

A Vehicles

A vehicles = tracked or wheeled armoured vehicles.
B vehicles = wheeled, lightly or non-armoured vehicles generally used for logistic tasks.

Pics Brian Hartigan, ADF and UK MoD



LEADING SEAMAN ANDREW DAKIN

CHARACTERISTICS	
Weight	62 tonne
Length	7.93m hull 9.83m gun forward
Width	3.65m
Height	2.89m
Crew	Four – commander, gunner, loader and driver
PERFORMANCE	
Engine	Honeywell AGT1500C turbine
Power	1119kw [1500shp]
Speed	72km/hr highway 48km/hr cross-country
Range	400km+
ARMAMENT	
120mm M256 smooth-bore cannon	
12.7mm [.50 cal] M2HB QCB machine gun	
2 x 7.62mm MAG58 machine gun	
66mm smoke grenade launchers	

M1A1 Abrams

The M1A1 Abrams main battle tank is a key component of the Australian Army's combined-arms team.

Abrams is fitted with advanced composite armour, which provides substantial defence against conventional weapons and improvised explosive devices.

The engine is a gas turbine [jet] engine – which can burn a range of fuels, though Australia uses diesel by default – coupled to an automatic gearbox.

Fuel and ammunition reside in separate compartments to protect the crew from the risk of the tank's own ammunition exploding if the tank is damaged.

When the ADF purchased 59 refurbished American tanks, it also purchased the tank, urban survivability kit, which greatly enhances the Abrams' survivability in complex terrain.

Abrams is fitted with an on-board digital fire-control computer – compensating for climatic conditions and vehicle movement – that enables the gunner to 'point and shoot' to engage targets quickly, out to 2500m or more. This capability coupled with an advanced sensor suite, allows the Abrams to engage targets at extended ranges, day or night, even in adverse weather conditions.

To support the Abrams, the ADF also procured seven M88A2 HERCULES [Heavy Equipment Recovery Combat Utility Lift and Evacuation System] armoured recovery vehicles. HERCULES is a fully-tracked heavy-armoured vehicle which performs hoisting, winching and towing as part of recovery operations and evacuation of heavy tanks and other combat vehicles.

Abrams is also supported by Heavy Tank Transporters to fulfil its long-range logistics requirements.

A range of simulators have also been procured to assist in training and crew preparedness.

ASLAV

CHARACTERISTICS	
Weight	13.5 tonne
Length	6.57m
Width	2.77m
Height	2.43m
Crew	Three – with up to six passengers
PERFORMANCE	
Engine	Detroit Diesel 6V 53T
Speed	100km/hr
Operational range	600km
ARMAMENT	
25mm M242 Bushmaster chain gun	
2 x 7.62mm MAG58 machine gun	
76mm smoke-grenade launchers	



BRIAN HARTIGAN

The Australian Light Armoured Vehicle (ASLAV) is an eight-wheel vehicle that has been modified to deal with Australia's harsh conditions. Modifications include the widest wheels and tyres available.

Its four front wheels are used for steering, via a truck-like steering wheel, while 4x4- or 8x8-wheel-drive is selectable. Transmission is automatic.

Despite being designed as an amphibious vehicle and sporting two boat-style propellers at the back,

CONTACT believes Australian ASLAVs are no longer capable of 'swimming' because of their weight in battle-ready configuration.

ASLAV is said to be reliable, relatively cheap to maintain and with an ability to self-deploy quickly over long distances.

ASLAV-25 [pictured] is fitted with an electric turret and 25mm Bushmaster chain gun, coupled to thermal optics and integrated laser range finder.

Other variants without the turret or chain gun, such as command vehicles and APCs, can be fitted with remote weapon stations.

With run-flat tyres, small-arms resistant armour, internal spall protection, a counter IED electronics suite and an automatic fire-suppression system, crew and passenger survivability is optimised.

Much development and modification to the original US LAV-25 – itself developed from the MOWAG Piranha – was undertaken for and in Australia.

Variants of the ASLAV include reconnaissance, personnel carrier, command, surveillance, ambulance, fitter and recovery vehicles.

The fleet is supplemented by nine advanced gunnery simulators known as crew procedural trainers, which significantly reduce the cost of training ASLAV crews and maintaining their combat readiness.

Bushmaster



BRIAN HARTIGAN

CHARACTERISTICS	
Weight	12.5 tonne
Length	7.18m
Width	2.48m
Height	2.65m
Crew	One
PERFORMANCE	
Engine	Caterpillar 3126E
Range	800km
Speed	100km/hr

The Bushmaster Protected Mobility Vehicle (PMV) is an Australian designed and produced blast-resistant vehicle that can rapidly deploy up to 10 battle-ready troops in all environments.

It has been credited with saving many Australian lives in Afghanistan, with no fatalities to date despite a large number of IED strikes.

Bushmaster's cabin design gives it flexibility to serve in a variety of roles and configurations.

In basic configuration, Bushmaster is designed to carry and sustain a nine-man infantry section.

It is fully air-conditioned and can store up to 250l of drinking water and a three-day supply of food.

Bushmaster carries one complete spare wheel, but all fitted wheels have run flat-tyre inserts, allowing them to continue travelling with multiple punctures. A central tyre-inflation system allows the drive to vary tyre pressures to cope with changing ground conditions, from pristine highway to soft sand.

Bushmaster uses an armoured v-shaped hull to protect its passengers from landmines and IEDs, the shape acting to deflect an upward blast away from the vehicle.

Its welded one-piece shell is designed to protect troops against all small arms fire. Windows also provide a similar level of ballistic protection.

Fuel and hydraulic tanks are positioned outside the crew compartment to reduce the risk of fire. A protected emergency fuel tank gives the vehicle extra capacity to escape an incident in the event that the main fuel tank is ruptured.

The vehicle can be fitted with a remote-controlled weapon station.