

COBRA

4x4 TACTICAL WHEELED ARMoured VEHICLE



AZ58EA-09

TECHNICAL SPECIFICATIONS	COBRA
ENGINE	
Type	Water cooled turbo charged 6,5 lt,190 HP
GEARBOX	
Type	4 speed, automatic
TRANSFER BOX	
Type	Full time, 4 wheel drive with lock, 2-speed
FRONT/REAR AXLES	
Type	Independent double A-frame, with hypoid differentials
SUSPENSION	
Type	Helical coil suspension
BRAKES	
Type	Servo assisted hydraulic disc brakes
STEERING	
Type	Power Assisted
FUEL TANK	155 lt
TYRES	
Type	37x12.5 OR 16.5 LT size radial tyres with run flat device
ELECTRICAL SYSTEM	
	24 volts, fully suppressed. Alternator 200 A capacity. 2x12 volt, 120 Ah batteries
DIMENSIONS AND WEIGHTS	
Overall length	5225 mm (w/o winch)
Overall length	5480 mm (w/ winch)
Overall width	2235 mm
Overall height	2100 mm (w/o weapon station)
Track	1820 mm
Wheelbase	3300 mm
Combat weight	6300 kg
Gross weight	5200 kg (w/o weapon station)
PERFORMANCE DATA	
Power to weight ratio	30 HP /ton
Acceleration (0-60kph)	14,3 seconds
Turning radius	7.86 m
Angle of approach	57°
Angle of departure	56°
Water speed (w/amphibious kit)	8 km/h

STANDARD EQUIPMENT
Blackout lights
Intervehicle starter socket
Mains switch
Rifle clips
Central Tyre Inflation System
All round vision blocks
Safety belts for crew
Lashing and tie -down provisions
On-board tooling
Thermal insulation kit
Air intake fan
Radio Provisions
Air Conditioning System
All rounds gun ports

OPTIONAL EQUIPMENT
Electrical self recovery winch 5,5 t
Amphibious kit
NBC protection kit
IR driving lamps
Smoke grenade launchers
NVG compatible glazing
Fire suppression system
Night vision periscopes (for driver and commander)
Intercom system
Pioneer kit
Search light

Technical features contain nominal data. These technical specifications may vary according to the vehicle specification and equipment. Otokar reserves the right to modify the specifications and equipment of vehicles beforehand. The details of the specifications and equipment may change according to the local needs and conditions.

Otokar

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Otokar



Ready for the mission...

COBRA... Distinguished 4x4 Multipurpose Light Armoured Vehicle... Reliable Companion of the armed forces along with the worldwide logistics support...

The mission accomplishment according to most demanding military requirements and the crew protection are at the top priorities under the hardest circumstances and in the most demanding field conditions... Thanks to the remarkable ballistic protection, superior mobility as well as, the modular design adaptable to various missions, **COBRA is always ready for the mission.**



Mobility and survivability

COBRA offers a superior mobility and serves many different missions. The powerful turbo diesel V8 engine and high power/weight ratio give COBRA, power to navigate in the toughest terrain conditions.

The Independent Suspension, the Central Tyre Inflation Systems along with the permanent four-wheel drive, automatic transmission and front/rear 2 speed lockable transfer box ensure the highest level of mobility. The wide wheels help for a remarkable success on any field conditions.

The optimised body angles of the monocoque hull structure grants COBRA a reliable constitution for the superior protection resulting an excellent level of built in survivability.

Together with HMMWV's proven reliability, COBRA offers commonality and interchangeability with the mechanical components of HMMWV. This feature eases the maintenance burden and maximizes the availability of the vehicle for armed forces who are already operating HMMWV's.

Payload

Prioritizing the concepts of safety and comfort of the crew, COBRA transports up to 9 personnel from one mission to another.



Reliability

Having proven itself worldwide among various geographical regions and climates, COBRA consists of the most reliable and globally well-known mechanical components for the consistent service. With a few exception, all power train and suspension components of COBRA are selected from the developed ECV variant of the AM General's HMMWV, which has proven itself in several geographical and terrain conditions thought the world in terms of mechanical durability.





Superior protection and terrain capability

Superior crew protection

Thanks to the optimised angles of the armoured body in monocoque structure, COBRA differentiates itself with remarkable protection against explosives and mines.

Effective protection against mines

Mine protection was emphasized during the preliminary design phases of Cobra. COBRA is protected against A/P and A/T type mines. The seats, specially designed for absorbing the effect of mines, provide the life-safety of the crew. In addition to the steel armoured, a secondary composite floor material helps absorbing the blast effect of mines.



Ballistic protection

Keeping all the critical mechanical components within the armoured hull, COBRA is protected against armour piercing (A/P) bullets of infantry rifles. The monocoque type body structure and optimized sidewall angles are designed for increasing the ballistic protection of the vehicle.

Weapon systems

Being ready to accomplish any type of mission, COBRA is an ideal platform for different weapon systems. Thanks to its modular structure and advanced engineering, various types of weapon stations and turrets with night vision periscopes, fire control systems with thermal capabilities, coupled with 7,62 or 12,7 mm machine guns, 40 mm automatic grenade launchers, 20 mm canon, anti-tank or anti-aircraft and missile launcher capabilities can be adapted to COBRA in accordance with the vehicle type and mission definition.

Powerful engine

The turbo charged V8 type, 190 hp diesel engine of COBRA provides superior power for the vehicle. The engine power is affected from the altitude at minimum level. The engine is located within the armour hull and apart from its low fuel consumption; it can work with F-34 type fuel when necessary. Maintenance points are easily accessible through the wide opening front hood.



Central tyre inflation system

COBRA offers central tyre inflation system in order to provide a better traction as well as a smooth adaptation to various types of terrain. The driver can adjust the air pressure of the front and rear tyres while he is inside the vehicle. The tyres can be inflated in case of emergency and the tyre pressure can be controlled within the vehicle.

Thanks to the modular body structure, COBRA is a multi purpose platform, designed for various military missions like:

- General Purpose
- Personnel Carrier
- Ambulance /Medical Evacuation
- Reconnaissance/Surveillance
- Command and Control
- Liaison
- Weapon Platform (12,7 mm, 40 mm AGL or ATGM' s like TOW or MILAN or SAMS for anti-aircraft roles)
- NBC Reconnaissance

Versatility in design and adaptability to various missions are among the significant design assets of COBRA. Common platform concept also helps the training, maintenance, and the logistic support planning.



One platform for various missions



ARMOURED JAMMER VEHICLE



ARMOURED RECONNAISSANCE VEHICLE



ARMOURED 40 mm AGL TURRETED PLATFORM



ARMOURED 20 mm CANNON PLATFORM



ARMOURED NBC RECONNAISSANCE VEHICLE



ARMOURED AMPHIBIOUS VEHICLE



ARMOURED INTERNAL SECURITY VEHICLE



ARMOURED ANTITANK PLATFORM



ARMOURED COMMAND and CONTROL VEHICLE



ARMOURED 12,7 mm OPEN TURRET PERSONNEL CARRIER



ARMOURED 12,7 mm CLOSED TURRET PERSONNEL CARRIER



ARMOURED EOD-BRATT VEHICLE



For various missions, at all terrains

Logistic support

Life time logistic support through immediate, efficient and timely service even in the highest risk areas gives COBRA a certain privilege. COBRA is backed by Otokar's comprehensive worldwide Integrated Logistic Support (ILS) program providing long term efficient and economical operation.



Amphibious feature

Various types of COBRA can be designed with amphibious feature. Double hydraulic thrusters with joystick control allows the vehicle to navigate water obstacles with high level stability.

Easy and fast access on and off

The wide, full opening side and back doors and emergency roof hatches provide the fast access on and easy access off of the crew when necessary. Doors are especially designed with three slide locking system.



Air-transportability

Compactly designed COBRA is transportable by C-130 or bigger types of transport aircrafts, and by CH-47, CH-53, etc types of helicopters those have appropriate lifting capacity.



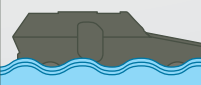


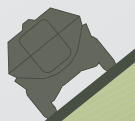
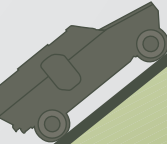

OTOKAR and COBRA



OTOKAR and R&D

Thanks to the advanced technology and software used, prototype laboratories, unique road simulators and other test equipments, Otokar is one of the leading research and development centres of Turkey with the country's most experienced design team.

COBRA Tactical Specifications

1000 mm or Amphibious (Optional)	110 km/h	400 mm	40 %	60 %	600 km
					
Fording	Max. Speed	Ground Clearance	Side Slope	Gradient	Range