

ROOIKAT 105 ARMOURED FIGHTING VEHICLE



DENEL LAND SYSTEMS



SPECIFICATIONS

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| 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 |
| Ammunition | (main 32) (16 rounds in turret). Standard NATO (105 x 617 mm) high pressure ammunition (APFSDS, HESH, CANISTER, APDS, HEAT and HE) 2 800 (7,62 mm MG) 8 smoke grenades |
| Protection | Armour protection against 23 mm ammunition over 60° frontal arc, remainder against 7,62 mm ammunition |
| Fire control | Full solution integrated digital DLS Lyttelton proprietary system operated by commander or gunner affording fire on the move and hunter-killer capability |
| GUN CONTROL | +28 V DC brushless motor system with inertially stabilised 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 |

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