

## 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 pressure ammunition (APFSDS, HESH, CANISTER, APDS, HEAT and HE)
Ammunition	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
<b>Gun control</b>	+28 V DC brushless motor system with inertially stabilised digital control and manual back-up
Traverse	360°.
Gun elevation/depression	+20° / -10°
<b>SIGHTING</b>	
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 episopes
NBC System	Optional

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