

RG31 Mk5 EHM

MINE PROTECTED ARMoured PERSONNEL CARRIER



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DENEL VEHICLE SYSTEMS



RG31 MMP (Mobile Mortar Platform)



Photographer: MCC Michael D. Heckman



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

Length (including jerry can)	7,000 mm
Width	2,500 mm
Height (top of gun ring interface)	2,800 mm
Hump radius	3,276 mm
Wheelbase	3,805 mm

Ground clearance	
Center	490 mm
Axles	460 mm

Angle of approach	36°
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Angle of departure	36°
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Mass

Tare	16,000 kg
(including level 3 ballastic protection)	

Payload	2,600 kg
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Gross Vehicle Mass (GVM)	18,600 kg
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Seating

Qty	Driver + 7
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Performance

Maximum speed	100 km/h
(limited by tire rating)	

Gradeability	60% low-range
	25% high-range

Turning circle (kerb to kerb)	16,2 m
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Electrical System

Voltage	24VDC
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Alternator	570A or 450A with "high idle" capability
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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
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Displacement	6,700 cm ³
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Maximum power (DIN)	221 kW @ 2,500 rpm
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Maximum torque (DIN)	1,100 Nm @ 1,600 rpm - 1,800 rpm
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Transmission

Make	Allison 3000 SP
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Type	6-speed automatic
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Transfer Box

Make and model	Denel (Gear Ratio) RGR 17T
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Type	2-speed, permanent 4-wheel drive
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Steering System

Make	ZF
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Type	Hydraulically assisted recirculation ball LH Drive, 2.5 turns lock to lock Power Cylinder fitted
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Axles

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

Parking brake	Pneumatic release spring applied on rear axle
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Road Wheels and Tyres

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

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

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