

MINE PROTECTED VEHICLES | RG-31 (Mk3 & Mk5)

BAE Systems, Land Systems OMC | Republic of South Africa

GENERAL DESCRIPTION

The *RG-31 Mk3* and *Mk5* are derived from the successful RG-31 and feature a military wiring harness, central tyre inflation and several other new features. The RG-31 is a 4 x 4 mine-protected armoured vehicle, also available as an armoured personnel carrier (APC) or utility vehicle. The Mk3 has a 125 kw diesel engine and the Mk5 a 205 kw diesel.

All variants are readily adaptable to other applications including ambulance, explosive ordnance disposal and humanitarian demining. Access is through a wide rear door while roof hatches ensure emergency access and egress. Both the Mk3 and Mk5 are available with additional front doors. The APC variant can take a driver and up to nine crew members.



Mk3

SPECIFICATIONS

The all-steel, welded armour, monocoque V-shaped hull protects the crew against small arms fire and AV mine detonations. According to the manufacturer, the vehicle is blast resistant against the detonation of a double TM57 AV mine (the equivalent of 14 kg TNT) under any wheel, or a single TM57 under the hull.

With a 5-speed automatic transmission, permanent 4 x 4 drive and a two-speed (high and low) transfer case the RG-31 is easy to drive, both on and off road.

VEHICLES IN USE TO DATE

More than 580 RG-31 mine protected vehicles (several variants) have been sold, including to the US and Canadian armies. Through General Dynamics Land Systems Canada, Land Systems OMC has sold 624 RG-31 Mk5E MRAP vehicles to the US Marine Corps.



Mk5

ENGINE, FUEL AND OIL

- > The Mk3 is equipped with a Mercedes Benz diesel engine with 125 kw.
- > The Mk5 is equipped with a Cummins QSB diesel engine with 205 kw.

No more information was provided by the manufacturer.

FACTORY SUPPORT

No information provided.

MAINTENANCE AND SUPPORT

Commercial off-the-shelf components facilitate maintenance, repair and support.

TESTS AND EVALUATIONS

No information provided.

REPORTED LIMITATIONS AND STRENGTHS

Limitations

No information provided.

Strengths

- > Protection against AP and AV mines.
- > Variety of uses.

A. DIMENSIONAL DATA

1. Length total	6,000 mm 6,600 mm
2. Width total	2,470 mm
3. Height Roof	2,650 mm 2,727 mm
4. Mass Basic vehicle	9,000 kg 10,500 kg
5. Payload	1,200 kg 3,700 kg
6. Crew	9
7. Gross Vehicle Weight	10,200 kg 14,200 kg
8. Ground clearance	322 mm 389 mm

B. DRIVING SPECIFICATION

9. Wheels Drive train	Rim type 11.0 x 20, 335/80 R20 Michelin XZL or 365/80 Michelin XZL
10. Fording capability	Not given
11. Hill climbing ability Side slope	Angle of approach: 35° 32° Angle of departure: 45° 40°
12. Maximum speed	105 km/h
13. Turning circle diameter	18 m kerb to kerb

C. SYSTEM SPECIFICATION

14. Engine Fuel Oil	Mercedes Benz OM 366T with 125 kw Cummins QSB with 205 kw
15. Fuel capacity	Not given
16. Fuel consumption	Not given
17. Range	Not given
18. Cooling system engine	Not given
19. Oil capacity	Not given
20. Hydraulic oil capacity	Not given
21. Brakes	Dual circuit pneumatic, drums front and rear Dual circuit pneumatic disc front and rear with ABS
22. Gear box	5-speed automatic transmission
23. Vehicles of use	More than 1,200
24. Location of use	Not given

D. COMFORT AND SECURITY

25. Air conditioning	Yes
26. Operator comfort	Not given
27. Armour	7.62 x 51 mm NATO Ball, 5.56 x 45 NATO Ball, AP and AV mine protection / 7.62 x 39 mm API BZ, AP and AV mine protection
28. Remote controlled	N/A

E. COST

29. Cost of system	On request
30. Other costs	On request
31. Transportation	Self driven
32. Availability for hire	On request

