

GENERAL DYNAMICS
Land Systems

Based on the Cougar 4x4, the ISS is fitted with a new, integrated independent suspension system that gives the Cougar ISS increased cross-country mobility in even the most demanding environments. Even in the heaviest load configurations, it matches well with the most severe mission profiles. With its four-man crew compartment and scalable protection, it can be used for the same missions as the 4x4, all while extending the effectiveness of the Warfighter.

COUGAR ISS





COUGAR ISS

ABOUT THE VEHICLE

Survivability is key to successful operations. The ability of personnel to survive an attack in combat depends on the ability of their vehicle to survive. Cougar MRAP vehicles boast outstanding occupant survival rates. Yet, survivability solutions are always evolving to meet new challenges and applying timely updates to existing equipment is critical.

In order to provide the timeliest response to these needs, we have a Total Life Cycle Support facility in Mina Abdullah, Kuwait. The facility is designed to support the ongoing need to modernize, repair, service, supply and conduct training for the fleet of vehicles deployed in Iraq, Afghanistan, throughout the Middle East and Central Asia. This facility greatly shortens response times for spare parts, fleet service, and will serve as a forward logistics station for staging and installation of upgrade kits such as the high-performance mobility independent suspension systems (ISS) for the Cougar MRAP.

FEATURES & SPECIFICATIONS

CONFIGURATION

Height – ~124 in (315 cm) to top of roof
Width – 108 in (274 cm) at fenders
4 x 4 Length – 248 in (630 cm) from front bumper to rear steps
6 x 6 Length – 294 in (747 cm) from front bumper to rear steps
4 x 4 Curb Weight – 38,000 lbs (17,237 kg)
6 x 6 Curb Weight – 48,000 lbs (21,772 kg)
4 x 4 Combat Weight – 44,500 lbs (20,185 kg)
6 x 6 Combat Weight – 68,000 lbs (30,980 kg)
4 x 4 Payload – 6,500 lbs (2,948 kg)
6 x 6 Payload – 20,000 lbs (9,072 kg)
Ground Clearance – 18 in (46 cm) at differential
4 x 4 Seating – 2 + 4
6 x 6 Seating – 2 + 8
Fuel Capacity – 60 gal + 10 gal reserve

PERFORMANCE @ GVW

Governed Speed – 55 mph (88 km/h) cruise; 65 mpg (104 km/h) burst
4 x 4 Range – 420 mi (675.9 km)
6 x 6 Range – 350 mi (563.3 km)
Fording Depth – Unprepared ~33 in (84 cm)
Approach/Departure Angle – 45° / 50°
Max Grade/Side Slope – 60% / 30%
Turning Radius/Vertical Step – 26.5 ft/24 in

POWER TRAIN & SUSPENSION

Engine – Caterpillar C7 Diesel (MIL SPEC)
Transmission – Allison 3200 series
4 x 4 Transfer Case – 4-speed
4 x 4 w/neutral position
6 x 6 Transfer Case – 5-speed
4 x 4 w/neutral position
Horsepower – 270 hp @ 2400 RPM
Torque – 860 ft lbs (1166 nm) @ 1450 RPM
4 x 4 Front/Intermediate/Rear Axle – Full independent w/CTIS
6 x 6 Front/Rear Axle – Full independent w/CTIS
6 x 6 Intermediate Axle – N/A
Tires/Wheels – Michelin XZL 16R20 M Rated w/CTIS
Brakes – Pneumatic
Steering – Power assist
Run Flats – Hutchinson VFI

DOORS/HATCHES

5 total –
1 Driver
1 Co-driver
1 Rear crew double door
1 Top-side standard hatch
1 Turret opening hatch

AIR TRANSPORTABILITY

Certified to MIL-STD 209K

SYSTEMS

Climate Control System – HVAC (dual units rated at 21,000 & 33,000 BTU)
Electrical/Power System – 24V/570 AMP Alternator, 24V DC
Electronic Architecture – C4IS open & scalable architecture compatible with: FBCB2; Primary and secondary crew stations (w/displays, gigabit ethernet network, crew II); VDE; Rear-view camera; Integrated RWS; Acoustic gunfire detection system
Communication System – AN/VRC-92F, -110, -110, -103, -104V3, Mk-21-75, VIC-5
Integrated Systems/Fuel Tanks – Sparks/ Ballistic enclosure with fire retardant

SURVIVABILITY

Artillery – Modular and scalable kits available
Blast – Available upon request
AAIED – Modular and scalable kits available
Fire – Kidde AFES crew and engine compartment + manual
Weapons Capability – Equipped with M1114 Turret assembly; Will accept OGPK, CROWS, TOW/ITAS and RWS
Trailer Capability – 0 M101, 105, 149, 200, 1082, 1101, ETC

OTHER

Differentials – Locking
Vehicle Tool Kit – Included BII Kit
Winch – 18K 24V DC
NBC Collective Protection/Overpressures/CTIS – Available

*All specs are for both the 4 x 4 and 6 x 6 unless otherwise noted above