VRF

Design and Performance Characteristics

CATEGORY	CHARACTERISTIC	DESCRIPTION
Vehicle Type	ROLE	Ultra-light Military four-wheel-drive personnel carrier
	DRIVE CONFIGURATION	Full time 4×4
	INTENDED USERS	Armed forces / Law enforcement
Design Philosophy	MISSION FOCUS	Crafted for military operational requirements in all details
	STANDARD COMPLIANCE	Designed with consideration of NATO and MIL standards
	CREW PROTECTION	Focus on safety, ergonomics, and operational sustainability
Interior & Ergonomics	CREW CONFIGURATION	Designed around fully equipped soldiers
	ENTRY / EXIT	Optimized for easy and rapid entry and exit
	COMFORT	Emphasis on driving comfort in off-road conditions
	STORAGE	Under-seat cargo compartments for NATO-standard ammunition boxes
Mobility & Terrain Capability	OFF-ROAD CAPABILITY	Forests, narrow passages, marshes, and rough terrain
	WATER FORDING	Water crossings up to 1 m depth
	TYRE SYSTEM	Central Tyre Inflation System (CTIS), Run-flats
	RECOVERY	Integrated winch, towing facilities
Maintenance & Logistics	MAINTENANCE CONCEPT	Designed for easy maintenance and low operating costs
	PARTS COMMONALITY	High level of unified components to reduce spare part inventory level
	FIELD REPAIRABILITY	Parts designed to be manufacturable in local workshops if supply chains are disrupted
Unified Components	SUSPENSION ARMS	All 8 suspension arms identical / all 4 tie rods
	UPRIGHTS	All 4 uprights identical
	SHOCK ABSORBERS	All 4 shock absorbers identical
	BRAKE SYSTEM	All 4 brake calipers and brake discs identical
	DRIVETRAIN	All 4 driveshafts identical
Electrical System	VOLTAGE	12 / 24 V system
	POWER OUTLETS	Optional 24 V NATO charging sockets
Signature Management	LIGHTING	Black-out lighting
	INTERIOR LIGHTING	Mil-spec lighting with red/white dimming
Transportability	AIR DELIVERY	Suitable for air-drop operations
Weapon Integration	RING MOUNT	Dedicated position for .50 cal ring-mount
	MACHINE-GUN SUPPORT	Swing arm for 7.62 mm machine gun
Cargo & External Mounts	CARGO CAGE	Rear cargo cage for equipment and additional fuel/ water containers
	ANTENNAS	NATO-spec antenna brackets and holders
	TOOL MOUNTS	Brackets for spare wheel, spade, and axe
	WEAPON STORAGE	Brackets for anti-tank weapon
Optional Systems	WEAPON MOUNTS	Ring-mounts for 7.62 mm and 12.7 mm machine guns
	COMMUNICATIONS	Radio equipment brackets and antenna mounts
	ELECTRONIC SYSTEMS	Anti-drone systems
	CUSTOMIZATION	Other mission-specific systems available on request

Technical Characteristics

CATEGORY	PARAMETER	SPECIFICATION
Performance	MAXIMUM SPEED	160 km/h
	WATER FORDING	Up to 1.0 m
	DRIVING MODES	Full-time 4×4 (High / low range)
Powertrain	ENGINE POWER	200 kW
	ENGINE TORQUE	600 Nm
	GEARBOX	8-speed automatic
	TRANSMISSION	Full-time 4×4, optional limited-slip differential (LSD)
Mobility	WHEELS	285/75 R17 or 37×12,5 R17
	TYRES	Optional run-flat
	TYRE SYSTEM	Central Tyre Inflation System (CTIS)
	DRIVING RANGE	900 km
Suspension & Chassis	SUSPENSION TYPE	Independent, double wishbone
	WHEEL TRAVEL	350 mm
	GROUND CLEARANCE	400 mm
Dimensions & Weight	GROSS VEHICLE WEIGHT (GVW)	3,200 kg
Crew & Payload	SEATING CAPACITY	4 + 1
Electrical System	VOLTAGE	12 V / 24 V
	SPECIFICATION	Military-grade (mil-spec)
Lighting & Signature	EXTERIOR LIGHTING	Full black-out lights function
Recovery & Combat Features	RECOVERY	Integrated winch
	WEAPON MOUNTING	Ring-mount for machine gun
Maintenance	SERVICE CONCEPT	Easy service, modular design
Parts Commonality	UNIFIED COMPONENTS	Suspension arms, uprights, shock absorbers and springs, steering arms, brake calipers, brake discs, driveshafts (identical on all corners)
Special Capabilities	MISSION ADAPTABILITY	Basis for medical evacuation, radio communication, drone command, air defence variants
Other Variants		Closed version with doors and 6×6 version

VR CARS

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