

DNG - MODULAR ARMOURED RECOVERY VEHICLE (1)



GIAT INDUSTRIES

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Mission

The E-FORCE system has been designed by Giat Industries as an aid to deployment and for countermobility actions.

This includes modular vehicles, whose mobility, protection and information systems meet the combat support requirement of armoured units.

The E-FORCE solution provides:

- higher operational pace,
- instant in-the-field response to combat situations,
- extensive growth potential,
- reduced life cycle-cost.

The E-FORCE system includes the DNG Armoured Recovery Vehicle and the EPG Main Engineer Vehicle. These are based on the chassis of the LECLERC MBT and share with the main battle tank the key subassemblies (power pack, running gear, air-conditioning system and NBC protection, hydraulic and electrical power generation or FINDERS® onboard Battlefield Management System).

The DNG and the EPG can adapt the equipment carried to the operational mission: K2D three-mode mineclearing kit, general purpose engineer equipment, MINOTAUR scatterable anti-tank mine system or tools and spare parts - including a complete power pack.

In its main role, the DNG recovers all MLC 70 class main battle tanks that are immobilised on the battlefield. It can tow them to the maintenance workshop or carry out autonomous in-the-field repairs.

User-friendly solutions have been given top priority: onboard arrangement for effective manning, armoured windscreen for easier driving, air conditioning or dish-warmer for enhanced crew comfort.



DNG - MODULAR ARMoured RECOVERY VEHICLE (2)

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Specifications

Armoured vehicle								
Crew	3 (commander, driver, operator/mechanic) Foldable seat for fourth crew member							
Combat weight	60 tonnes							
Military load class	< 65							
Rated power	1,500 hp							
Power-to-weight ratio	25.5 hp/t							
Engine	MTU 883 V12 turbocharged diesel							
Transmission	RENK HSWL 295 TM, automatic, with 5 forward and 3 reverse gears							
Maximum speed	Road: 72 km/h - Cross-country: > 55 km/h - Reverse: 38 km/h							
Fuel capacity	Maximum road range	Length (overall)	Width (at tracks)	Height (roof)	Ground clearance (nominal)	Vertical obstacle	Trench	Fording without preparation
1,500 litres	500 km	9.51 m	3.38 m	2.7 m	0.49 m	0.5 m	3 m	1 m
Suspension	Hydropneumatic (locking actuators for rear suspension units during crane operations)							
Tracks	Tensioning system controlled from the driver's station							
Roof-mounted machine gun	12.7 mm MG manually operated from the commander's station							
Ammunition	300 (of which 100 ready-use) x 12.7 mm rounds							
GALIX protection system	20 launcher tubes (multi-band screening smoke and close-defence grenades)							
Survivability	Hydraulic compartment isolated from the crew. Automatic fire detection and suppression system in crew, powerpack and hydraulics compartments							
Observation	360° panoramic ring of day periscopes for the commander Driver's image intensifier periscope							
Air-conditioning system	Hydraulically-operated system with collective NBC protection							
Radio	Frequency hopping radio set							
Intercom	At the 3 crew stations							
Navigation	Hybrid or GPS navigation system							



DNG - MODULAR ARMoured RECOVERY VEHICLE (3)



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Specifications

Basic recovery equipment	
Main capstan winch capacity	350 kN (1,050 kN with triple pull)
Cable length	160 m
Auxiliary drum winch capacity	15 kN
Cable length	230 m
Crane capacity	300 kN
Jib traverse	270°
Maximum height below the hook	7.7 m
Auxiliary power unit	Removable diesel-electric power generator
Dozer and anchoring blade width	3.42 m
Tools	Set of shackles, pulleys, cables and towing bars Cutting set
Carrying capacity on the hull rear	Complete LECLERC power pack

Other modules	
K2D three-mode mineclearing kit - Magnetic mineclearing - Mechanical mineclearing - Pyrotechnical mineclearing - Marker system	(see K2D entry) DEMETER electromagnetic duplicator FWMP full width mine plough (Pearson Engineering) PW-LWD rocket-propelled explosive charges (Pronit) PATHFINDER poles firing system (Pearson Engineering)
MINOTAUR anti-tank mine system - Scattering platform - Deployment	(see MINOTAUR entry) 600 scatterable anti-tank mines 250 m x 2,400 m anti-tank barrier in less than 5 min.
Engineer Equipment	(see EPG entry)

Status

In production.

