

HDT SWORD ITV

Light Tactical All-Terrain Vehicle

HDT[®]
GLOBAL



Developed in conjunction with Special Operations Forces, the HDT Sword ITV is a light-weight tactical vehicle that facilitates mission success in austere environments and that answers the previously unmet challenges these warfighters face. The HDT Sword ITV ensures mission range, provides multi-role configurations, and can be transported internally by V-22, M/HC-130P/N/J, C-130/C-130J, KC-130J and C-17 fixed wing aircraft as well as the CH-47 and CH-53 helicopters. And to further enhance mission capability, the vehicle can drive on and drive off these aircraft without shoring and can be deployed through low velocity aerial delivery or JPADS methods.

KEY FEATURES

- The high performance mid-engine design operating on JP8/diesel (low sulfur) (230 hp) provides ultimate performance, maneuverability and versatility
- Performs at 10,000' (3048 m) above mean sea level with higher horsepower levels than competitive vehicles offer at sea level
- Long travel suspension and optimized approach and departure angles
- Can traverse terrain considered impassable to conventional vehicles, including vertical rock terrain
- Carries up to four litters, in rollover protection system (ROP)
- Rollover safety for all occupants without limiting mission operational performance
- Cutting brakes allow U-turns on steep hills within the length and width of the vehicle and allow high speed J-turns
- Extreme maneuverability in rugged environments
- Has a 20' (6.1 m) turning diameter curb to curb
- Rapid evasive maneuverability in confined spaces



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HDT SWORD ITV SPECIFICATIONS

Ordering information

HDT part number	HDT-ES000049
On GSA Contract	No

Powertrain

Engine type	3.0L DOHC Turbocharged Intercooled	
Fuel Type	JP-8, Low Sulfur Commercial Diesel	
Capacity	30 gal	113.56 L
Horsepower	230 HP	169.2 kW
Torque	350 ft-lbs	475 Nm
Drivetrain	4x4 high and low gear, 4x2 FWD high and low gear, 4x2 RWD high gear, automatic transmission	

Physical dimensions

L x W x H (chassis)	170" x 59.25" x 59.75"	431.8 x 150.5 x 151.8 cm
With spare, front bumper, and tires	196" x 63.5" x 59.75"	497.8 x 161.3 x 151.8 cm
Wheelbase	120"	304.8 cm
Vehicle curb weight	3794 lb	1720.93 kg
Gross Vehicle Weight (GVW)	8,000 lb	3628.7 kg
Gross Vehicle Weight Rating (GVWR)	8,500 lb	3855.5 kg

Clearances

Approach angle	90 degrees	
Departure angle	75 degrees	
Ramp over angle	116 degrees	
Vertical step	18"	45.7 cm
Ground clearance	15"	38.1 cm

Sub systems

Suspension, front and rear	Four-wheel solid axle coil over suspension with operator adjustable damping and height control. Optional in vehicle, driver-adjustable vehicle height adjustment system.	
Turning radius (curb to curb)	20'	6.1 m
With cutting brakes	10'	3.0 m
Wheel and tire size	Tire size 37 x 12.5 x R17 LT 8 Ply Radial Run Flat	

Performance

Top speed	85+ mph	137+ kph
Cruising range, flat ground at 45 mph	690 miles	1110 km
Maximum grade	173%	60 degrees
Side slope	58%	30 degrees
Fording	38" @ 5 mph	96.5 cm @ 8 kph

Transportability

Aircraft Certifications	NAVAIR V-22 Certified
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