYS DEFENCE USA WHOSE CAPABILITIES AND PRODUCTS INCLUDE BATTLE MANAGEMENT, C3I, ELECTRONIC WARFARE, MICROWAVE GUIDANCE AND MATERIAL HANDLING SYSTEMS.

### VARIAN P/L

UNIT 6, 81 FRENCHS FOREST RD PH-02 451 9133  
FRENCHS FOREST NSW 2066 FX-02 452 2600

MANAGING DIRECTOR: D. ATKINSON

ALSO AT:  
11-13 PALMER CT, MT WAVERLEY VIC 3149  
85-89 EDWARD ST, EAST PERTH WA 6000  
6/422-424 TORRENS RD, KILKENNY SA 5009  
G3/52 JEPHSON ST, TOOWONG QLD 4066

VARIAN advertise their electron devices to the military industry.  
REPRESENT: VARIAN ASSOCIATES (USA), VARIAN TVT (UK), EIMAC (USA)  
AND CONTINENTAL ELECTRONICS (USA)

### VIPAC ENGINEERS & SCIENTISTS LTD

VICTORIAN TECHNOLOGY CTR, 275 NORMANDY RD PH-03 647 9700  
PORT MELBOURNE VIC 3207 FX-03 647 9735

GENERAL MANAGER: J. SIMMONS

VIPAC design and analyse vibration and system dynamics for the Defence and Aerospace industries. Their work is to military specification standards.

## VSEL (AUSTRALIA) P/L

BUTTS RD, MURRUMBATEMAN PH-06 227 5977  
PO BOX E15, QUEEN VICTORIA TRC FX-06 227 5962  
CANBERRA ACT 2600

DIRECTOR: S. CARNEY

THEY REPRESENT VICKERS SHIPBUILDING & ENGINEERING (UK), VSEL CONSORTIUM PLC AND CAMEL LAIRD SHIPBUILDERS LTD. VSEL UK ARE INVOLVED IN THE NUCLEAR SHIP AND SUBMARINE INDUSTRY.

## WANDEL & GOLTERMANN P/L

42 CLARENDON ST PH-03 690 6700  
STH MELBOURNE VIC 3205 FX-03 690 6750

REPRESENTING WANDEL & GOLTERMANN GMBH & CO. (GERMANY) SUPPLIERS OF TELECOMMUNICATION, DATA COMMUNICATION, TEST AND MEASUREMENT EQUIPMENT AND TELECOMMUNICATION SURVEILLANCE EQUIPMENT TO THE MILITARY.

## WARWICK FIREARMS

608 WARRIGAL RD PH-03 569 4329  
CHADSTOWN VIC 3148 FX-03 569 5817

WARWICK FIREARMS exported Brant & Vickers guns and spares to the United Kingdom in the 89/90 financial year.

## WATTYL AUSTRALIA P/L

48 WALKER ST PH-02 744 0401  
CANADA BAY NSW 2046 FX-02 747 5570

DEFENCE CONTRACTS SALES MANAGER: M. STOKES

WATTYL are the largest Australian owned paint company providing surface coatings for all applications. They also have licences with some of the world's largest surface coating manufacturers in Europe and the US. All their laboratories are NATA certified and most of their range has GPC approval. They were one of the first companies to verify their booking at AIDEX 91.

## WESTINGHOUSE ELECTRIC AUSTRALIA HOLDINGS LTD

A WHOLLY OWNED SUBSIDIARY OF WESTINGHOUSE ELECTRIC CORP. USA

49 MIOWERA RD.  
VILLAWOOD NSW 2163

PH-02 724 7322  
FX-02 726 9757

WESTINGHOUSE AUSTRALIA represent their parent company who are involved in all areas of defence electronics including: aerostat radar systems, air defence radar and fire control, air traffic control radar, airborne early warning and command, airborne fire control radar, aircraft electrical systems, C3 systems, electro-optics, electronic warfare, missile guidance and space systems.

## WESTLAND PACIFIC

103-105 NORTHBOURNE AVE  
CANBERRA ACT 2601

PH-06 257 6880  
FX-06 247 3798

WESTLAND specialise in manufacture and support of fully equipped helicopters for military and civil markets throughout the world. They are a joint operation of WESTLAND HELICOPTERS UK and HAWKER PACIFIC. Westland Helicopters include the Advanced Sea King, Super Lynx, Battle Field Lynx, The Black Hawk and the EH101. Westland's advertising boasts about the company's experience in weapon system design. They have signed a memorandum understanding with McDonnell Douglas for AH64 anti-tank helicopters.

## WORMALD TECHNOLOGY P/L

176 5TH CREEK RD  
DEE WHY NSW 2099

MANAGING DIRECTOR: N. BUTCH

PH-02 981 0611  
FX-02 971 9553

WORMALD supply fire detection and suppression systems, electronic damage surveillance and monitoring systems to the military.

## SIEMENS

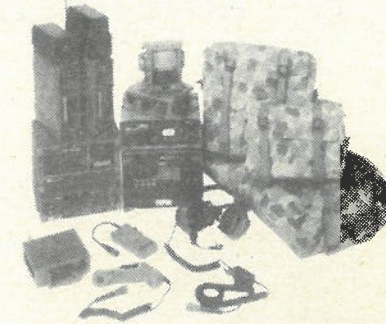


It's for you:  
**RAVEN**

Raven, leading edge technology in ECCM Combat Net Radio.

A complete HF and VHF design in military communications with development and manufacture in Australia for the Australian Defence Force. Raven is a fully integrated military communications, maintenance and management system including equipment shelterisation and Integrated Logistic Support (CALS).

The recent Siemens Plessey merger strengthens what was already a winner. Export opportunities are being pursued.



Siemens Plessey is a customer responsive company offering:

- User friendly equipment
- Apparatus tailored to customers specific requirements
- Advanced technology, supported by extensive levels of R&D
- System survivability in the most hostile environment
- Equipment yet unsurpassed by competition
- People working together for a common benefit

**Siemens Plessey Electronic Systems Pty Ltd**  
Faraday Park, Railway Road  
Meadowbank NSW 2114  
Telephone: (02) 807 0400  
Facsimile: (02) 807 0600

Siemens. A higher technology for the 90's



## WHO PAYS? ... YOU DO

Government Departments, both Federal & State have thrown their support not only behind AIDEX, but also behind the whole concept of increased weapons production.

These are some of the Government bodies that need to be challenged on this issue. Most of their advertising invites people to phone for more information.

## FEDERAL

### AUSTRADE

PO BOX 2386  
CANBERRA ACT 2601

PH-06 276 5258  
FX-06 276 5229

AUSTRADE is the primary Australian government instrumentality selling Australia to overseas corporations including weapons corporations. As part of its advertising techniques Austrade produce a 45 page colour booklet boasting about such Australian incentives as generous tax incentives (up to 150% tax concession for industry research), our wonderful climate, the universities, colleges and public research institutions which are available for their use. Australia's low energy prices available to be exploited, the proposed multifunction polis, a broad range of financial services, our stable workforce and goes on to cite the Bond Corporation as an excellent example of Australian entrepreneurship. The booklet closes with the quote, "Australia invites you to share in its prosperity. Big opportunities are there for the taking . . . you could become a business migrant by moving your business to one of Australia's many excellent business locations. The door is wide open all you have to do is accept the invitation."

### DEPARTMENT OF DEFENCE

RUSSELL OFFICES, PO BOX E33  
CANBERRA ACT 2600

PH-06 265 9111  
FX-06 266 6037

The Department of Defence is an arms exporter in its own right and has given its support to AIDEX 91 where it will be exhibiting.

SEE ALSO ADI (COMPANY LIST).

### DEPARTMENT OF FOREIGN AFFAIRS

KING EDWARD TRC  
CANBERRA ACT 2600

PH-06 261 9111  
FX-06 273 3577

At the same time as the Foreign Affairs Minister is making noises about other countries' human rights abuses he is allowing the sale of weapons to those very same countries and supporting AIDEX. Could it be that our Foreign Affairs Minister enjoys bleating about human rights abuses so much that he is doing everything he can to ensure they continue?

**DEPARTMENT OF INDUSTRY,  
TECHNOLOGY AND COMMERCE**

GPO BOX 9839  
CANBERRA ACT 2601

PH-06 276 1000  
FX-06 276 1111

The Department of Industry has given its full support to AIDEX91. We have seen in the past the pride shown by the Minister for Industry on the announcement of a major arms export contract being awarded to an Australian company (well it wasn't really an Australian company . . .) The Department sees weapons sales as an excellent method of improving Australia's standing in the global community.

**DEFENCE SCIENCE AND TECHNOLOGY  
ORGANISATION (DSTO)**

ANZAC PARK, WEST BLDG, CONSTITUTION AVE  
CANBERRA ACT 2600

PH-06 266 6516

CHIEF DEFENCE SCIENTIST: DR R. WARD

The DSTO was established in 1947 as the Australian instrumentality overseeing the atomic tests which took place at Maralinga in the '50's. The indigenous population in the Maralinga area are still seeking compensation from the Australian Government for the death, blindness and disease that were a direct consequence of these tests as well as compensation for the destruction of the land. The DSTO has come full circle and is now involved in the private enterprise weapons testing range which seems likely to go ahead in the same area. With over 4,000 employees the DSTO is a much larger organisation these days which is broken up into 5 major divisions, these are:

**AERONAUTICAL RESEARCH LABORATORY**

PO BOX 431  
MELBOURNE VIC 3001

PH-03 647 7400  
FX-03 645 3869

DIRECTOR: D.E. HUMPHREYS

**"MISSION** To enhance Australian defence capability through research and development in aircraft structures, materials, aeropropulsion, flight mechanics, aircraft systems and avionics."

The ARL employs 500 staff and occupies 10 hectares in Melbourne and an additional 200 staff in Salisbury and the ARL is primarily concerned with flight mechanics and aircraft structures for military aircraft.

**ELECTRONICS RESEARCH LABORATORY**

PO BOX 1600  
SALISBURY SA 5108

PH-08 259 5586  
FX-08 259 6944

DIRECTOR: J. S. ALLISON

**"MISSION** To enhance Australian defence capability through research and development in command and control, military information systems, communications, signals intelligence and electronic warfare."

The ERL was created in 1987 in an attempt to more closely align the priorities of the DSTO with those enunciated in the Defence White Paper. Functions of communications and electronic warfare have been combined with information technology. Substantial growth is planned in the next few years to reach a size comparable with other DSTO laboratories. ERL is broken up into 3 divisions these are:

The **Communication Division** which is undertaking research into the characteristics of transmission media including atmospheric, ionospheric and tropospheric media, signal reception and processing and the network dynamics of switched communications systems. A specialised section conducts mathematical research associated with cryptography and secure communications.

The **Information Technology Division** has its focus in 4 main areas: Secure Computer Systems, Computer Architectures and VLSI Implementations, Software Engineering particularly the Ada language and information systems.

The **Electronic Warfare Division** carries out research into electronic support measures and electronic countermeasures. Other significant activities are the provision of technical support for EW equipment on major ADF platforms such as the F-111C, F/A18, P-3C and capital ships.

**MATERIALS RESEARCH LABORATORY**

PO BOX 50  
ASCOTVALE VIC 3032

PH-03 319 3250  
FX-03 318 4536

DIRECTOR: W. CONNICK

**"MISSION** To enhance Australian defence capability through research and development in naval mine warfare, ship and submarine design and construction, protective chemistry, food sciences, materials applications and explosives."

The origins of the MRL go back to 1910 when a former guard room at Victoria barracks became its first laboratory. It now has a staff of over 600. The MRL has a laboratory in Tasmania, Queensland and Sydney as well as the main lab in Melbourne. MRL undertakes activities such as research in the field of high explosives, detonants, pyrotechnics, terminal effectiveness and fuses. It also investigates metallic alloys, ceramics, polymers and composites. Through its tropical studies branch in Innisfail, it is able to test these materials and equipment in harsh environments.

### SURVEILLANCE RESEARCH LABORATORY

PO BOX 1650  
SALISBURY SA 5108

PH-08 259 5004  
FX-08 259 5638

DIRECTOR: R.D. RAMSEY

**“MISSION** To enhance Australian defence capability through research and development in electromagnetic surveillance and reconnaissance.”  
The SRL is involved in the Over The Horizon Radar project as well as many other surveillance activities.

### WEAPONS SYSTEM RESEARCH LABORATORY

PO BOX 1700  
SALISBURY SA 5108

PH-08 259 5657  
FX-08 259 5476

DIRECTOR: C.R. EVANS

**“MISSION** To enhance Australian defence capability through research and development in weapons, tactical combat systems, underwater detection and surveillance.”  
The WSRL has a total staff of over 650 and an annual budget of over \$30 million with which it investigates more efficient methods of killing people. It is broken up into 4 divisions these are: Ordnance Systems Division which conducts fundamental and applied research into propulsion systems, interior ballistics, gun and rocket propellants, intermediate and exterior ballistics and unguided weapons. The Combat Systems Division which is responsible for the research and development and provision of scientific and technical support to the ADF. Their areas of interest are digital system designs, software engineering, information technology, artificial intelligence, human factors, operational analysis and computing techniques. The Maritimes Systems Division researches ocean sciences and is directed at the scientific understanding of the environment in which marine systems operate. Their main areas of interest are sonar detection systems, underwater acoustics, geophysics, physical oceanography and ocean engineering.

The Guided Weapons Division is the primary focus of guided weapon technology concentrating on the development maintenance of a technology base in precision guided munitions. Research and development programs are also conducted in non-explosive PGM components such as sensors, seekers, guidance processing, inertial systems, digital autopilots, actuators, missile structures, etc

**A** little piece of engineering which all Australians are expected to be proud of is the Karinga. A cluster bomb developed by the Weapons Systems Research Laboratory, at around \$9 000 000. The idea behind a cluster bomb is to inflict crippling damage to dispersed 'soft-skinned' targets by scattering 'bomblets' over a wide area. The Karinga would have been a great little money spinner for Australia, if not for the fact that the US built a similar contraption cheaper. So cheap in fact that there were plenty to throw around Iraq earlier this year. There is an argument that these type of devices contravene international law and peace activists both in Australia and the US are looking further into the matter.

The DSTO will be at AIDEX 91 anybody wishing to register their disgust at these massive amounts of money being wasted in such immoral ways should give them a call and let them know. Anybody who likes the sound of it can call their recruitment office on 06 266 6823.

### ENGINEERING DEVELOPMENT ESTABLISHMENT (EDE) OF THE AUSTRALIAN ARMY

RALLY RD  
MARIBYRNONG VIC 3032

PH-03 319 5511  
FX-03 318 3421

SUPERINTENDENT: N. OLIVER

The EDE (as well as being a testing facility) market a range of products including electron tubes, FM transmitters, MW transmitters, sleeping bags, uniforms, combat boots, radio systems, parachute data recorders and combat load carrying equipment.

SEE ALSO: AUSTRALIAN INDUSTRY DEVELOPMENT BOARD, TELECOM, QANTAS (COMPANY SECTION)

**NEW SOUTH WALES****DEPARTMENT OF BUSINESS & CONSUMER AFFAIRS****AEROSPACE DEFENCE & SPACE INDUSTRIES DIVISION**

PO BOX 972  
PARRAMATTA NSW 2124

PH-02 895 0513  
FX-02 635 3574

MANAGER: B. FANNING

Brian Fanning is the State Government's man who is selling NSW's universities, technology parks, R & D centres, TAFE colleges, labour force, transport and communications networks and climate to overseas aerospace/weapons organisations. Investment assistance, project facilitation, business development schemes, consultancy subsidies are just some of the incentives offered by NSW Inc., to defence companies to set up shop in NSW.

**TASMANIA****TASMANIAN DEVELOPMENT AUTHORITY**

GPO BOX 6466  
HOBART TAS 7001

PH-002 206 888  
FX-002 233 535

**TASMANIAN INNOVATION COUNCIL**

22 EARL ST  
LAUNCESTON TAS 7250

PH-003 322 838  
FX-003 341 131

These 2 instrumentalities are pushing Tasmania in the same way as all the other states offering university facilities, the Maritime College, a science based industry program and a high tech "Technopark" to defence manufacturers who can't handle the heat.

**QUEENSLAND****DEPARTMENT OF BUSINESS, INDUSTRY & REGIONAL DEVELOPMENT****INDUSTRY OPPORTUNITIES DIVISION**

46 CHARLOTTE ST  
BRISBANE QLD 4000

PH-07 224 2033  
FX-07 229 5280

MANAGER: J. CARTER

"Aerospace and other defence related industries have a key role in the Queensland Government's economic strategy . . . the planned Cape York Space Port, proposals for a Brisbane International Aerospace Development Zone and overseas and local contracts for space and defence related equipment indicates the momentum with which the strategy is being carried out." So begins a leaflet in which Queensland ("more than twice the size of Texas") is offered up to the masters of war. The Cape York Space Base and the Cape York North Queensland Enterprise Zone are sold as excellent opportunities for overseas investment. "Quality Queensland" is an easy access to the markets of South East Asia. Governments change but some things never do.

**WESTERN AUSTRALIA****DEPARTMENT OF STATE DEVELOPMENT**

GPO BOX D160  
PERTH WA 6001

PH-09 327 5555  
FX-09 322 4764

Half the Australian Navy fleet will soon be homeported at HMAS Sterling 50 kilometres south of Perth; new airbases are being built for the RAAF and the Jindalee OTHR is being built in WA. The government of WA is responding to these developments with policies aimed at building up the state's defence industries. The West Australian government is very friendly with big business and is inviting weapons corporations to develop an industry in the west.

## SOUTH AUSTRALIA

### DEPARTMENT OF INDUSTRY, TRADE & TECHNOLOGY

PIRIE ST  
ADELAIDE SA 5000

PH-08 210 8333  
FX-08 231 0448

DIRECTOR OF DEFENCE & AEROSPACE: P. CRAWFORD

"South Australia is exceptionally well placed to supply a wide range of defence technology . . . we manufacture everything from the smallest defence components to complete diesel electric submarines . . . the biggest defence research centre in the Southern Hemisphere is located in South Australia ."[For that matter so is the world's largest uranium mine (Roxby Downs), Nurrungar Spy Base, Woomera Rocket Launching Range, The Multi-Function Polis and the proposed private enterprise weapons testing range] Why would an arms dealer want to be anywhere else?

### Are You Looking For



- collaborative ventures with Australian defence industry?
- assistance with Government-to-Government representations?
- agency agreements with Australian defence companies?
- Australian industry supply?
- assistance to satisfy Australian offset obligations?
- assistance to market your product to the Australian Defence Forces or overseas?
- contact with Australian Defence Attaches and Trade Posts?
- loan of Defence equipment and personnel for industry missions and demonstrations?
- coordinated presentations in international and domestic defence trade exhibitions and overseas sales missions?

- advice on Australia's defence export policy?
- intellectual property protection and commercial exploitation?
- a contact within Defence Government to HELP you address any of these aspects?

then contact:  
ASSISTANT SECRETARY  
EXPORTS AND INTERNATIONAL PROGRAMS BRANCH  
DEPARTMENT OF DEFENCE  
ANZAC PARK WEST OFFICES CANBERRA ACT 2600 AUSTRALIA  
(PO BOX E 33, QUEEN VICTORIA TERRACE ACT 2600)  
PHONE (06) 2666739 TELEX AA 62063 FAX (06) 2666902 OR (06) 2485413



Department of Defence - Australia

**EXPORTS AND INTERNATIONAL PROGRAMS**

## VICTORIA

### DEPARTMENT OF MANUFACTURING & INDUSTRY DEVELOPMENT

#### DEFENCE PROJECT GROUP

228 VICTORIA PDE  
EAST MELBOURNE VIC 3002

PH-03 412 8119  
FX-03 419 0770

The Defence Project Group claims that the state offers an affluent, stable, economic and political environment. It encourages arms manufacturers to take advantage of its world class educational institutions which include Australia's only research CRAY super computer. The Victorian government's economic stability may no longer be there but they're not telling the arms companies that. In fact in January this year the Victorian Government made a commitment of a \$2.5 million contribution to the Telecom Defence Group, and \$1.5 million financial assistance for the First Australian International Air Show & Aerospace Expo, to be held next year.

SEE TELECOM (COMPANY LIST)

### SWINBURNE INSTITUTE OF TAFE

JOHN ST  
HAWTHORN VIC 3122

PH-03 819 8911  
FX-03 819 5454

Swinburne Institute, with support from the Federal Government market scientific instruments and advanced manufacturing engineering systems training at military exhibitions such as PRIDE90.

# BECAUSE THE MASTERS OF WAR ARE ALSO MASTERS OF OTHER THINGS

As with the company listings section, the products and brand names on the following pages are not comprehensive.

The lists are meant to highlight the extent to which, as consumers, workers and investors we are tangled in the web that the corporations and governments have spun.

This is not a 'non buyers guide'. It is the structures of greed we are attempting to challenge, reform at this point may not be enough!

If you were to attempt to only have dealings with the companies/products not listed in this book, chances are they are in someone else's book for poor worker conditions (here or overseas), maybe they test their products on animals or perhaps they are cutting down rainforests.

Even when the company names change, the bosses names often do not.

Be conscious of who you deal with and be responsible for your decisions, but it is in the final analysis, a question of whether it is acceptable for a small elite to control the vast majority of the planet's resources.

## OTHER PRODUCTS & SERVICES

Air Conditioning	Luke, Sigma, Carrierr
Antennas	Andrew Australia, Moonraker
Auto Parts & Accessories	BTR, Lockheed, Dunlop (Repco, Autopro, Checkpoint, Motorgard), Hawker Pacific (WD40, Amorall, Mermax), Lucas
Baby Care	Dunlop (Reaction, Steadyflow teats and bottles)
Batteries	SAFT, GNB
Boats	Channel Craft (light fibre glass boats), Stebercraft (pleasure boats)
Building Materials	CSR (Readymix Cement, Gyprock, wood and timber), James Hardie Products (Hardiplank, Hardiboard, Fowlerwaretc)
Cables & Wire	Beldon Electronics (coaxial, television, antenna cables)
Clothing	Dunlop (Adidas, Bonds, Gotcha, Cottontails, Grand Slam, Slazenger), Textile Industries Australia (Rio)
Computer Software	Control Data
Computers & Office Equipment	Alcatel STC Canon P/L (Canon Photocopiers, Facsimile machines etc.), Hewlett Packard, Honeywell, IBM, AWA, NEC
Condoms	Dunlop (Ansell, Affinity, Checkmate, Coriture, Lifestyles, Nuda, Ultrasure)

Courier and transport	TNT Ltd (Roadfast, Express, Spypak)
Detergents etc.	Clyde Industries (Ajax Chemicals: Bio-Joy, Bon-gard; Budget bleach, Castle, Hurricane, MYO, Zixo bleach)
Electric Cleaning Equipment	CompriTechnic (HT Blaster Water Cleaner), Karcher (water blasters, vacuum cleaners etc)
Electrical Goods	AWA, Philips, GEC, Telefunken, Thorn EMI (Canberra TV, Radio Rentals, HMV), General Electric (GE)
Fabrics & Manchester	Textiles Industries Australia (Sheridan, Brook, Actil, Carrington, Bruce & Prestige bed linens), Dunlop (Dri-glo, Dickies towels)
Fencing	Arnold Industries, Siemens
Financial Services	AMP, National Mutual Life Assurance
Fire Extinguishers	Wormald
Foods	CSR (Sugar)
Footwear	Blundstone P/L (boots); Dunlop (Adidas)
Hardware	ICI (Selleys products), Dunlop (Handymate disposable gloves, Workmate work gloves)
Insulation	CSR (Bradford, Pink Batts)
Legal	Henderson & Trout (Legal Firm)
Light Globes	Siemens (Wotan), GEC (Osram)
Lightsticks	Cyanamid (Cyalume Lightsticks)
Machinery	Caterpillar (earth moving, materials handling and engines), Detroit Engines, Hatz Engines, Lucas

Music	Thorn EMI (Allans Music, Belinda Music, Castle Records, EMI Records, HMV Records, Studio 301)
Paint	ICI (Dulux), Watty
Pet Care	ICI (Vetcare)
Photographic Equipment	Canon
Pool Chemicals	Clyde Industries (Ajax Chemicals: R70), Olin Australia: HTH
Publications	Australian Technical Publications (manuals)
Security	TNT Security, Arnold Industries, Siemens, Wormald
Sporting goods	Dunlop (Adidas, Slazenger, Repco, Speedwell, Malvern Star, Raleigh)
Storage Systems	BAC Australia
Telephones, Mobile Phones,	TNT Communications, Telecom, Ericsson, Radio equipment, etc Motorola, Philips, Siemens/Plessey
Travel	Ansett (Pioneer), Qantas, Commonwealth Bank (Travelstrength), Uni Globe Key Travel Agents
Tyres	Dunlop (Beaurepair)
Vehicles	JRA (Landrover), Mack Trucks, Mercedes-Benz, Rolls Royce
Water Purifiers	Memtec
Welding/Gas Equipment	CIG (Ggweld-electrodes and welders), CIG gases
White Goods	Email Westinghouse (Westinghouse, Metters, Frigidaire, Kelvinator and Email)

# AIDEX91 NATIONAL EXHIBITION CENTRE CANBERRA NOVEMBER 26-28 1991

## AUSTRALIA'S INTERNATIONAL DEFENCE & EQUIPMENT EXHIBITION

**AIDEX89** was the first major arms show to be held in Australia. Although this show was strongly opposed by many Australians, it was considered a great success by the organisers, the government departments and the companies exhibiting, with many sales opportunities having been made.

Desiko Pty Ltd, the company organising AIDEX91 claim that this years show will be 25% bigger than AIDEX89. The reception hall of NATEX as well as temporary buildings will ensure that the hundreds of death merchants who are flying in from all over the world will have ample space and privacy in which to demonstrate the latest methods and fashions of murder.

Mr Bob Day, Managing Director of Desiko, pointed to the large amount of 'first time' exhibitors and the "growth that we are experiencing" as placing AIDEX91 "right in the forefront of defence shows in the entire Asia/Pacific region"

Mr Day went on to say that "In spite of some of the hype of the peaceniks, the Gulf War has taught every sensible person that no country can afford to be complacent." Mr Day obviously expects greater participation in AIDEX91 from the Persian Gulf region,

stating that "the impact of the Gulf war will be felt on defence strategies and purchasing programs for many years to come"

A high level conference entitled "Australia and Space", to be held simultaenously with AIDEX, will ensure the presence of a large military aerospace contingent in Canberra.

Peace, social justice, religious, womens, youth, trade union, political and environmental organisations have joined forces in opposition to the AIDEX war fair and despite the claims in a recent AIDEX91 advertisement that "the pathetic little tribe of peaceniks.....have done little to raise the publics' consciousness about the cause of peace" and that "there is no room for critics of victory", a major rally is being organised with the objective of convincing the Australian Government & corporate sectors that the Australian people do not want this obscenity taking place.

One of the groups planning to be in Canberra for the AIDEX protests is the Australian Anti Bases Campaign Coalition (the only Australian peace group to bring out the army), and many 'Nurrungar style' actions may once again be the cause of serious embarrassment to the authorities.

Ecumenical peace services will also be taking place during the exhibition.

### TIME TABLE

## Australia's International Defence Equipment Exhibition

# Stop AIDEX '91

### Vigil: Parliament House Lawns, November 22-28 Blockade/Actions at the gates of Natex, November 23-28

**FRI 22** Rally: Parliament House Lawns 12.00 to 2.00pm.  
Contact: Canberra Program for Peace and RAAF.  
Vigil Parliament House Lawns sets up 12.00 noon, continues throughout AIDEX protests.  
Contact: Canberra Program for Peace.  
Candle Light Gathering: Parliament House Lawns 7.00 to 10.00pm - bring picnic supper and musical instruments.  
Contact: RAAF. (Renegade Activist Action Force).

**SAT 23** March to AIDEX site: gather Parliament House Lawns 10.00am.  
Contact: RAAF.  
Anti-AIDEX Concert: venue to be announced.  
Contact: RAAF.  
Blockade of exhibitions moving onto Natex site of AIDEX exhibition commences - starts 7.00am.  
Contact: RAAF.

**SUN 24** Workshops: Parliament House Lawns 10.00am to 3.30pm.  
Contact: RAAF.  
Ecumenical Service: Parliament House Lawns 4.00 to 6.00pm.  
Contact: Pax Christi.  
Candle Light Gathering: Parliament House Lawns starts 6.00pm overnight. Bring picnic supper and musical instruments.  
Contact: Pax Christi.

**MON 25** Rally: Parliament House Lawns 10.00am to 12.00 noon.  
Contact: Sydney Anti Bases Action Coalition.  
Action: Parliament House Lawns 2.00pm to 4.00pm.  
Contact: Sydney Peace Squadron.

**TUE 26** Rally: AIDEX site, 10.00am.  
Contact: RAAF.  
Commencement of activities at AIDEX site - continues throughout exhibition.  
Note: AIDEX is open from Tuesday 26 to Thursday 28 November from 10.00am to 6.00pm.  
Contact: RAAF.  
Parallel Conference: Point of Impact, Australian National University. Contact: Peter Jones (06) 277 3790.

**WED 27** Womens Action: AIDEX site - morning.  
Contact: Wimmin for Survival (Hobart)  
Note: keen for other womens groups to join them.

**THU 28** Environment Action: AIDEX site - morning.  
Contact: Friends of the Earth (Melbourne)  
Note: keen for other environment groups to join in.

#### Contacts List:

**Canberra Program for Peace** (062) 497 951 Bobi Meyer.  
**Pax Christi** (02) 281 8390 Denis Doherty.  
**Friends of the Earth** (Melbourne) (03) 419 8700 Cam  
**RAAF** (02) 281 5100 Diana Ingram, or Jan and Jacob  
PO Box 24 Kings Cross 2011.  
**Sydney Anti Bases Action Coalition**: (02) 281 8390  
Dennis Doherty or Hannah Middleton.  
**Sydney Peace Squadron** (02) 316 5790 Rob Samsa.  
**Wimmin for Survival**, Hobart: (022) 72 9182 Liz Denham.  
**Message to all groups**: This timetable will be continuously updated. If you want your groups activities and contact no's to be added contact: Diana (02) 281 5100.



MANY OTHER ORGANISATIONS WILL BE CONDUCTING  
ACTIVITIES DURING AND IN THE LEAD UP TO AIDEX91 —  
THE STOP AIDEX CAMPAIGN HOPES TO HAVE DETAILS AS  
THEY ARE ORGANISED.

It is hoped that the car park opposite NATEX (National Exhibition Centre) will be available, this depends to a large extent on the cooperation of the recently returned ALP Government in the ACT. As the ACT branch of the ALP spoke out against AIDEX89, this should not be a problem.

AIDEX91 will be the first major protest to take place in the ACT since control of most of the Police Force was transferred to the ACT Government. During AIDEX89, the Police reacted quite harshly to those arrested during the protest, taking such measures as refusing bail for people without an ACT address. It is hoped that under the new system the police will react somewhat differently. The presence of legal observers at all protest sites at all times which is being organised by the Stop AIDEX Campaign will facilitate support for anyone with police or legal problems (anyone out there willing to offer legal expertise are urged to get in touch).

It is envisaged that non-arrestable actions will be happening at all times for those who do not wish to take part in blockades. All actions listed in this book will be based on the principles of non violent resistance.

In the lead up to November the campaign to stop AIDEX continues. Activities and events to focus awareness not only on AIDEX, but on the arms trade and militarisation are taking place. The production of this book is in response to increased awareness leading to many requests for information.

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**STOP PRESS**

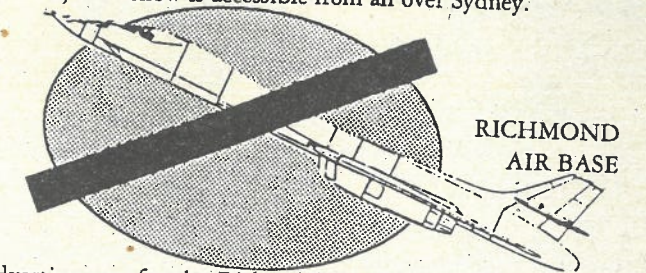
On the day of printing, the ACT Government announced that it is looking into the possibility of having AIDEX91 cancelled.

## The Richmond Air Show

There are two distinctly different types of advertisement produced by the Aerospace Foundation, organisers of the Richmond Air Show.

The first gaily invites Sydneysiders to bring the kids along to have a look at the marvels of the air. Military aircraft from Australia and overseas will be made available for kids to view from close range - even climb over! Flyovers and aerobatic displays will combine with the fairyfloss and icecream on the ground to create a carnival atmosphere that no caring parent would want their kids to miss. Local businesses go into festival mode and the township of Richmond on the North Western outskirts of Sydney is bedecked in bunting. Special train services ensure that Australia's major air show is accessible from all over Sydney.

OCTOBER  
11-13th



The other type of advertisement for the Richmond Air Show encourages buyers and sellers of aerospace weaponry to take the opportunity of the trade fair component of the show as an excellent place to do business. The trade fair of course takes place at a different time to the public admission events, so that the secrecy under which the masters of war are accustomed to doing business can be maintained and no troublesome citizens can get in the way.

The trade fair is the real reason for the Richmond Air Show. The sideshow featuring weapons direct from their victory in the Persian Gulf is a public relations exercise aimed at showing the 'human face' of the military industry. Glorifying the weapons used to kill over 300 000 people this year is nothing more than an obscenity.

Encouraging children to marvel at these machines is yet another attempt to introduce militarism into the popular culture.

The Richmond Air Show is also being used as a precursor to Air Show Downunder, a major international event taking place in Victoria next year. Sydney Anti Bases Action Committee (SABAC) is attempting to have the Richmond Air Show cancelled and also have contingency plans for a protest to take place if it goes ahead (which at this stage seems likely). Find their number on the previous page.

## THE RICHMOND AIR SHOW

## MARKET FORCES

by Paul Cosgrave

No longer do they merchandise weapons in plain wooden boxes.  
No longer are the contents indicated by rough stencil letters.  
No longer are the arms stored and concealed deep in the ground.

Now,

Armoury of every kind is displayed and marketed at glittering trade shows.  
Every despotic power on earth comes to browse and buy.

To kill  
To maim  
To torture  
To make money  
To buy weapons  
To kill

There are glossy brochures shiny and smooth.  
There are videos showing the vicious effects.  
There are experts, professionals, veritable deathsmiths.

To sell  
To advise  
To make money  
To make a killing

I report my findings to the trading standards office.  
They act, and tell the organisers that they must not mislead.  
At the following year's "trade show" the organisers complied.  
All packages had labels with pictures of dead people on them.  
Lying with faces blown apart.  
Bowels, bellies and brains spilt on urban floors.  
Charred bodies bent and twisted with heat.  
Blood, urine and bile moistened the pouting lips of death.

Then I noticed

In small white print at the bottom of these labels the words,  
These are only serving suggestions.

Source: C.A.A.T. (U.K.) October 1990

**SOUTH-EAST ASIA'S  
PREMIER  
DEFENCE SHOW  
RETURNS**

**DSA  
92**

**3RD DEFENCE SERVICES ASIA  
EXHIBITION & CONFERENCE**

INCORPORATING  
**PLEA 92**  
1st Police & Law Enforcement Asia

**27-30 APRIL 1992  
PUTRA WORLD TRADE CENTRE  
KUALA LUMPUR, MALAYSIA**

Official Publication  
**ASIAN  
DEFENCE  
JOURNAL**

Endorsing Journals  
**JDW** **INTERNATIONAL  
DEFENCE  
REVIEW**

**TULY  
SUPPORTED  
BY THE  
MALAYSIAN  
GOVERNMENT**

**ACT NOW FOR FURTHER INFORMATION**

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Tel: \_\_\_\_\_  
Fax: \_\_\_\_\_

Return to: Malaysian Exhibition Services Sdn Bhd  
2nd Floor Wisma Sora, Jalan Semantan, 50490 Kuala Lumpur, Malaysia

Agency: 4749-800 by  
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Sdn Bhd  
474

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Overseas Exhibition Services Ltd  
11, Market Street  
London W1M 2AD  
United Kingdom  
Tel: 01 496 1951  
Telex: 24591 MONTX G  
Fax: 01 424 6782

The millions lost to wars' violence are not the only victims.

### The Social Balance Sheet

Public funds are limited. Alternative uses have value or "opportunity costs". Following are examples of the opportunity costs of the \$17,000,000,000,000 arms race. They represent the failures of the world's safety net to provide the protection that could be given if public policies and resources adequately addressed them. They speak to a need for a fundamental shift in world priorities.

#### Victims of Wars annual toll

525,000 killed in an average year in the 127 wars since 1945.  
1,200,000 injured in an average year in the 127 wars since 1945.

#### Victims of Social Neglect annual toll

##### Children

250,000 are paralysed by polio.  
700,000 become partially or wholly blind due to Vitamin A deficiency.  
3,500,000 die of dehydration, preventable by oral therapy at \$1 per child.  
4,000,000 die of six diseases, preventable by immunisation at \$10 per child.  
10,000,000 do not survive to their first birthday.  
14,000,000 die before their fifth birthday.  
20,000,000 begin life dangerously underweight, vulnerable to early death.  
146,000,000 under five years of age are underweight for their age.  
150,000,000 aged between 6 and 11 years are not enrolled in primary school.

##### Mothers

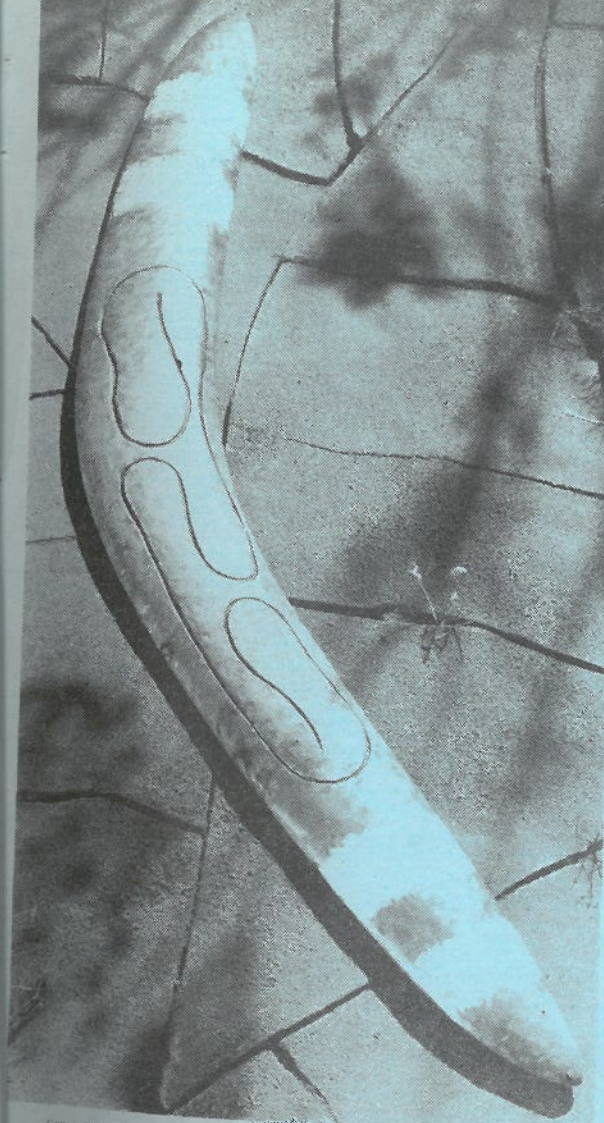
500,000 die in childbirth.  
10,000,000 who are themselves malnourished bear malnourished babies.  
62,000,000 give birth without a trained person attending.  
570,000,000 women cannot read and write.  
600,000,000 women in the child-bearing years suffer from nutritional anemia.

##### Everyone

200,000,000 have iodine deficiency which can retard mental and motor skills.  
950,000,000 are chronically malnourished.  
1,100,000,000 do not have access to elementary health services.  
1,600,000,000 do not have safe water to drink.  
2,700,000,000 live in countries where average income is below \$500 per year.  
2,900,000,000 lack the simple sanitary facilities essential to health.

R.L. Sivard: World Military and Social Expenditures 1989

LOW SIGNATURE MISSILE SYSTEM. CIRCA 10TH CENTURY BC.



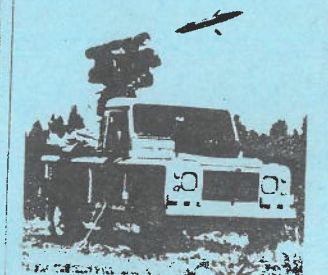
DITTO. LATE 20TH CENTURY.

Complete flame suppression and no smoke are clear signs of Royal Ordnance's leadership in rocket motors and propellants. The Bofors RBS 70 missile with its minimal exhaust signature in both infra red and ultra violet spectra is a typical product of this leadership. Other examples are rockets that won't explode when subjected to external fire or fragment attack.

Royal Ordnance produces a wide range of rocket propulsion systems. For land, sea and air guided missiles, for underwater, and in space. They're designed to operate reliably in extreme environmental conditions. And they're in service in all parts of the world.

We have the UK's only fully integrated rocket motor facility, offering research, design and development, manufacture and in-service support.

Today's forces need state-of-the-art technology more than ever before. Anything less falls short.



**ROYAL ORDNANCE**  
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# 1991 IBM AUSTRALIA CONSERVATION AWARD

A JOINT INITIATIVE OF IBM AUSTRALIA LIMITED AND THE ZOOLOGICAL PARKS BOARD OF NEW SOUTH WALES

## Objectives of the Award

- To recognise significant achievement in any field of endeavour to advance the conservation of the natural environment.
- To promote greater public awareness of the breadth of current activity aimed at long term environmental conservation.
- To stimulate further work, including the development of new technologies which advance the conservation of the natural environment.

## Scope of the Award

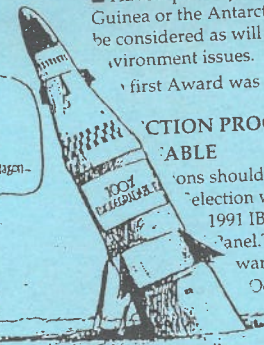
This Award has been established to recognise the quality of effort and personal commitment of both individuals and organisations in achieving significant results in one of the following fields of endeavour:

- scientific research
- application of research findings or technological development to management of environmental problems
- public education program
- public policy or the law
- community programs

### ELIGIBILITY

Submissions will be accepted from an individual or group. There is no restriction on the nature of the institution, private or public. Application can be made by an individual, the institution involved or by a third party. In exceptional circumstances a posthumous nomination will be accepted. Anonymous submissions will not be accepted.

I wonder about some of the industries that are helping on the environmental base.



Nominations for the Award should conform with the following criteria:

- Represent the results of work undertaken in the past five years.
- Demonstrate substantial and long lasting benefit to the conservation of the natural environment.
- Have a primary focus on Australia, Papua New Guinea or the Antarctic although other regions will be considered as will submissions relating to global environment issues.

The first Award was presented on 25 October, 1990.

## SELECTION PROCESS AND

### CRITERIA

Selection should be submitted no later than 1 October 1991. Selection will be based on the recommendation of the 1991 IBM Conservation Award Selection Panel. The Winner/s will be announced at the Award Presentation to be held in October 1991.

## NATURE OF THE AWARD

The Award Winner will receive a cash prize of A\$35,000.

Five additional prizes of A\$1,000 each may also be awarded.

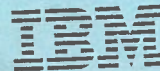
All prize winners will receive a commemorative ceramic by Sydney Ceramist Mr Ray Rogers.

## SUBMISSION DETAILS AND CONTACTS

Nominations should be addressed to:

The Chairman  
1991 IBM Conservation Award Review Committee  
Taronga Zoo PO Box 20 MOSMAN NSW 2088

Enquiries Contact:  
1991 IBM Conservation Award Secretariat



IBM Australia Limited  
PO Box 400 PENNANT HILLS NSW 2120  
Attention: Ms Di Berry Phone (02) 634 8139



Taronga Zoo  
PO Box 20 MOSMAN NSW 2088  
Attention: Dr Jack Giles Phone (02) 969 2777

# INDEPO

## DUBAI'92

SUPPORTED BY: MINISTRY OF DEFENSE UNITED ARAB EMIRATES

## AN INTERNATIONAL DEFENCE, POLICE & CIVIL SECURITY EQUIPMENT EXHIBITION

26th - 29th January 1992 AT THE DUBAI WORLD TRADE CENTRE - UNITED ARAB EMIRATES



Contact AUSTRADE: Greg Hull (06) 276 5266; fax (06) 276 5274  
Defence [E&IP]: Gary Luck (06) 266 6556; fax (06) 266 6902  
Australian Agent: Bruce Davies (060) 41 3806; fax (060) 41 1256.

## THE BEGINNING

**The first step in challenging the masters of war is to expose them.**

**This book was never intended to be definitive, rather its purpose is seen as a spur for further action.**

Much of the information on the companies and government departments in this book is incomplete either due to the lack of it or the conscious decision to not include much of what started coming in as we were ready to print. The task of fully researching these companies would prove to be a full time job in itself and although we feel this to be an area where much work is needed, we do not feel it to be our direction at this time.

The companies and government departments listed in this book pervade the entire fabric of our society. The chances are that either you or someone close to you work for a division of one of these companies. If we are to expose these war mongers we need more information.

The Renegade Activists Action Force are not arm chair political academics, we are, as our name suggests, a grass roots, action based group of activists who have collectively and individually been working on issues of militarism and environmental degradation for many years. We believe that this endeavour can only be successful if the information comes from the people.

The update of this book rests with you

Thanks to Mr T for most of the typesetting (the good bits), perseverance, Mr E for the printing and support and all those good people who were dislocated from their homes and workplaces by this project.



PRODUCED BY  
**RENEGADE ACTIVISTS**  
**ACTION FORCE**  
PO BOX 24 KINGS CROSS  
SYDNEY NSW 2011

At the heart of every just cause is the cause of justice