



# PROTECTION

# MILITARY



## ARMoured PERSONNEL VEHICLES

Land Rover's proven experience in providing armoured protection is becoming increasingly important in today's rapidly changing security environment. The Land Rover range of armoured vehicles are in use throughout the world; They provide all-purpose protection, whether for warfare, peace-keeping, internal security

operations or special duties.

Land Rover is meeting customers' growing needs with advanced new vehicle protection systems. The Defender CAV 100 is equipped with GRP armour developed by Courtaulds Aerospace, providing high levels of protection whilst retaining light weight.



Land Rover also supplies a range of discreetly armoured protection vehicles for escort duties, VIP protection and convoy work.

(\*NOT AVAILABLE IN EUROPE) THE 2.5 LITRE PETROL ENGINE IS AVAILABLE ONLY WITH DEFENDER 90 AND 110.



**Whatever your  
specific requirements,  
Land Rover can provide  
the tailor-made  
vehicles to meet your  
needs reliably and  
cost-effectively.**



## Discovery Discreetly Armoured

This vehicle has been developed from the Discovery to give advanced levels of protection against small arms whilst accommodating up to 5 people in comfort.

The vehicle provides a cost-effective solution in situations where high levels of security need to be combined with an outwardly standard appearance.

Protection is provided by the fitment of lightweight armour steel, cut from ballistically tested and certified sheets. All glass areas are fitted with multi-laminated, bullet-proof glass with a polycarbonate inner liner. All apertures are overlapped and fitted with ballistic splash guards.

The fuel tank and battery are protected and the fuel system is explosion suppressed. Run flat capability tyres retain stability in the event of a blowout.

A speak in/speak out intercom system is fitted, and the wide range of options includes an oxygen system, fire extinguisher systems and an electronic tamper detection device.

The Discovery is well known for its exceptional 4 wheel drive capability, allowing the vehicle to cope effectively with sudden changes to off-highway driving in an emergency.

Defender and Classic Range Rover vehicles can be similarly discretely armoured.



## Defender CAV 100 Armoured Patrol Vehicle

The CAV 100 is one of the most advanced armoured patrol vehicles available, providing a cost-effective solution for reconnaissance and counter-terrorist roles.

Based on the 110 heavy duty chassis of the Defender family of military vehicles, the CAV 100 gives outstandingly good protection against small arms and anti-personnel mines for up to 10 crew including kit.

Courtauld's armour concept is based on the use of high performance glass-reinforced composites made by high pressure compression moulding processes.

The armour can be tailored to meet a wide range of threats, including mine blast, fragmentation, grenade attack, burning or corrosive fluids and high velocity small arms. The risk of behind armour splintering is almost nil, and protection against multi-hits is good.

The composite monocoque construction of the armour gives it tremendous strength, which has been extensively proven in a comprehensive performance validation programme. Transparent armour throughout the glass area gives equivalent performance and additional local protection is applied to all glazing and lights.

The composite armour is up to 20% lighter than the equivalent steel armour and, with virtually no metal in the structure, is free from spall and other damaging secondary effects. The inherent vibration damping characteristics are most effective in absorbing blast energy and dissipating shock.

Further advantages are that the natural insulating properties mitigate the effects of temperature extremes, and also give a reduced thermal image and IR signature.

Effective repair schemes have been validated, giving an extended useful service life.

The vehicle is available with Land Rover's reliable and efficient TdI diesel engine, or the V8\* petrol engine. The power train is common with that fitted to all Land Rover Defender vehicles, simplifying logistic support and giving high levels of interoperability.

\* Not available in Europe.

## Defender 110 Armoured Patrol

Based on the Defender 100 chassis, the vehicle can carry up to 6 crew with kit.

The monocoque hull is constructed from armour panels cut from ballistically tested and certified steel, providing a high level of protection against small arms. The crew compartment floor is constructed from GRP composites which give excellent protection against grenade fragmentation whilst retaining light weight.

Glass areas are constructed from multi-laminate glass with a polycarbonate inner liner, providing the same level of protection as the armour plate. Doors are provided with an overlap of 30mm, with full ballistic sealing.

An explosion suppressed fuel tank is fitted, and run-flat capability tyres retain stability in the event of a blowout.

A wide range of options is available to tailor the vehicle to customers' specific requirements; these include gun hatches, PA system and grenade launchers.







# **ARMoured PERSONNEL VEHICLE 110 DISCOVERY**

## **BODY TYPE**

Station Wagon	■	—
Discovery	—	■
110-Armoured	■	—

## **BODY SPECIFICATION**

Spare wheel bonnet mounting (optional)	■	—
Seating capacity	2+6	5
Compression moulded composite armour	■	—
Ballistically certified steel armour	■	—
Discretely armoured	■	■

## **ENGINES**

4 Cylinder 2.5 litre diesel direct injected delivering 83 Kw @ 4000 rpm and 265Nm @ 1800 rpm	■	■
3.5 litre V8 petrol delivering 100 Kw @ 5000 rpm and 253Nm @ 2500 rpm (Not available in Europe)	■	—
3.9 litre V8 petrol delivering 135.5 Kw @ 4750 rpm and 314Nm @ 3100 rpm	—	■

## **TRANSMISSION**

5 speed fully synchronised manual gearbox	■	■
4 speed automatic gearbox (ZF)	—	■
2 speed transfer gearbox with a lockable centre differential	■	■

## **SUSPENSION**

Coil springs with telescopic dampers	—	■
Double coil springs with heavy duty axle and telescopic dampers	■	—

## **FUEL CAPACITY**

Rear tank (Litres)	80	88.6
Side + Rear tank (Litres)	54+80	—

## **DIMENSIONS**

Length (mm)	4599	4484
Width (mm)	1790	2189
Height (mm)	2035	1914

## **ELECTRICAL SYSTEMS**

12 volt - 0.8 Kw system	■	■
12/24 volt - 0.8/2.2 Kw system (Not 300Tdi)	■	—
24 volt - 2.2 Kw system	■	—
Full military radio suppression available	■	—

## **MOBILITY**

Approach angle (Kerb Weight*)	50°	50°
Departure angle (Kerb Weight*)	34°	34°
Ramp breakover angle	152°	155°
Minimum ground clearance	215	229
Wading depth (mm)	600	500
Maximum gradient	45°	45°
Turning circle (M)	12.8	11.9

## **WEIGHTS**

Gross vehicle weight (Kg)	3600	2720
Front axle weight (Maximum Kg)	1580	1200
Rear axle weight (Maximum Kg)	2200	1650
Maximum payload (Kg) (Not available for this model)	Refer to GS Vehicle	—

## **BRAKES**

Ventilated front discs - self adjusting
Solid rear discs - self adjusting

<b>TYRES</b>	7.50 x 16	235/70 x R16
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\* EEC Kerb weight which includes full fuel tank and 75Kg driver

■ Applicable  
— Not Applicable

## **GOVERNMENT AND MILITARY OPERATIONS**

Telephone: 0121 700 4580. International: 4421 700 4580. Fax: 0121 742 0450.



Lode Lane, Solihull, England B92 8NW. Telephone: 0121-722 2424.  
Fax: 0121-742 1927. Telex: 338641 Lan Rov G.

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