

Message from Tom Walmsley



Greetings,

Today, Textron Marine & Land Systems is pleased to announce the delivery of a new generation of state-of-the-art armored vehicles, with the capabilities and tools to allow our warfighters to strike swiftly and successfully. Providing a range of capability and protection exceeding MRAP level +, unmatched on-road and off-road mobility, and ample firepower, our versatile COMMANDO™ vehicles can go almost anywhere and perform nearly any mission.

COMMANDO four-wheeled armored vehicles enable troops to strike swiftly by delivering exceptional performance across the full spectrum of military operations. Rigorously tested and proven in the toughest environments, the COMMANDO family of vehicles offers a range of affordable options to our

customers. Drawing from four vehicle lines, Textron delivers customized capabilities that meet each customer's mission needs. As a full-spectrum armored vehicle provider, we're also there every step of the way, with vehicle fielding, training and logistics support in addition to excellence in vehicle design and manufacturing.

The COMMANDO family of vehicles includes the COMMANDO Advanced series, COMMANDO Select series, COMMANDO Elite series, and the COMMANDO Utility series. Each is customizable to deliver the unique multimission capabilities our customers require.

The COMMANDO Advanced four-wheeled armored vehicles, derived from our Armored Security Vehicles, have been combat hardened over 10 years in locations including Iraq, Afghanistan and Colombia. Crew protection is reinforced with a V-shaped monocoque hull and 360-degree protection from direct fire. COMMANDO Advanced vehicles in use by the U.S. Army have delivered an excellent operational readiness rate - consistently in excess of 90 percent.

The COMMANDO Select four-wheeled armored vehicles offer an enhanced combination of lethality, survivability, mobility and sustainability. MRAP level + crew protection is built into all COMMANDO Select vehicles, which are in use today in Afghanistan. Greater survivability, however, doesn't mean sacrificing vehicle mobility. These vehicles deliver greater mobility than other MRAPtype vehicles.

The COMMANDO Elite four-wheeled armored vehicles offer an optimum package of features and benefits. Our most highly-protected vehicles, the COMMANDO Elite series provides superior direct fire and MRAP level ++ mine-blast protection. These vehicles also come equipped with our latest drive-train enhancements, adding more maneuverability in a wider range of environments. As for lethality, COMMANDO vehicles can accommodate any combination of weapons. They also feature a digital backbone for vehicle systems monitoring and future electronics expansion.

The latest addition to our COMMANDO family of vehicles, the COMMANDO Utility vehicle, offers our customers a very versatile capability to provide support in both forward and rear echelon operational environments. These utility vehicles leverage our experience and many of the technologies incorporated in our armored vehicles to provide unparalleled support in rough terrain and other adverse conditions.

Whether serving as an ambulance, an armored personnel carrier, a command and control vehicle, a reconnaissance vehicle, a support utility vehicle - or directly engaging the enemy in combat – all of our COMMANDO vehicles are ready for action. And with Textron Marine & Land Systems' reliable vehicle fielding, training and logistics support package, our vehicles will continue to serve our customers with distinction for many years to come. The COMMANDO Family of Vehicles – Strike Swiftly.

Best Regards,

Sr. Vice President and General Manager Textron Marine & Land Systems

COMMANDO

A Legacy of Combat Proven Vehicles



1963: LAV-100 (light amphibious vehicle)



1971: LAV-150, compact like the LAV-100, but capable of mounting larger turrets and mortar platform, like the LAV-200.

1976: Introduction of the Armored Scout, a light four-wheeled reconnaissance vehicle sold to various friendly nations





1978: LAV-300 developed to address the need for a six-wheeled vehicle. Fifteen variants, many still in service around



1981: LAV-150S (stretched) variant introduced. During the early 1980s, V-150S variants were

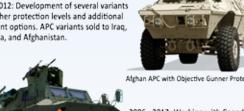


1988: CGT introduced the Commando V-600, a powerful 6x6 weapons platforn nounting the 105-mm low recoil force



1995: Prototype development initiated for the M1117 ASV, engineered for optimized survivability and performance. 2003: Full production for use by U.S. Army MPs in the Middle East began

2006 - 2012: Development of several variants with higher protection levels and additional armament options. APC variants sold to Iraq. Colombia, and Afghanistan.



2006 - 2012: Working with Canadian DND, development of Tactical Armoured Patrol Vehicle to meet DND requirements for increased crew space with enhanced obility, survivability, and performance.

Tactical Armoured Patrol Vehicle (TAPV)

Our legacy began with the V-100. It was the first in a series of 4x4 Armored Security Vehicles, was developed in 1963 with amphibious capability and used extensively in the Vietnam conflict, particularly for reconnaissance and in convoy escort roles.

Based on lessons learned from Vietnam, the V-150 was developed as a hybrid variant, had some V-100 features and could be equipped with diesel or gasoline engines. Most were produced for the Royal Saudi Arabian National Guard.

Textron Marine & Land Systems later developed a 6X6, light armored vehicle. The V-300 series includes 15 variants. The Cadillac Gage V-300 is Textron Marine & Land Systems only six-wheeled vehicle that is still in service internationally.

As the world changed, the Military Police Corps defined a requirement for a four-wheeled armored vehicle to be used by its MP teams. In 1995, Textron Marine & Land Systems began development of the M1117 Armored Security Vehicle. This vehicle provided crew protection in a light and lethal vehicle. It offered substantially increased security, mobility and survivability far superior to the HMMWV used throughout the army.

Driving in Iraq and Afghanistan had remained dangerous and deadly for our troops. The safer alternative was Textron Marine & Land Systems' M1117 Armored Security Vehicle or the ASV. This ASV filled the gap between heavier armored vehicles and small trucks, with a long list of protective advances.

The vehicle includes optimized survivability, all terrain performance, and increased lethality. The ASV monocogue hull is comprised of welded armored steel and ceramic armor appliqué combined with composite inner spall liner. This enhanced ballistic protection provides 360-degree defense against direct and indirect weapons, mines, and improvised explosive devices. The ASV's record for protecting its soldiers from RPGs, mines and IED attacks is unmatched by any vehicle in its class. Add to that a top speed of over 65 mph, and you have a vehicle that delivers.

It's no accident that more than 3,100 ASVs have rolled off our production line to the U.S. Army and are in the hands of our warfighters.

Combining more than 45 years of experience of military vehicle design, development, and production Textron Marine & Land Systems is one of the most experienced manufacturers of wheeled armored military vehicles in the world. Textron Marine & Land Systems has designed, produced and delivered more than ten thousand armored vehicles to the United States, international military and police forces.



COMMANDOTM Advanced

COMMANDO Advanced four-wheeled armored vehicles, derived from our Armored Security Vehicles (ASV), are combat proven over 10 years, in locations including Afghanistan, Iraq and Colombia. These durable armored vehicles offer excellent on-road and off-road mobility enabling them to operate in urban, jungle, desert and mountainous terrain. Crew protection is reinforced with a V-shaped hull bottom and 360-degree protection from direct fire. Customers utilizing the current COMMANDO Advanced fleet can upgrade to MRAP+ crew protection through an Enhanced Survivability package. Commonality across COMMANDO vehicle types makes them easy to operate, maintain and repair. COMMANDO Advanced vehicles are extremely dependable. Those in use by the U.S. Army have delivered an excellent operational readiness rate - consistently above 90 percent.



Reconnaissance Vehicle

COMMANDO Advanced Recon Vehicles provide an armored reconnaissance platform that incorporates both ballistic and blast protection.



Armored Personnel Carrier

COMMANDO Advanced Armored Personnel Carriers (APCs) provide additional troop capacity to a highly mobile, survivable medium armored vehicle.



Armored Security Vehicle

COMMANDO Advanced Armored Security Vehicles provide substantially increased mobility and survivability compared to other medium armored vehicles.

Specifications

Weight	
•	
Gross Vehicle Weight	00 000 II- (4.4 000 I)
Dimensions	
Length	
Performance	
Range @ 40 mph (64 kph)	
	440 11 (700)
Turning Diameter	
ASV	55 ft (16.7 m)
APC/Recon	
Gradient	60%
Side Slope	30%
Vertical Wall	
ASV	
Recon	
Fording	60 in (1.5 m)
Air Transportability (ASV)	
	Protection from direct/indirect weapons, mines, and IEDs
Amament	Turret: 40-mm MK-19, .50 cal M2HB
ASV	
ADO	
APC	Various, depending on customer needs
APCRecon	Various, depending on customer needsTUA, Cupola
APC	Various, depending on customer needs
APCRecon	Various, depending on customer needsTUA, Cupola
APC Recon Power Train Engine	Various, depending on customer needsTUA, Cupola
APC Recon Power Train Engine ASV	Various, depending on customer needsTUA, Cupola
APC Recon Power Train Engine ASV APC	
APC Power Train Engine ASVAPC	
APC	

Mission equipment options are available, according to customer specification. Additional COMMANDO Advanced variants include: Command & Control Vehicle; Engineering Vehicle; and Maintenance Vehicle.



COMMANDO[™] Select

COMMANDO Select four-wheeled armored personnel carriers offer an enhanced combination of lethality, survivability, mobility and sustainability. MRAP+ crew protection is built into all COMMANDO Select vehicles. Greater survivability however doesn't mean sacrificing vehicle mobility - these vehicles deliver greater mobility than other MRAP-type armored vehicles on the market. Our COMMANDO Select vehicle can be configured to accommodate up to 10 (three crew plus passengers) to enable greater troop carrying capacity. Select vehicles are designed to be easy to operate and maintain, with readily available parts, training and service support.



APC with Turret

COMMANDO Select Armored Personnel Carriers with Turret substantially increase security, mobility and survivability using knowledge gained from more than 10 years of dual combat theater use.



APC Ambulance

COMMANDO Select Armored Personnel Carrier Ambulance provides ballistic and blast protection to the medical crew during patient treatment and transport.



Mortar Vehicle

COMMANDO Select Mortar vehicles meet the emergent requirements of today's combat units for a more operationally flexible and adaptable indirect fire capability while taking advantage of the vehicle's mobility and survivability.

Specifications

Weight	
Gross Vehicle Weight38	8,000 lb (17,237 kg)
Dimensions	
Length	261 in (6,629 mm)
Width (overall)	108 in (2,743 mm)
Height	119 in (3,022 mm)
Ground Clearance	26 in (660 mm)
Performance (at 35,100 lb)	
Speed (level hard surface)	62 mph (100 kph)
Acceleration 0-20 mph (0-32 kph)	8 sec
Acceleration 0-50 mph (0-80 kph)	30 sec
Range @ 40 mph (64 kph)	.400 miles (644 km)
Turning Diameter	65 ft (21.3 m)
Gradient	60%
Side Slope	30%
Vertical Wall	22 in (.56 m)
Fording	60 in (1.5 m)
Tires	
SuspensionFully independent front and rear, upper and	I lower control arms
Power Train	A PARTY
Engine Cummins 6CTA8.3, 28	
Transmission	
Sights	
Armament	
SurvivabilityProtects against direct and indirect weapo	ons, mines and IEDs
Seating	
APC With turret: 3 crew, 4 dismounts; with OGPK or RWS:	3 crew, 7 dismounts
APC SWB With turret: 3 crew, 1 dismount; with OGPK or RWS:	3 crew, 2 dismounts
Ambulance3 crew and up to 2 ambula	tory, 2 litter patients

Mission equipment options are available, according to customer specification. Additional COMMANDO Select variants include: Command & Control Vehicle; Engineering Vehicle; Maintenance Vehicle; Objective Gunners Protection Kit; and Recon Vehicle.



COMMANDOElite

COMMANDO Elite four-wheeled armored vehicles are our most highly-protected and capable vehicles, providing superior direct fire and MRAP+ mine-blast protection. COMMANDO Elite vehicles come equipped with our latest drive train enhancements making them fast and highly maneuverable in a wide range of environments. Lethality is achieved through multiple sensors and weapons options. COMMANDO Elite vehicles are flexible enough to accommodate nearly any remote weapon station available - single or dual weapon mix. They also feature a digital backbone for vehicle systems monitoring and future electronics expansion. COMMANDO Elite vehicles are easy to maintain and repair, with readily available parts, training and service support.



COMMANDO Elite Vehicles

The COMMANDO Elite class comprises the best 4x4 armored vehicle on the market, featuring the ultimate package of sustainability, mobility, lethality and survivability.



Specifications

eig	

Gross Vehicle Weight	38,000 lb (17,237 kg)
Curb Weight	32,500 lb (14,742 kg)
Performance (at 38,000 lb)	
Speed (level hard surface)	65 mph (105 kph)
Range @ 50 mph (80 kph)	
Gradient	, in the second
Side Slope	
Vertical Wall	24 in (.6 m)
Fording	60 in (1.5 m)
Tires Michelin 16.00R2	20 XZL with Hutchinson run flat inserts
Suspension Fully independent front a	and rear, upper and lower control arms
Power Train	
Engine	. Cummins QSL 365, 365 hp, 1113 lb-ft
Transmission	Allison 6-speed
ArmamentVar	ious (depending on customer needs)
SurvivabilityProtects against direct	and indirect weapons, mines and IEDs
Situational Awareness	Unaided 360 degrees
Other Mission Equipment Options	· 一种 · · · · · · · · · · · · · · · · · ·
Add-on Armor Turret Enhancements	Customer specification
Turret Enhancements	Customer specification
Alternator	400- and 575-amp alternator
ABS	Customer specification
NAV/GPS	Customer specification
NBC Individual/Overpressure	Customer specification
360-Degree Situational Awareness (Night/Day)	Customer specification

Mission equipment options are available, according to customer specification. Additional COMMANDO Elite variants include: Command & Control Vehicle; Engineering Vehicle; Maintenance Vehicle; and Recon Vehicle.

Seating...... With turret: 3 crew, 2 dismounts; with OGPK or RWS: 3 crew, 4 dismounts



COMMANDOTM Utility

COMMANDO Utility vehicles are designed to facilitate unique mission requirements in forward and rear echelon operational environments. Technologically advanced, these utility vehicles perform demanding tasks with ease, allowing users to complete tasks efficiently and safely. COMMANDO Utility vehicles are backed by the same Textron name that has become synonymous with safety, reliability, durability and value. Choose a COMMANDO Utility vehicle for your service requirements.

The Baserunner allows you to take command with a 4x4 selectable gas/electric hybrid vehicle. In gas mode, the Baserunner powers through rough terrain and adverse conditions while electric mode provides quiet vehicle operation.







Granite's Small Combat Tactical Vehicle™ (SCTV™) System is an MRAP-style fully armored monocoque v-hull crew capsule designed to replace the crew compartment of the HMMWV in a one-for-one exchange.

Standard Equipment

Baserunner

In addition to the option for gas or electric mode for mission efficiency, rack and pinion steering and four-wheel hydraulic brakes protect your precious cargo while independent front suspension and 480cc, 16 hp engine or 48V DC, 20 hp motor help ensure you're always on time on target. Complete the mission with the Baserunner and return satisfied with another job well done.

- 48V heavy-duty DC, 20 hp electric motor (2WD mode)
- 480 cc, 16 hp V-twin engine (2WD mode)
- Electric/gas hybrid (4WD mode)
- · Rack and pinion steering
- Four-wheel hydraulic brakes
- · Locking rear differential
- Independent front suspension
- Heavy-duty rear leaf springs
- 9.6 cu ft cargo bed
- 1-3/4" tubular steel operator protective structure (OPS)
- Three-point seat belts

- Side safety nets
- 25-inch aggressive-tread tires
- Front brush guard
- 12-volt accessory outlet with USB port
- Headlights/taillights
- 48V battery charger
- Bucket seats
- Aluminum dump bed
- LED light package
- Winch kit
- Desert Tan paint package

Survivable Combat Tactical Vehicle™ (SCTV™) System for HMMWV

The SCTV is a lightweight, highly protected system that is low in maintenance, easy to fit, easy to maintain, easy to transport, and compatible with all versions of HMMWVs currently in service. It is manufactured as a two-piece unit that offers greater survivability to the crew and vehicle while maintaining characteristics of the original HMMWV cab by utilizing the existing controls, linkages and drive systems - the familiar and proven characteristics that make the HMMWV the vehicle of choice.

- Door windows slide open internally or externally
- Rear window easily released for emergency evacuation
- Blast protection seats with five-way restraining harnesses
- Aircon Front: 550CFM 20,000 cool and 22,000 heat
- Aircon Rear: 600CFM 24,000 cool and 26,000 heat
- Armored driveline tunnel isolates fuel cell from crew compartment
- Batteries housed outside crew compartment
- Bolt-In back wall allows for the installation of a rear door

- Interior finished with heavy duty, fire retardant insulation panels
- Emtech thermal guard soft interior headliner
- Smooth interior to reduce physical hazards to crew
- Roof supports weight & function of most gunner protection
 kits & weapon systems currently in use
- NBC overpressure system-capable
- Supports Kidde fire suppression system

Other Available Vehicle Platforms



Millenworks Light Utility Vehicle

State-of-the-art test bed for emerging automotive technolo-

- Hybrid Electric Drivetrain
- Plug In Hybrid Electric Vehicle utilizing J1772 interconnect
- Improved combat mobility, ride quality, and roll stability via semi-active suspension using MR struts
- Superior cockpit ergonomics, centered driving position for improved visibility
- Upgradeable armored hull that supports advanced B-kit appliqué solutions
- Scalable Vehicle Area Network enables future support of advanced prognostics and diagnostics







The Tiger All Terrain Combat Vehicle

Survivable, light protected all-terrain vehicle

- Incorporates a proprietary armored capsule mounted on a modified commercial Dodge® RAM® pickup
- Various armor levels available
- Cost-effective
- Configurations include patrol, convoy protection, troop carrier, medevac, C2, UAV control and launch, reconnaissance, NBC/engineering, and logistics vehicles
- Lightweight
- All-terrain, with Cummins 400 hp engine, 127-inch wheelbase, advanced suspension, and MPT 80 12.5X20" wheels

A Legacy of Lethality - Turrets

TM&LS has long legacy of experience with turreted weapon system design, development, integration and production fielding on both wheeled and tracked vehicles. Our weapon system product line integrates weapon calibers



USMC Upgunned Weapon System

from small machine guns to 105mm main tank weapons. The weapon/turret drive and fire control capabilities in these systems range from manual hand controls for the smaller caliber systems to stabilized, full solution fire control capability for the 105mm class systems.

TM&LS originally designed and produced the Upgunned Weapon System (UGWS) to U.S. Marine Corps requirements. The UGWS was successfully tested during DT/OT I and DT/OT II and over 340 units were produced for the Marine Corps. The UGWS has proven to be a reliable and durable one-man turret system.

A slightly modified version of the UGWS turret is

currently integrated into the M1117 Armored Security Vehicle (ASV). The TM&LS ASV turret incorporates proven, tested, and fielded components from the UGWS system into a dedicated, ballistically sound, ergonomically en-



Legacy TM&LS UGWS Turret



Current production M1117 ASV Turret

hanced turret with a reduced silhouette. The M1117 ASV turret is currently in production with over 3,500 units produced for the US Army and international customers.

More recently, TM&LS has developed an enhanced version of the ASV turret that incorporates the following enhancements:

- Proportional controls
- Dual-axis stabilization for the weapon and turret
- Improved electro-optics via integration of a laser rangefinder and cooled thermal imager.

These capabilities can be retrofitted to currently fielded ASV and UGWS turrets or supplied as new production turrets.

TM&LS also developed an advanced 105mm turret for the USMC's Assault Gun version of the LAV Family of Vehicles

(LAV-AG). This advanced turret integrated dual axis stabilization for the turret/weapon and the gunner's sight, full solution digital fire control, laser rangefinder and thermal imaging

Turret systems currently in development include an unmanned remote version of the 40/50 turret plus 25mm and 30mm turrets.

TM&LS' broad experience in lethality system development. integration, validation and test will be applied to developing optimum lethality solutions for the ASV, TAPV or any wheeled or tracked vehicle platform.

At right: United States Marine Corps Advanced LAV-105mm System







Dual Machine Gun Turret (1M)



Specifications

Weight Combat Ready	2,150 lb (975 kg), less gunner
	mounting twin 7.62-mm machine guns, .50 caliber
machine guns or con	nbination 7.62-mm/.50 cal machine guns (optional)
	Optional
Ballistic Protection	Protects against direct and indirect weapons
	Higher protection levels available as an option
	8 direct-view blocks with spall shields
	1 meter (39.36 in.), pitch diameter
	1 man
	360 degrees
Traverse Mechanism	Power assisted traverse with manual backup
Maximum Traverse Rate	50 degrees per second
Elevation	+55 degrees
Elevation Mechanism	Manual
Depression	8 degrees
Method of Firing	Electrical with manual back-up
Slip Ring	12 channel communication
	500,000 candlepower coaxial mounted spotlight
	Turret Blower
Ammunition Storage	
•	200 ready rounds per gun
	400 ready rounds per gun
Smoke Grenades	8 ready rounds, 8 rounds stowed

40MM/.50 Cal. Standard Turret



Specifications	
Weight Combat Ready	2,350 lb (1,066 kg), less gunner
Secondary Weapon	
Vision	360 degrees, 7 vision blocks with spall shields
	M36 day/night sight (modified)1 meter (39.36 in.), pitch diameter
Seating	1 man
Turret Power	Electric, 24 VDC
Traverse (Continuous)	
Traverse Type	Manual fine lay with electric assist
Traverse Rate (High Speed)	45 degrees per second (minimum)
Elevation	45 degrees
Depression	8 degrees
Elevation Type	Manual
Fire Interrupter	Electric
Method of Firing	Electric with manual backup
Spotlight	500,000 cp, coaxial (1,000,000 cp, optional)
Slip Ring	12-channel communication
Secondary	

40MM/.50 Cal. Enhanced Turret







Specifications

Weight Combat Ready	2,350 lb (1,066 kg), less gunne
Armament	
	40-mm MK 19, Mod 3 (included
• • • • • • • • • • • • • • • • • • • •	
	Options
	Day/thermal/laser sigh
The state of the s	1 meter (39.36 in.), pitch diamete
•	1 ma
	Electric, 24 VD0
	360 degree
Weapon/Turret Drive Controls	Electromechanical power controls with manua
	Stabilization (optiona
Traverse Rates	
•	45 degrees per second (minimum
<u> </u>	
Elevation Rates	
·	45 degrees per secon
• •	
Depression	8 degree
·	Electri
· ·	Electric with manual backu
Spotlight	500,000 cp, coaxial (1,000,000 cp, optiona
Ammunition Storage	
	96 ready rounds of 40mr
•	200 ready rounds of .50 calibe
Smoke Grenades	8 ready rounds, 8 rounds store

Specifications are subject to change without notice

40MM/.50 Caliber Remote Turret



Specifications	
Weight Combat Ready	2,000 lb (907 kg)
Armament*	
	40-mm MK 19, Mod 3 (included)
·	
	Optional Protects against direct and indirect weapons
Danistic Protection	Higher protection levels available via modular appliqué
Fire Control	Day camera/laser/thermal sight
	Ballistic computer (optional)
Ring Gear	
Gunner's MMI	Console with 12- to 15-inch monitor and joystick controller
Seating	
Turret Power	Electric, 24 VDC
Traverse (Continuous)	360 degrees
Weapon/Turret Drive Controls	Electromechanical power controls w/manual backup
·	Stabilization (optional)
Traverse Rates	· · · · · · · ·
·	45 degrees per second (minimum)
S .	
Elevation Rates	
·	45 degrees per second
S .	
·	-8 degrees
·	Electric
<u> </u>	Electric with manual backup500,000 cp, coaxial (1,000,000 cp, optional)
Slip King	Power, communication, signal and
Ammunition Storage	video pass-through
<u> </u>	
· · · · · · · · · · · · · · · · · · ·	200 ready rounds of .50 caliber
•	
*Other weapon combinations (40mm/7.62mm, 0.5	0cal/7.62mm are optionally available)

Specifications are subject to change without notice

25MM Remote Turret



Specifications

	2,500 lb (1,135 kg)
Armament	05 N040 Bushmantan Automatic Occurs
	7.62mm MG (optional)Optional
	·
Bailistic Protection	Protects against direct and indirect weapons Higher protection levels available via modular appliqué
Fire Control	Day camera/laser/thermal sight
	Range performance per customer requirements
	Full solution ballistics (optional)
Ring Gear	
Gunner's MMI	Console with 12- to 15-inch monitor and joystick controller
Seating	None-Remote controlled by gunner seated in vehicle
Turret Power	Electric, 24 VDC
Traverse (Continuous)	
Weapon/Turret Drive Controls	Electromechanical power controls w/manual backup
	Stabilization (optional)
Traverse Rates	
•	45 degrees per second (minimum)
Tracking Speed	0.5 mils per second
Elevation Rates	
•	45 degrees per second
Tracking Speed	0.5 mils per second
Depression	8 degrees
Fire Interrupter	Electric
Method of Firing	Electric with manual backup
Spotlight	500,000 cp, coaxial (1,000,000 cp, optional)
Slip Ring	
Ammunition Storage	
<u> </u>	
•	200 ready rounds of 7.62mm
Smoke Grenades	8 ready rounds, 8 rounds stored

Specifications are subject to change without notice





Specifications	
	2,350 lb (1,066 kg)
Armament	
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	7.62mm MG (optional)
	Optional
Ballistic Protection	Protects against direct and indirect weapons
F: 0 1 1	Higher protection levels available via modular appliqué
Fire Control	
	Range performance per customer requirements Full solution ballistics (optional)
Ring Gear	39.37 in (100 cm) diameter
Gunner's MMI	
	None-Remote controlled by gunner seated in vehicle
	Electric, 24 VDC
,	Electromechanical power controls w/manual backup
	Stabilization (optional)
Traverse Rates	Classification (Optional)
Slew Speed	45 degrees per second (minimum)
•	0.5 mils per second
Elevation Rates	
Slew Speed	
•	
Depression	8 degrees
Fire Interrupter	Electric
Method of Firing	Electric with manual backup
· ·	500,000 cp, coaxial (1,000,000 cp, optional)
• •	
Ammunition Storage	200 ready rounds of 30mm
•	200 ready rounds of 7.62mm
	8 ready rounds, 8 rounds stored

Specifications are subject to change without notice

30-40MM Remote Turret



Specifications	
Weight Combat Ready	3,000 lb (1,360kg)
Armament	
Primary Weapon	30-mm MK44 Bushmaster Automatic Cannon
· ·	
	Optional
Ballistic Protection	Protects against direct and indirect weapons
Eiro Control	Higher protection levels available via modular appliqué
Fire Control	Range performance per customer requirements
	Full solution ballistics (optional)
Ring Gear	
· · · · ·	
Seating	None-Remote controlled by gunner seated in vehicle
Turret Power	Electric, 24 VDC
Traverse (Continuous)	
Weapon/Turret Drive Controls	Electromechanical power controls w/manual back-up
	Stabilization (optional)
Traverse Rates	` '
•	45 degrees per second (minimum)
Tracking Speed	
Elevation Rates	
·	
.	
•	8 degrees
·	Electric
· ·	Electric with manual backup
. •	500,000 cp, coaxial (1,000,000 cp, optional)
Slip Ring	
Ammunition Storage	
· ·	
	200 ready rounds of 7.62mm
Smoke Grenades	8 ready rounds, 8 rounds stored

Specifications are subject to change without notice

90MM Turret



Specifications	
Weight Combat Ready	4,600 lbs (2,086 kg), less crew
Armament	
Main	90-mm Cockerill Cannon
Secondary (coaxial) Provis	sion for mounting 7.62-mm machine gun (weapon optional)
Turret Ring Mount	
	Optional
Ballistic Protection	Protects against direct and indirect weapons
	Higher protection levels available as an option
	Day
	54-inch (137 cm) pitch diameter
<u> </u>	Two-man (commander/loader and gunner)
Turret Power	Electromechanical with manual backup
	Stabilization (optional)
,	
	30 degrees per second
	+28 degrees
Elevation Rate	30 degrees per second
•	8 degrees
Deck Clearance	Automatic with override
•	0.5 mil per second
•	Electrical with manual back-up
	Two-axis
	Power, communication, signal and video pass through
· · · · · ·	500,000 candlepower coaxial mounted spotlight
Ventilation	Turret blower
Ammunition Stowage	
	8 ready rounds in turret
	400 ready rounds in turret; 200 ready rounds at ring mount
	8 ready rounds; 8 rounds stowed
Accessories (standard)	Oddment box in turret
	Stowage for spare coaxial barrel and 90mm weapon service kit

Specifications are subject to change without notice

105MM Turret



Specifications

,	
	8 direct-view blocks with spall shields
	4 periscopes, thermal day/night remote monitor bilized thermal day/night sight with laser range finder
	4 periscopes, auxiliary backup sight
	Special high-hardness steel ballistic plate
· ·	67-inch pitch diameter
Armament	
	Benet M35 lightweight 105-mm gun
•	7.62mm coax
Supplementary Com	
Mount (optional)	7.62-mm or .50 caliber machine gun, or 40-mm grenade launcher (weapons optional)
Overede l'espelence	
	Optional
<u> </u>	Two-man (commander and gunner)
	Electromechanical
_	
Gun/Turret Drive	Electromechanical with manual backup, gunner and commander control
Traverse (Continuous)	
Traverse Rate	750 mil per second (operator cmd)
Elevation/Depression	+15 degrees, -8 degrees
Elevation Rate	100 mil per second (operator cmd)
Tracking Rate	25 mil per second (traverse) 0.1 mil per second (elevation)
Method of Firing	Electrical with manual back-up
Stabilization	Two-axis

About Textron Marine & Land Systems



TM&LS New Orleans shipyard/armored vehicle fabrication facility



TM&LS armored vehicle outfitting facility, Slidell, LA



TM&LS Administrative and Engineering offices, Slidell, LA



TM&LS warehouse facility, Slidell, LA

Textron Marine & Land Systems' roots date back to 1935 as Bell Aircraft Corporation. In 1960, Textron Inc. acquired the defense business, creating Bell Aerosystems Company as one of three operations, until becoming an operating division of Textron Inc. in 1970, when the name changed to Bell Aerospace Textron. In July 1986, the New Orleans operations split from Bell Aerospace and a separate division, Textron Marine Systems, was created.

Cadillac Gage, founded in 1941, became the largest U.S. manufacturer of wheeled combat vehicles. Earning a reputation for high quality, reliable and combat-proven vehicles, this business became Cadillac Gage Textron in 1986.

In 1994, Textron Inc. responded to emerging changes by aligning the combat vehicle operations of Cadillac Gage Textron (CGT) and Textron Marine Systems (TMS).

The new Textron division created through this alignment was named Textron Marine & Land Systems, based in New Orleans, Louisiana. Because of the name recognition and excellent reputation of CGT in the international marketplace, the name Cadillac Gage has been retained for the combat vehicle products of Textron Marine & Land Systems, and the CGT company still exists as a legal entity. Functionally, however, all departments and key personnel work together as part of a unified workforce at the TM&LS facilities in New Orleans and Slidell, Louisiana.

In conjunction with a Textron transformation effort across the corporation that directed realignment, Textron Marine & Land Systems became an operation of Textron Systems in January 2001.

TM&LS is a Capability Maturity Model[®] Integration (CMMI[®]) Level 3 company that provides program management, engineering, manufacturing, and logistics support services on a number of large and complex programs for the DoD, and numerous domestic and international customers.

Textron Systems, a wholly-owned subsidiary of Textron Inc., employs a workforce of 4,880 and is headquartered in Wilmington, MA. The company provides innovative technology solutions to meet the needs of the global aerospace and defense industries, and supports military precision engagement and dominant maneuver with Strike Weapons and Mobility and Surveillance Systems. The Textron Marine & Land Systems Operations, which includes Cadillac Gage Combat Vehicle production, remains located in New Orleans, LA.

