

VBCI MK2 FAMILY

Proven Combat Abilities

KNDS



/ VBCI MK2 FAMILY

The 8x8 Combat Proven Reference

VBCI MK2 constitutes the latest evolution of the combat-proven French Infantry Fighting Vehicle. The only native IFV, VBCI has proven itself in numerous combat operations and become the main combat system of the French Army. The MK2 version takes advantage from the lessons learned from these engagements to offer major improvements. VBCI MK2 is the optimized balance between protection, mobility and payload. From high-intensity combat missions to peacekeeping duties, the VBCI MK2 is the most efficient and versatile combat system of its generation.

Unrivalled overall survivability

- Ballistic protection provided by the aluminium alloy hull with modular add-on armour including top attack STANAG 4569, Level 4 (AEP55)
- High protection against mines STANAG 4569, Level 4A-4B (AEP55)
- Protection against IEDs (blast, splinters)
- Protection against RPG (modular add-on armour)
- Stealth (lowest radar and thermal signature)
- CBRN protection

Combat proven

- Deployed in Afghanistan, Lebanon, Central African Republic and Mali
- High efficiency and reliability in any type of field and with the most extreme weather conditions
- High firepower in every condition
- High mobility performance of a tracked vehicle off-road and of a wheeled vehicle on road
- Air transportable: C17; A400M
- Crew comfort for a fully equipped Infantry squad (Air conditioning system, large interior volume, suspension,...)

Innovative service support concept

- Low "Life Cycle Cost" resulting from high reliability, optimized maintenance and the use of MOTS/COTS components.
- Powerpack
- Firing and driving simulators
- Logistic support service up to performance based contracts

A range of vehicles based on a same platforme

- Designed for long-term growth potential (survivability, payload, power supply) for a total combat gross vehicle weight up to 32 tons

Variants:

- Infantry Fighting Vehicle (IFV) with 25mm RWS, RCT 40mm, 30mm turrets;
- Armoured Fighting Vehicle (AFV) with a 105mm turret;
- Armoured Personnel Carrier (APC) with a 12,7 or 20mm RWS;
- Self-Propelled 120mm Mortar Carrier (SPM);
- Command Post;
- Armoured Ambulance;
- Armoured Recovery Vehicle.



/ VBCI features and specifications

Weight And Dimensions

Empty weight: 19 tons

Payload: Up 13 tons

Dimensions (chassis):

- Length: < 8m
- Width: < 3m

Height: < 2.5m

Usable interior volume: Greater than 13m³

Carrying capacity: up to 11 men

Protection

Ballistic:

- Modular up to 30mm APFSDS ammunition
- Light alloy hull, internal splinter protection, modular add-on armour plates

Mines/IED's: Superior to STANAG 4569 AEP 55 Level 4 Mine blast absorption modules. Anti-blast seat

RPG: Optional Kit

Periscopes protection: Protected from laser

Fire suppression system: Engine and crew/personnel compartment

Missile protection: Infrared decoy (optional)

Self-protection: Smoke grenade launcher systems (optional)

Vetronic Systems

Battle Management System: Open electronic architecture (CAN, Ethernet) ready to be equipped with all C4I systems

Mobility

Running gear:

- 8-wheel drive, 2 front steering axles
- 1 rear steering axle (optional)
- 1 axle declutchable for road use

Engine: Diesel 600 HP - Automatic gearbox (7+2)

Suspension: Mixed oleopneumatic/mechanical with long travel

Tyres:

- Central tyre inflation system
- Run flat device

Speed/range: 100km/h / 750km (60mph/470 miles) (standard conditions)

Fording/obstacle clearance:

- Step: 80cm - Trench: 2m
- Fording: 1.20m without preparation/1.50m with preparation

Strategic transport: Road - Rail - Air transportable (C17, A400M)

Armament

Weapon systems: RWS 0,5, ARX20, ARX25, one-man 25mm turret, 30mm, 40CTA, to 105mm turret. Mortar, Anti-Tank missiles

Ergonomics & Human Factors

Field of view:

- Driver: 180° (day/night vision)
- Commander: 360° (day/night vision)

Interior layout: Interior layout compatible with the size of the future I.T. equipped infantry soldier (covering 95% of population)

Stowage: External and internal



Deployed in operations by the French Army in Afghanistan, in Lebanon, in Central African Republic and Mali.



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