RG12 Mk4

ARMOURED MULTI-PURPOSE SECURITY VEHICLE



DENEL OMC

Denel OMC









Though originally developed as an internal security and public order vehicle, the RG12 has proven just as effective in numerous other roles, e.g. command applications, cash-in-transit and bullion carriers, tactical rescue vehicles, paramilitary Armoured Personnel Carriers (APC), and surveillance. Over 700 vehicles are in service in various countries worldwide.

The vehicle offers a high degree of armoured protection, excellent on-and off-road mobility, versatility and outstanding in-service economy. The welded all-steel armoured hull is of a monocoque construction with all components welded or bolted to the hull.

The RG12 can be configured for a crew of up to 12 personnel.

The plug-type doors remain close to the hull during opening and closing, facilitating deployment from the vehicle in narrow or restricted areas. Armoured glass windows provide excellent visibility while providing the same ballistic protection as the hull structure. Metal mesh guards provide additional protection to ballistic glass surfaces, headlights, rotating/flashing beacons and other external equipment.

The RG12 Mk4 Features:

- Improved Auxiliary Power Unit provides additional power for improved airconditioning and ancillary equipment
- Improved ergonomics
- Improved power-to-weight ratio
- Provision for Central Tyre Inflation Systems (CTIS) and Anti-Lock Braking System (ABS)
- The RG12 Mk4 is readily adaptable to carry the Mobile Adjustable Ramp System (MARS*) to enhance its capability as a tactical rescue vehicle.
- *MARS, manufactured by Patriot 3 of the USA, facilitates entry into aircraft and buildings for anti-hijack and rescue missions.

Dimensions

Length		6,160 mm
Width (excluding red	ar view mirrors)	2,415 mm
Height		2,814 mm
Wheelbase		3,063 mm
Ground clearance		338 mm
Angle of approach (without scraper	·) 32°
Angle of departure		35°
Mass		
Curb	k	11,000 kg
Payload		*2,000 kg
Gross Vehicle Mass *With 365/80 R20 Mich		13,000 kg
Seating		
Qty		Driver + 11
Performance		
Maximum speed	>	-100 km/h
Gradeability		low-range nigh-range
Turning circle (kerb	to kerb)	14 m
Electrical System		
Voltage		24 v
Alternator		3 x 200 A
Protection Levels		
Ballistic protection	Crew compa Roof @ 30 7.62 x 51 mm 5.56 x 45 mm)° elevation NATO Ball
F		

Engine	
Make	Mercedes-Benz
Model	6R106
Displacement	6,31
Maximum power	180 kW
Maximum torque	780 Nm

Transmission

ITUTISTITISSIOTI	
Make	Allison 2,500 SP
Туре	5-speed automatic
Transfer Case	
Make	GHM RTC-25
, i	ed permanent 4-wheel drive th locking center differential
Axles	
Make	AxleTech series 4,000
Туре	Rigid with hub reduction
Steering System	
Type Hydraulicall	y assisted re-circulating ball
Suspension	
Springs	Semi-elliptic leaf
Shock absorbers	Double-acting hydraulic
Brakes	
Service brakes	Pneumatic front and back
Parking brakes	Pneumatic release

Road Wheels and Tyres

Rim	11.0×20
Tyres	335/80 R20 Michellin XZL
-	or 365/80 R20 Michellin XZL

spring applied on rear axle

RFI Optional

Options

- Powerful air-conditioner (up to 14.3 kW)
- 1 x spare wheel
- Front mounted, pneumatically-operated scraper
- P.A. system
- Roof-mounted area spotlight
- Roof-mounted blue rotating/flashing beacons
- Auto fire extinguisher system

Disclaime

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RG21

MINE PROTECTED VEHICLE



DENEL OMC

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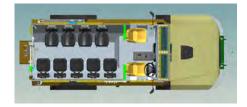


The RG21 combines the battle proven protection and quality of the RG series of armoured vehicles with the maturity and availability of commercially available host vehicle components such as driveline, running gear, dashboard and electronics.

The result is a highly protected vehicle at a very cost effective price, available as a left or right hand drive variant with modular interior and serviceable throughout service centres worldwide.

Key features:

- Proven quality and reliability with a wide range of options based on the large amount of commercially of the shelf (COTS) items used in all the automotive sub-systems.
- All aspects of the Value Chain are embedded in the system design which includes design for cost, manufacturability and supportability.
- Spacious driver and co-driver area with adjustable steering and excellent visibility,
- The vehicle can be easily re-configured for different missions due to the modular interior layout facilitated by the rail mounting system allowing repositioning of seats, radio racks, stretcher brackets and C4I equipment.
- A standard CANNBUS electrical system is fitted allowing easy to maintain diagnostics.
- Can be air transported in a C130 (with preparation).
- The roof interface can be configured for various weapon systems such as a manual turret, remote turret, smoke launchers, cupola or seated one man turret.



Dimensions

Length (with spare wheel)	6,490 mm
Width	2,454 mm
Roof height	2,930 mm
Ground clearance	450 mm
Angle of approach	36°
Angle of departure (step folded) 36	
Transportability	
Air (with preparation)	C130 with turret

Mass and payload	
Tare (excluding options)	9,800 kg
Combat mass (all options)	13,800 kg
Total payload	5,200 kg
GVM (Host truck)	15,000 kg

Interior layout

APC Up to 12 Seats Left or right hand drive

APC, Command and Ambulance variants

Performance

Maximum speed	110 km/h
Gradeability	60%
Turning circle (kerb to kerb)	15 m

Crew Protection

7.62x51 mm **Ballistic** protection NATO and 7.62x39 mm AK, 5.56x45mm SS109 Ball

21 kg TNT @ any wheel Mine protection and 14 kg TNT under the hull without any hull rupture or fatal crew injuries

Engine

•	
Make	Turbo, Intercooled 5.88L
Emmissions / Fuel	Euro 3 / Diesel, 115 I tank
Maximum power 1	76 kW; 240 hP; 2,700 rpm
Maximum torque	810 Nm @ 1,200-
	2,100 rpm

Transmission

Make and gears	21 03000, 0 spa manuai
Steering System	
Model	Adjustable steering wheel

7F 4S800 A and manual Make and agare

Power assisted, ball

Suspension

Туре	Parabolic leat spring
Shock absorbers	Dual/wheel (option)
Anti roll bars F	ront and rear fitted standard
Axles	
Туре	Beam axle, hub reduction
Diff locks	Front and rear (option)
Wheeles and Bro	ikes
Wheels	395/85 R20, steel rims
Service Brake	Drum brakes (meet EEC)
ABS and EBL	Fitted, 2 circuits
Engine brake	Standard exhaust brake
Electrical System	
Electrical Capacit	y 90 Amp, 24 Volt
Control system	Digital (CAN-based)
Vehicle Options	
Air conditioner ar	nd demister - front

Air conditioner and extractor fan - rear Interior seat storage

Rifle brackets

Radio rack and antennae mountings

Transmission PTO drive

Front mounted winch - 9000 kg

Rear Mounted Spare wheel and side winch

Run Flat Inserts (RFI)

Add-on armour and spall liner

Fording kit

Hot climate customization

PA System, search light and roof security lights Blackout system, convoy, marker and IR Lights

Dual battery system

Rear view camera

Pintle mount weapon mount - 7.62 / 5.56 mm

Remote 7.62mm turret

One man manual turret

Smoke launchers

Emergency evacuation stretcher loading system

C130 air transportability preparation kit

External stowage bins

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Туре

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RG31 Mk5 E

MINE PROTECTED ARMOURED PERSONNEL CARRIER



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The RG31 Mk 5E APC is a 4x4 armoured vehicle with a maximum combat mass of 17 000 kg.

The all-steel welded armour monocoque hull protects the crew against small arms fire and anti-tank mine detonations. With permanent 4x4 drive and a two-speed (high and low) transfer gearbox the RG31 Mk 5E APC is easy to drive on road as well as off-road. It is fitted with a 5-speed automatic transmission.

Dimensions (RG31 Mk5 EHM)

Length	7,050 mm
Width	2,478 mm
Height (top of gun ring in	terface) 2,818 mm
Hump radius	4,324 mm
Wheelbase	3,805 mm
Ground clearance Center Axles	340 mm 330 mm
Angle of approach	35°
Angle of departure	32°
Mass	
Tare	14,610 kg
Payload	2,390 kg
Gross Vehicle Mass (GVA	л) 17,000 kg
Seating	
Qty	Driver + 8
Performance	
Maximum speed (limited by tire rating)	100 km/h
Gradeability	60% low-range 25% high-range
Turning circle (kerb to ke	rb) 18 m
Electrical System	
Voltage	24V DC
Alternator	570A or 450A with "high idle" capability

Protection Levels

- Ballistic protection as per customer requirement
- Mine and IED protection
- Highly effective wide spectrum protection
- Spall liner solution available

Engine

Make and model	Cummins QSB
Displacement	6,700 cm ³
Maximum power (DIN) 205 kW @ 2,500 rpm
Maximum torque (DIN) 990 Nm @ 1,600 rpm - 1,800 rpm
Transmission	
Make	Allison 3000 SP
Туре	5-speed automatic
Transfer Box	
Make and model	AxleTech BT600R
Steering System	
Make	ZF
	ly assisted recirculation ball Drive, 2.5 turns lock to lock Power Cylinder fitted
Axles	
Make and model	AxleTech International series 4000 (5G)
Brakes	
Parking brake	Pneumatic release spring applied on rear axle
Road Wheels and	Tyres
Tyres	Michelin 395/85-R20 XZL with RFIs and CTIS
Rim type	10 x 20

Disclaime

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RG31 Mk5 EHM

MINE PROTECTED ARMOURED PERSONNEL CARRIER



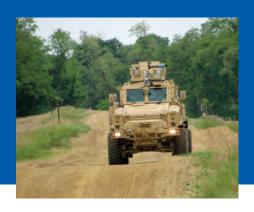
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The RG31 Armoured Personnel Carrier (APC) is the most mature combat-proven mine protected vehicle available.

The RG31 is a 4x4 vehicle with a V-shaped hull that protects the crew against anti-tank mine detonations and Armour-Piercing (AP) rifle fire.

The RG31 is successfully deployed with peacekeeping and military forces in numerous theatres. The vehicle boasts excellent levels of protection against landmines and IEDs, making this a highly effective multi-role armoured vehicle.

The RG31 is available as an APC or Utility Vehicle. The latter can be utilised for cargo or the modular mounting of a variety of weapon systems, such as 81 mm mortar, 106 mm RCL and 20 mm cannon. All variants are also readily adaptable to a variety of other applications, including command and control, rapid intervention, urban or rural patrols and Explosive Ordinance Disposal (EOD).

The RG31 has a V-shaped, monocoque welded steel hull. Access is through a wide rear door, as well as side doors, while roof hatches ensure emergency access and egress.

The APC variant accommodates a driver and up to nine crew. The powerful 221 kW diesel engine, all wheel drive and effective suspension system allow for excellent on-and off-road mobility. The utilisation of commercial off-the-shelf components facilitates easy maintenance, repair and support.

Dimensions

2	
Length (including jerry co	an) 7,000 mm
Width	2,500 mm
Height (top of gun ring in	terface) 2,800 mm
Hump radius	3,276 mm
Wheelbase	3,805 mm
Ground clearance Center Axles	490 mm 460 mm
Angle of approach	36°
Angle of departure	36°
Mass	
Tare (including level 3 ballastic	16,000 kg c protection)
Payload	2,600 kg
Gross Vehicle Mass (GVM	18,600 kg
Seating	
Qty	Driver + 7
Performance	
Maximum speed (limited by tire rating)	100 km/h
Gradeability	60% low-range 25% high-range
Turning circle (kerb to ker	b) 16,2 m
Electrical System	
Voltage	24V DC
Alternator	570A or 450A with "high idle" capability
Protection Levels	

- Ballistic protection as per customer requirement
- Mine and IED protection
- Highly effective wide spectrum protection
- Spall liner solution available
- RPG net solution available

Engine

Make and model	Cummins QSB
Displacement	6,700 cm ³
Maximum power (DIN) 22	?1 kW @ 2,500 rpm
Maximum torque (DIN)	1,100 Nm @ 00 rpm - 1,800 rpm
Transmission	

Make	Allison 3000 SP
Туре	6-speed automatic
Transfer Box	

Make and model	Denel (Gear Ratio)
	RGR 17Ť

Туре 2-speed, permanent 4-wheel drive

Steering System

Hydraulically assisted recirculation ball LH Drive, 2.5 turns lock to lock Power Cylinder fitted

Axles

AxleTech series Make and model 4500 ISAS Independent Suspension Pneumatic, dual circuit disc brakes with ABS

Brakes

Parking brake	Pneumatic release	
Ü	spring applied on rear axle	

Road Wheels and Tyres

Tyres	Michelin 395/85-R20 XZL with RFIs and CTIS
Rim type	10 x 20

Other Variants

- RG31 Mk5 EM (Oshkosh TAK4)
- RG31 Mk5 E (Solid beam axle, 275hp)
- RG31 Mk6 MMP (Mobile Morter Platform)

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RG32M LTV

MINE PROTECTED LIGHT TACTICAL VEHICLE



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Atlas

The RG32M LTV is an enhanced mine protected variant of the successful RG32M Patrol Vehicle, that provides even better crew safety and blast survivability.

The latest variant incorporates a V-shaped hull that protects the crew against Armour-Piercing (AP) rifle fire and Anti-Tank (AT) mine detonations.

The RG32M LTV has a Gross Vehicle Mass (GVM) of only 9.5 tons, classifying it as a light mine protected patrol vehicle that is highly mobile and agile.

The Light Tactical Vehicle (LTV) configuration offers more internal crew space than the conventional RG32M, due to its 200 mm wider hull and 50 mm increased headroom. Windows are externally mounted, providing improved side-blast protection, while also freeing up space inside the cabin. It also features a newly designed load bay, accommodating a variety of mission-specific equipment, and enhancing the vehicle's versatility.

With its high level of COTS (commercial-off-the-shelf) content, the RG32M LTV provides a cost effective through-life solution, with a minimal logistics footprint and the ability to be reconfigured with customer-required mission equipment.

Dimensions

Length (front of winch to rear	6,000 mm
Width (across tyre outside)	2,235 mm
Height (to top of roof)	2,190 mm
Wheelbase	3,340 mm
Ground clearance (under diff)	430 mm
Angle of approach	42°
Angle of departure	30°
Mass	
Gross Vehicle Mass (GVM)	9,500 kg
Tare	8,300 kg*
* Depending on options fitted	
Seating	
	mmander + 2*
* Depending on options fitted	
Performance	
Maximum speed (road)	>110 km/h
Gradeability	60% low-range
Turning circle (kerb to kerb)	17 m
Protection Levels	
Ballistic protection STA	NAG LEVEL 1 - Base vehicle
7.62x39mm API - with a	
Mine protection 6 kg TNT u	nder any wheel

Engine

MakeSteyr M16SCI turbocharged intercooled

Maximum power (DIN) 200 kW @ 4,000 rpm

or under the hull centreline

Maximum torque (DIN) 610 Nm @ 1,800 rpm

Transmission

Make	Allison \$1000	
Туре	5-speed automatic	

Transfer Case

Make

Туре	2-spee	2-speed gear drive (shift on the fly)	
Steering System			
Туре		Hydraulically assisted	
Axles			
Front		Portal axle with selectable diff lock and CTIS-ready	
Rear		Portal axle with selectable diff lock and CTIS-ready	
Suspensi	on		
Springs	Coi	l springs, longitudinal arms and panhard rods	
Shock ab	sorbers	Double-acting hydraulic	
Brakes			
Service b		Dual circuit hydraulic with rcuit ABS disc front and rear	
Parking b	pne	Spring-applied, eumatic-release, disc brake ed on rear axle input pinion	

Road Wheels and Tyres (standard)

Rim type	11.0 x 20" split rim
Tyre size	335/80 R20

Options Available

- EMC approved electrical system
- Over pressure NBC system
- Climate control system for Middle-East
- Central tyre inflation system
- Different weapon systems
- C4i interfaces
- Cargo pod can be customised

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RG32M

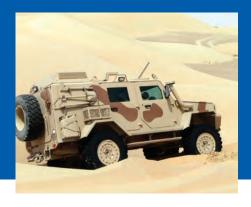
MINE HARDENED ARMOURED PATROL VEHICLE



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The versatile RG32M family of armoured utility vehicles is capable of fulfilling most roles that require a balance of protection and mobility.

The RG32M fulfils a wide spectrum of command, liaison and scouting roles. In a typical patrol mode, it can transport five crew members with their kit, combat stores and special-purpose equipment. A full armoured body variant, which seats up to seven crew, is also available. This includes additional rear protection extended over the rear axle.

Access and egress is through side doors and roof-mounted hatches. Armoured windows provide excellent visibility. High levels of tactical mobility are achieved through powerful 135 kW engine, 5-speed automatic transmission and portal axles. Two RG32Ms can be transported in a C-130 aircraft.

Crew and vehicle survivability is achieved through applied systems engineering techniques and by utilising unrivalled knowledge base gained from vehicle operations in Africa, Asia, Middle-East and Balkans, in addition to rigorous and systematic field-testing in South Africa, the UK, Sweden and the Middle-East.

Dimensions

Length (to rear of	spare wheel)	5,330 mm
Width (across tyre	e outside)	2,175 mm
Height (to top of	roof)	2,180 mm
Wheelbase		2,900 mm
Ground clearand	ce (under diff)	430 mm
Angle of approach	ch	53°
Angle of departu	re	33°
Mass		
Gross Vehicle Mo	ass (GVM)	9,500 kg
Tare * Depending on option	ons fitted	7,500 kg*
Seating		
Qty * Depending on opti		*Driver + 4 + 2

Performance		
Maximum speed (road)	>110 km/h	
Gradeability	60% low-range	
Turning circle (kerb to kerb)	17 m	

Protection Levels

Ballistic protection 7.62 x 51 mm NATO ball 5.56 x 45 mm SS109 NATO ball 7.62 x 51 mm AP with appliqué armour

Mine protection	DM31 fragment mine
Engine	

MakeSteyr M16TCA turbocharged intercooled Maximum power (DIN)*135 kW @ 3,800 rpm Maximum torque (DIN) 406 Nm @ 1,800 rpm * Different power settings available on request

Transmission

Make	Allison \$1000
Туре	5-speed automatic
Transfer Case	е
Make	Atlas
Type 2-	speed gear drive (shift on the fly)
Steering Syst	em
Туре	Hydraulically assisted
Axles	
Front	Portal axle with selectable diff lock and CTIS-ready
Rear	Portal axle with selectable diff lock and CTIS-ready
Suspension	
Springs	Coil springs, longitudinal arms and panhard rods
Shock absorb	pers Double-acting hydraulic
Brakes	
Service brake	Dual circuit hydraulic with 4-circuit ABS disc front and rear

Road Wheels and Tyres (standard)

Rim type	11.0 x 20" split rim
Tyre size	335/80 R20

Spring-applied, pneumatic-release, disc brake

operated on rear axle input pinion

Options Available

- C41 Interfaces

Parking brake

- Central Tyre Inflation System

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RG41

WHEELED ARMOURED COMBAT VEHICLE



DENEL OMC

Denel OMC

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DENEL VEHICLE SYSTEMS







RG41 is a new generation combat vehicle, that meets demanding mobility, protection and firepower requirements, with the emphasis on combat power.

The RG41 has a high payload capacity, a class leading protection to weight ratio and a unique field-repairable hull.

RG41 is designed as an affordable and highlymobile, wheeled combat vehicle, suitable for modern warfare.

Key features include:

- A modular, field-repairable mine protected design
- High mobility with good ride comfort
- Best value for money in comparison to existing similar products
- ITAR free design comprising mainly of COTS (commercial-off-the-shelf) components
- High payload capacity (10 tonnes)

High mobility is achieved through the inclusion of a specifically adapted hydro-pneumatic suspension.

Dimensions

Length	7,780 mm
Width (hull)	2,800 mm
Height (hull)	2,380 mm
Hump radius	900 mm
Wheelbase	1,693 mm (1st – 2nd axles) 2,257 mm (2nd – 3rd axles) 1,550 mm (3rd – 4th axles)
Ground clearar	nce 440 mm
Angle of approa	ach 64°
Angle of depart	ure 54°

0 1	
Mass	
Curb	18,200 kg
Payload	9,800 kg
Gross Vehicle Mass (GVM)	28,000 kg

Seating

Qty 11 (1 x driver, 1 x vehicle commander, 1 x gunner, 1 x section commander and 7 x section crew)

Mine protection

IED protection

out
4 point harness
100 km/h
70%
kerb) 19 m
24 v
3 x 200 A
STANAG 4569 Level 2 (Optional to Level 4/5)

STANAG 4569 Level 4A/3B

Protection level undisclosed

(Optional to Level 4B)

Engine

Liigiiic	
Make	Deutz
Model	2015TCD V6
Displacement	121
Maximum power	(DIN) 390 kW @ 2,100 rpm
Maximum torque	(DIN) 2,130 Nm @ 1,300 rpm
Transmission	
Make	ZF5HP902
Туре	5-speed with integral 2-speed drop-down
Transfer Box	
Make	Denel (Gear Ratio)
Туре	17,000 series
Steering System	
Туре	Twinsteer,power-assisted, fully-integral system
Wheel Heads	
Make	AxleTech
Suspension	
Туре	Independent
Springs	Hydro-pneumatic strut
Shock absorbers	Hydraulic
Brakes V	Vith integral shock absorber
Main brake systen	ns Pneumatic disk brakes with ABS
Parking brake disc	Spring activated, air release brakes on all 4 rear wheels

Road Wheels and Tyres

Rim type	10.00R20 Aluminium
Tyres	16.00R20 Michelin XZL
RFI	Fitted (100 km range @ 50 km/h)

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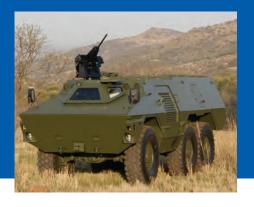




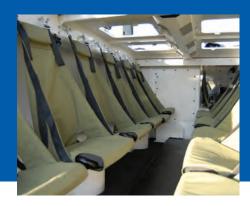
DENEL OMC











The iKlwa* is a military fighting vehicle developed from the battle-proven Ratel Infantry Combat Vehicle.

This extremely cost-effective transformation, incorporates upgrades to existing elements combined with modern technology insertion. It is not merely a make-over but a major improvement on the Ratel, that increases the vehicle's capacity in almost every operational aspect. Additional, new design features make iKlwa the perfect support weapons and logistics platform.

For existing Ratel users, the iKlwa conversion offers a class-leading, modern fighting vehicle, without the costly need to change training packages doctrine or logistics.

The modular roof system, high internal volume and variable payload capacity makes it suitable for Armoured Personnel Carriers (APC), Infantry Fighting Vehicles (IFV) and gun platform roles. For large calibre artillery systems, a hydraulic outrigger system can be provided.

The distinctive Ratel nose with its near-upright driver's windscreen can be retained or replaced with a sloping section with a driver's hatch and episcopes.

* Named after the legendary short stabbing spear inventedfor his soldiers by Zulu King Shaka, the iKlwa incorporatesthe best battle-proven elements of the Ratel with state-of-the-art technology and design expertise to produce a uniquewheeled defence and fighting vehicle for the 21st century.

Dimensions

Length (to rear of spare whe	el) 7,100 mm
Width	2,520 mm
Height (to top of roof)	2,400 mm
Wheelbase	2,800/1,400 mm
Ground clearance (under transfer case)	455 mm
Angle of approach	42°
Angle of departure	48°
Hump radius 1-2 axle	1,655 mm
Mass	
Gross Vehicle Mass (GVM)	23,500 kg
Tare	14,400 kg
Seating	
Qty *APC Variant	*Driver + 15
Performance	
Maximum speed (road)	>110 km/h
Gradeability	60%
Turning circle (kerb to kerb)	13,5 m
Protection Levels	
7.62 x 5.56 x 45 mm NA STANAG 4	AG 4569A level 1 51 mm NATO ball TO ball @ 30 mm 569A up to level 5

with appliqué armour

STANAG 4569B 2A Mine protection STANAG 4569B 3A and 3B with additional packages

Engine

_	
Make	Cummins ISL turbocharged intercooled
Maximum pov	ver (DIN) 336 kW @ 2,200 rpm
Maximum tord	ue (DIN) 1,630 Nm @ 1,600 rpm
Transmission	
Make	RENK HSV106
Туре	6-speed automatic
Steering Syste	m
Туре	Hydraulically assisted
Axles	
Front axle	MAN VA7/09 Beam axle with selectable diff lock
Rear axles	MAN H08 Beam axle with selectable diff lock
Suspension	
Springs lo	Progressive rate coil springs, ngitudinal arms and wishbones
Shock absorbe	ers Double-acting hydraulic
Brakes	
Service brake	Dual circuit hydraulic/ pneumatic
Parking brake	Spring-actuated on rear axles
Road Wheels	and Tyres (standard)
Rim type	10.0 x 20" split rim
Tyre size	Michelin 16.00R20XZL or 14.00R20XZL

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