



ARMA

8x8 WHEELED ARMORED VEHICLE

Otokar



Outstanding Mobility with High Survivability

ARMA is a new generation modular multi-wheeled armored vehicle with superior tactical and technical features.

The modular and highly protected hull design of ARMA 8x8 provides a multipurpose platform that enables seamless integration of various types of mission equipment and/or weapon systems which meet the needs of modern armies in combat and peace keeping operations.

ARMA, being an agile and highly maneuverable platform, can be operated over long distances in a wide range of challenging terrains from deserts to arctic conditions.



Vehicle Concept

- State-of-the-art design and engineering
- Low silhouette and compact vehicle size with large internal volume and high payload
- Growth potential for future emerging requirements
- Superior mobility in a wide range of demanding terrains
- Armored monocoque hull protecting crew against a wide variety of threats
- Engine and power unit located at the right front of the vehicle
- Configurable to carry up to nine troops seated face to face, in addition to the commander, gunner and driver.
- Ergonomically designed seating for protection and comfort
- Outstanding reliability, long service life and excellent economy





Exceptional Cross Country Performance

The independent suspension system enhanced with Run Flat Tires, built-in Central Tyres Inflation System (CTIS) and Anti-locking Brake System (ABS) improves ground mobility and ride comfort even over the roughest terrain. Vehicle's mobility is further enhanced with longitudinal and transverse differential locks and the high power to weight ratio coupled with high ground clearance and approach/departure angles.

Mobility

- Extraordinary mobility in both urban and cross-country environments
- Proven in various on and off-road conditions under diverse climatic conditions
- Fully independent suspension
- High power to weight ratio
- Power-assisted two-axles steering system providing precise control and easy maneuverability with tight turns
- Central Tyres Inflation System (CTIS) enabling the driver to adjust the tyre pressure while traveling
- Optional amphibious capability

Power

- Powered by a turbo-charged diesel engine that generates high power and extraordinary torque at challenging terrains
- Superior reliability and maintainability
- Low fuel consumption and operational cost
- Optional amphibious capability by twin propeller drive with joystick control

Survivability

- Modular ballistic protection, upgradable according to future threats
- Superior ballistic protection against KE projectiles and fragments
- High level of mine protection
- Enhanced protection against IEDs
- Equipped with Nuclear, Biological and Chemical (NBC) protection solutions
- Specially designed seats preventing body injuries such as head, neck, spinal cord and pelvis
- Five-point seat belt providing safe cruising for the crew

Lethality

- Suitable for integration of various weapon systems from 7.62 mm up to 120 mm (and also 120 mm mortar)
- Ideal platform for anti-tank or anti-aircraft missile systems



Modularity for Various Missions

ARMA is designed to meet specific requirements of various customers in modern combat, peace keeping and human relief operations.

ARMA is available in various types of mission configurations such as Armored Personnel Carrier, Infantry Fighting Vehicle, Mobile Gun System, Mortar Carrier, Command Post, Ambulance, CBRN Reconnaissance, Driver Training, Reconnaissance, Maintenance, Recovery, etc.



PERSONNEL CARRIER WITH OPEN CUPOLA



FIRE SUPPORT VEHICLE WITH 105 mm TURRET



PERSONNEL CARRIER WITH REMOTE CONTROLLED WEAPON SYSTEM



PERSONNEL CARRIER WITH OPEN CUPOLA (20 mm CANNON)



PERSONNEL CARRIER WITH BOZOK 25 mm MKT ONE MAN TURRET



PERSONNEL CARRIER WITH MIZRAK 30 mm MEDIUM CALIBER REMOTE CONTROLLED TURRET



AMPHIBIOUS VEHICLE



INFANTRY FIGHTING VEHICLE WITH 30 mm WEAPON SYSTEM



Superior Tactical and Technical Characteristics



Transportability

- Integrated sling and tie-down provisions
- Transportability by rail and sea complying with international standards
- Air transportability

Vehicle Electronics

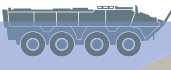






- Enhanced Graphical User Interface for the driver to control and monitor subsystems
- Built-in test and on board diagnostic capability with automatic malfunction detection
- Open Software Architecture with capability of expanding for future needs



Supportability

- Use of Commercially Off-The-Shelf components and subsystems
- Low life cycle cost, Long in-service life
- High reliability, High readiness for battle
- Ease of maintenance
- Training of operating and support personnel throughout the life cycle



> 9 km/h	1800 mm	30%	60%	700 mm	2000 mm	45°/45°
						
Swimming speed	Fording depth	Slide slope	Gradeability	Vertical Obstacle	Trench crossing	Angle of Departure / Approach

TECHNICAL SPECIFICATIONS	ARMA 8x8
WEIGHT AND DIMENSIONS	
Gross Vehicle Weight	Up to 40000 kg
Maximum Crew Capacity	Up to 12, including driver and commander
Length	8000 mm
Width	3000 mm
Height Over Hull	2460 mm
Ground Clearance	450 mm
ENGINE	Turbo charged diesel engine Up to 720 HP
TRANSMISSION	Automatic
TRANSFER CASE	Two speed with longitudinal lock
AXLES	Differentials with lock and geared wheel hubs
SUSPENSION	Fully Independent suspension with hydro-pneumatic struts on each wheel or Fully independent suspension with telescopic type shock absorber & helical spring
BRAKES	Pneumatic service brakes with discs on each wheel, dual circuit with ABS Pneumatic independent park brake system
STEERING	Power assisted, steerable 1st and 2nd axles
TYRES	14.00 R20 with run-flat system
ELECTRICAL SYSTEM	24 V, 12 V, 120 Ah Maintenance-free Batteries, 28 V Alternator
PERFORMANCE DATA	
Maximum Speed	>100 km/h
Swimming Speed (Amphibious version)	> 9 km/h
Fording Depth	1800 mm
Side Slope	30%
Gradeability	60%
Vertical Obstacle	700 mm
Trench Crossing	2000 mm
Angle of Approach	45°
Angle of Departure	45°
Range	700 km

STANDARD FEATURES
Central Tyre Inflation System
Radial Tyres with Run Flat Inserts
Anti-Locking Brake System (ABS)
Air Conditioning System/Heater
Ramp Door with Emergency Exit
5 Point Seat Belts
Adjustable Seats for Driver and Commander
Floating Floor
Roof Hatches
Towing Eye
ARMATRONICS (Vehicle Electronics)
Driver's Vision Enhancement System
Driver Integrated Display
Blackout Lighting System, NATO Type Blackout System
Logging and Replay System (Video and Vehicle Data)
Embedded Diagnostics
Jump Start Socket
Fog Lights
Radio Provisions

OPTIONS
Amphibious Capability
Winterization Kit
Self-Recovery Winch
CBRN Filtration System
Automatic Fire Extinguishing and Explosion Suppression System
Radio/Intercom System
Smoke Grenade Launchers
Auxiliary Power Unit
Situational Awareness System
Commander Integrated Display
Navigation System (GPS/INS)
Ramp Door with Emergency Exit
Barricade Remover
Gun Ports and Vision Blocks
All Wheel Steering System

All text and illustrations shown in this brochure are not binding and are provided for guidance only. OTOKAR reserves the right to introduce modifications in line with technical progress and change the product specifications without any prior notice.

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