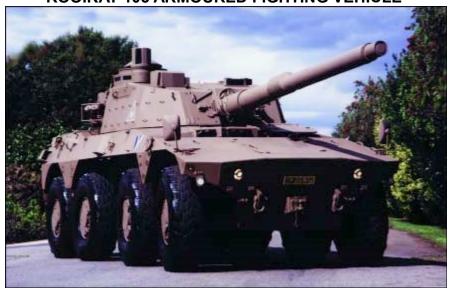
ROOIKAT 105 ARMOURED FIGHTING VEHICLE



SPECIFICATIONS

Crew 4
Configuration 8 x 8
Combat weight 28 500 kg
Power-to-weight ratio 20 hp/t

Length 8,80 m (with 105 mm gun)

Width 2,9 m
Height 2,8 m
Ground clearance 0,43 m
Track width 2,415 m
Angle of approach / departure 45° / 60°
Max road speed 120 km/h
Cross country speed 60 km/h

Acceleration 0 to 30 km/h in 9 seconds

Fuel capacity 540 litres Max road range 1 000 km Fording depth 1,5 m

Gradient 70% (forward and reverse)

Side slope 30%

Vertical obstacle 1 m (soil); 0,6 m (concrete)

Trench crossing 2 m (crawl speed) 1 m (60 km/h)

Engine V-10 water cooled turbocharged diesel developing 417 kW

Transmission Automatic; 6 forward and 1 reverse gears

Steering Power assisted, front four wheels
Turning radius 25 m curb to curb (tarred surface)

15 m (tactical, using brake steering)

Suspension Internally driven trailing arms, coil springs and shock-absorbers

Tyres 16,00 x R20 radial with run-flat inserts

Brakes Dual-circuit drums on all eight wheels, retarder on transmission,

exhaust brake, crawl brake, park brake

Electrical system 24 V (6 batteries in 2 banks)

Armament 105 mm GT7 high-pressure, low recoil main rifled gun

7,62 coaxial machine gun

Smoke-laying equipment 8 x 81 mm smoke grenade launchers, exhaust smoke screen generator

(main 32) (16 rounds in turret). Standard NATO (105 x 617 mm) high

Ammunition pressure ammunition (APFSDS, HESH, CANISTER, APDS, HEAT

and HE)

2 800 (7,62 mm MG) 8 smoke grenades

Armour protection against 23 mm ammunition over 60° frontal arc,

Protection remainder against 7,62 mm ammunition

Full solution integrated digital DLS Lyttelton proprietary system

Fire control operated by commander or gunner affording fire on the move and

hunter-killer capability

Gun control +28 V DC brushless motor system with inertially stablised digital

control and manual back-up

Traverse 360°.

Gun elevation/depression +20°/-10°

SIGHTING

Gunner Primary stabilised periscope sight with laser range finder intergraded

into day channel plus thermal imager.

Telescopic articulated auxiliary sight back-up

Commander Primary stabilised periscope panoramic sight with night vision

(optional)

Display of gunner's thermal image

Observation cupola with 360° direct vision

Loader Direct vision observation episcopes

NBC System Optional

Denel Landsystems, SA 2010