

ATGM Vehicles



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Pandur ATGM Vehicle

Notes: This is a Pandur APC hull fitted with a HOT or TOW launcher turret instead of one of the normal turrets. The HOT-armed version uses the UTM-800 turret, while the TOW-armed model has a K-E Armored Launching Turret.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$206,043	D, A	800 kg	11.44 tons	4	5	Image Intensification, Thermal Imaging	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
221/133	45/27/4	275	94	CiH	W(3)	TF2 TS2 TR2 HF9 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xHOT Launchers or 2xTOW launchers, MAG (C)	10xHOT or TOW ATGM, 2000x7.62mm

AIFV-B-MIL

Notes: This is a Belgian variant of the AIFV. In this version, the turret is removed and replaced with a cupola similar to that of the M-113 series. To the right of this cupola is a quick disconnect mount for a Milan ATGM launcher; in this mount, the weapon remains on its tripod and may be removed from the vehicle in one phase. Attached to the mount, the missile can be steered (but not fired) with the vehicle moving at one-half its normal combat speed. While attached to the vehicle, the Milan is aimed, fired, and steered by a downlinked monitor in the vehicle hull.

As an AIFV variant, the AIFV-B-MIL is equipped with a 6V-53T diesel engine with a power of 267 horsepower, coupled to a semiautomatic transmission and on a torsion bar suspension derived from that of an M113 APC. The vehicle does not normally carry passengers (though there is enough room for two or three in extremis), instead carrying crew enough for a dismount team, a ground mount launcher, and reload missiles.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$247,838	D, A	423 kg	13.1 tons	5	9	Active/Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
142/99	39/28/4	416	97	Std	T2	HF6Sp HS4Sp HR4

Fire Control	Stabilization	Armament	Ammunition
None	None	M-2HB (C), Milan II Launcher	1000x.50, 12xMilan II ATGM

Alvis FV102 Striker ATGM Vehicle

Notes: This is a Spartan APC fitted with a Swingfire ATGM mount. The launcher is a box with space for five Swingfire missiles. The missiles are loaded manually. The missiles may also be fired by radio remote control, with the gunner up to 100 meters from the vehicle. The Striker has an NBC overpressure system. The commander has a No. 26 cupola equipped with a machinegun. At the front of the vehicle are two 4-barrel smoke grenade dischargers. As a Spartan APC variant, the Striker has a 190-horsepower multifuel engine coupled to a manual transmission and supported by a torsion bar suspension.

In 1995, the British Army began upgrading its Strikers. This upgrade consists of a test set that improves reliability of the launchers and missiles, and a fire-and forget mode for the Swingfires. This work was completed in 1996, with 60 vehicles converted to this standard.

The Belgian Army ordered 43 Strikers in 1976, but they had been withdrawn from service by 1995.

Twilight 2000 Notes: The Striker Upgrade was partially accomplished, with 20 vehicles converted. The Belgians opted to keep their Strikers in service.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$169,872	G, AvG, A	400 kg	8.35 tons	3	6	Image Intensification, Thermal Imaging	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
180/126	50/35/5	350	114	Std	T2	HF6 HS3 HR3

Fire Control	Stabilization	Armament	Ammunition
None	None	5xSwingfire launchers, L7A2 (C)	10xSwingfire ATGM, 3000x7.62mm

Alvis FV120 Spartan MCT

Notes: This is a Spartan APC fitted with a turret mounting a Milan ATGM system. The turret has two tubes, and each vehicle also has a tripod ground mount allowing the missiles to be used away from the vehicle. The British Army operates 75 of these vehicles.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$88,928	G, AvG, A	416 kg	8.51 tons	4	6	Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
177/124	49/35/5	390	114	Trtd	T2	TF3 TS3 TR3 HF6 HS3 HR3

Fire Control	Stabilization	Armament	Ammunition
None	None	Twin Milan launcher, L7A2 (C)	14xMilan ATGM, 3000x7.62mm

GKN FV438

Notes: This vehicle is the predecessor of the FV102 Striker ATGM vehicle listed above. This vehicle is based on the FV432 chassis, and has a twin mount instead of the quintuple mount as on the Striker. When the Striker came into service, the FV438s were largely converted into the FV435 Wavell configuration; the missile launchers were removed and the vehicles retrofitted with the Wavell Automatic Data Processing system, essentially converting them into mobile computer platforms for higher echelons of command.

The FV438 has a Rolls-Royce K60 multifuel engine developing 240 horsepower, supported by a torsion bar suspension.

Twilight 2000 Notes: These vehicles were going out of service by the Twilight War, but were hurriedly placed back into service, to supplement FV432-based formations and to replace vehicle losses.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$121,376	G, D, A	371 kg	15.6 tons	4	12	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
116/82	32/23	454	89	Trtd	T2	TF3 TS3 TR3 HF6 HS4 HR3

Fire Control	Stabilization	Armament	Ammunition
None	None	2xSwingfire launchers, MAG (C)	14xSwingfire ATGM, 1200x7.62mm

GKN Simba Antitank Vehicle

Notes: This is a Simba APC version with a turret mounting two launchers for the TOW or HOT ATGM. The Philippines uses the TOW version, and the UK uses the HOT version. The TOW launcher is a hammerhead mount, like that fitted to the M-901 ITV; the HOT launcher is the MCT turret. The Simba AT Vehicle is powered by a Perkins 210 Ti turbocharged diesel engine developing 210 horsepower. There are hatches on either side of the vehicle in the center and a rear door.

Twilight 2000 Notes: Unlike other members of the Simba family, some of these vehicles were sent to Europe with British forces.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
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\$156,532	D, A	480 kg	11.2 tons	4	5	Passive IR	Enclosed
Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor	
163/82	46/23	296	77	CiH	W(3)	TF2 TS2 TR2 HF8 HS3 HR3	
Fire Control	Stabilization	Armament		Ammunition			
+2	None	Twin TOW II or 4xHOT launchers		10xTOW II or HOT ATGM			

LAV with Lancelot HOT Turret

Notes: This is a LAV-25 with the turret replaced with a Lancelot HOT turret. This turret has four HOT ATGM launchers. More reloads are carried inside the vehicle instead of passengers. The turret is a remote casemate, with the controls and gunner sitting inside the hull. This vehicle is used only by Saudi Arabia.

Being built on a LAV II chassis, the LAV with the Lancelot turret is on an 8x4 chassis with the four rear wheels being the drive wheels. The engine is a Detroit Diesel 6V53T (a variant of the M113's engine) supplying 275 horsepower. The vehicle is amphibious, propelled by its wheels in water. The hull may employ the LAST applique armor kit, but the turret may not.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$262,640	D, A	300 kg	12 tons	3	9	Passive IR, Thermal Imaging, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
190/95	52/26/6	300	102	CiH	W(6)	TF2 TS2 TR2 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	Basic	4xHOT Launchers	12xHOT ATGM

LAV-LOSAT

Notes: This vehicle has not been produced in real life, though prototypes have been built

Twilight 2000 Notes: This is a LAV-25 with the normal turret replaced with a 12-tube Hypervelocity Missile launcher turret. This was produced for the US Marines, but a very few were produced, and all of them were deployed to the Middle East. The HVMs were noted for their ability to trash even most opposition main battle tanks.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$767,486	D, A	397 kg	12 tons	3	11	Passive IR, Thermal Imaging	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
190/95	52/26/6	300	102	Trtd	W(6)	TF6 TS4 TR4 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+3	Fair	12-round HVM launcher, C-6 (C)	24xHVM, 600x7.62mm

LAV MPLS (Multiple Purpose Launch System)

Notes: This is a LAV chassis, with the area behind the driver's and commander's positions chopped down and the armor removed to form a flatbed. On this flatbed is a very large turret mounting a quadruple Chaparral mount, a 7-round Hydra-70 rocket pod, and two Hellfire ATGM launchers. Typically, the Chaparrals are for antiaircraft work, the Hydra-70s are for antihelicopter use, and the Hellfires are for antivehicle attacks. The Hydra-70s are also used as artillery rockets in some cases. There is a machinegun mount by the commander's hatch for local defense.

Twilight 2000 Notes: This hybrid system was used only by Saudi Arabia before the Twilight War (in very small numbers) but was manufactured for US and Canadian forces during the war. These vehicles, despite their small numbers, were used to great effect by Saudi and US Marine forces in the Middle East, where they were called "Damnation Machines" by the Russian, Iranian, and Iraqi forces that faced them.

Merc 2000 Notes: An interesting hybrid system, the MPLS very nearly faced a quiet death until the US Military latched onto them for their new Stryker Brigades. (The US Army also experimented with the turret on a Stryker/LAV III chassis, but the resulting vehicle was judged to be too heavy, unwieldy, and expensive.)

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$580,970	D, A	396 kg	14 tons	3	7	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
169/86	47/24/5	300	102	Trtd	W(6)	TF4 TS3 TR3 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+3	Basic	4xChaparral SAM launchers, 7-round Hydra-70 launcher, 2xHellfire ATGM launchers, C-6 (C)	4xChaparral SAMs, 21xHydra-70 rockets, 8xHellfire ATGM, 1000x7.62mm

M17 LAV-AT

Notes: This is the LAV-25 equivalent of the M901 ITV vehicle, originally developed for the US Marines, and then taken into service

by Canada, Kuwait, and Saudi Arabia. The normal turret is replaced with the same turret as mounted on the M-901. The hull is externally almost the same as the standard LAV-25, including the firing ports, except for the hatch layout. The standard driver's hatch is retained, and opposite that is the commander's hatch with a weapon mount. On the rear deck are two large hatches, and below the launcher is another hatch for the gunner. The rear doors are retained.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$76,476	D, A	404 kg	12.29 tons	4	5	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
185/94	52/26/6	300	102	CiH	W(6)	TF2 TS2 TR2 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	Fair	Twin TOW II Launcher, MAG (C)	10xTOW II ATGM, 1620x7.62mm

WZ504

Notes: This is a scout/antitank vehicle based on the Type 86 armored personnel carrier chassis. In this role, a pod containing four HJ73 ATGM launchers is mounted in the vehicle, and raised into position before firing. The vehicle also comes with two ground launchers for the missiles to be deployed away from the vehicle if necessary. Being a variant of the Type 86, the WZ504 has a 298-horsepower diesel engine coupled to a manual transmission, and with a torsion bar suspension. The rear ramp/door is retained, as are the Type 86's four firing ports in each side and one in the rear door. However, the front ports on each side are reachable only by the commander and gunner. There is a smaller hatch on the rear of the roof, used by the scouts or sometimes used in reloading the missile launcher.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$170,735	D, A	396 kg	13 tons	3+4	17	Passive IR (D), Image Intensification (G)	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
156/109	43/30/5	460	116	CiH	T3	TF4 TS4 TR4 HF8 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xHJ73 Launchers	16xHJ73 ATGM

WZ551 Antitank Vehicle

Notes: This is a version of the standard Type 90 wheeled armored personnel carrier, with a one-man ATGM turret. The turret carries 4 Red Arrow 8 tubes. The WZ551 Antitank Vehicle chassis is a smaller 4x4 version of the Type 90 chassis. The Chinese are using this vehicle; it has also been obtained by Bosnia. The vehicle has a BF8L413F turbocharged diesel engine of 320 horsepower coupled to a manual transmission, with independent wheel suspension. The hatch layout is the same as the ZPT-90 version of the APC, with the rear roof hatch being used to reload the missile launcher tubes. The WZ551 AT Vehicle retains the three firing ports on each side and the one in the rear door, including the front firing ports' ability to take a 7.62mm machinegun.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$144,065	D, A	360 kg	12.5 tons	4	11	Passive IR (D), Image Intensification (G)	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
174/88	49/24/3	300	107	Trtd	W(3)	TF2 TS2 TR2 HF5 HS3 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xHJ8 launchers	12xHJ8 ATGM

YW531 Anti-Tank Vehicle

Notes: This is an anti-tank vehicle based on the chassis of the Type 63 armored personnel carrier. A turret with four Red Arrow 8 ATGM launchers is fitted to the roof of the vehicle, and there is a reloading hatch to the rear of this turret. Based on early versions of the Type 63 APC, it does not have firing ports or vision blocks in its sides, but the driver does not have night vision. The YW531 AT Vehicle was used by Vietnam as well as China, and is retained in reserves by those countries. The YW531 AT Vehicle participated in the final fall of South Vietnam in 1975 as well as the putting down of uprisings in China in the 1960s. The engine is a Type 6150L 260-horsepower diesel, making the YW531 AT Vehicle a bit underpowered, and the transmission is manual and difficult to change gears. Four rubber-tired roadwheels are found on each side; they are large, and no return rollers are used.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$117,540	D, A	413 kg	12.8 tons	4	13	Passive IR (D)	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
144/101	40/28/4	450	109	CiH	T4	TF1 TS1 TR1 HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xHJ8 launchers	12xHJ8 ATGM

YW534 Anti-Tank Vehicle

Notes: This is the same idea as the YW531 anti-tank vehicle above, but based on the Type 89 APC chassis. This vehicle has a raised superstructure so that more ammunition may be carried. This vehicle actually went into production before the YW531 AT vehicle (in 1988) and is much more common than that vehicle. The YW534 AT Vehicle's engine is German-designed and license-built, a BF8L413F 320-horsepower turbocharged diesel. The YW534 AT Vehicle can be equipped with external fuel tanks for long-

range operations in addition to its internal fuel; these are mounted at the rear. The YW534 AT Vehicle is amphibious with a minimum of preparation – a trim vane must be erected at the front of the vehicle. The roadwheels of the YW534 AT Vehicle have an uneven distribution, with a gap between the third and fourth roadwheels (of the five roadwheels present). Behind the launcher is a large hatch for missile reloading; the rear door of the Type 89 is retained. The four vision blocks on the right side and three to the left, and the side three firing ports and one in the rear door are retained.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$132,600	D, A	451 kg	15.16 tons	4	9	Passive IR (D)	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
149/104	41/29/4	500+300	170	CiH	T4	TF1 TS1 TR1 HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xHJ8 Launchers	16xHJ8 ATGM

M8 Greyhound TOW Carrier

Notes: This is basically the standard M8 Greyhound with a TOW II missile launcher mounted on the turret in front of the commander's hatch. The Greyhounds had been previously upgraded by replacing the original gasoline engine with a diesel engine, and the addition of night vision equipment.

Twilight 2000 Notes: These vehicles were used only by Columbia at the start of the Twilight War, and they proved very effective against Peruvian, Venezuelan, and Panamanian armor. This was a result as much of the tactics used in their employment as the missile; the Columbian Army was trained in their use by US Army Special Forces before the Twilight War.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$76,137	D, A	438 kg	9 tons	3	9	Passive IR (D)	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
115/58	32/16	212	44	Trtd	W(3)	TF2 TS2 TR2 HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	M2HB, M1919A4, TOW II launcher	400x.50, 1500x.30-06, 8xTOW II ATGM

XA-188 Tank Destroyer

Notes: This is an XA-188 APC fitted with a Kvaerner-Eureka Armored Launcher Turret mounting a 4-tube TOW II ATGM launcher. In this role, the passenger compartment is taken up with the turret, the crew, and ammunition for the launchers. The XA-188 Tank Destroyer has a 246-horsepower Valmet 611 diesel engine with an automatic transmission. There are two rear doors each with a firing port, and four BMP-style firing ports in each side. There is a large hatch on the rear deck which is used to reload the missile launchers. At the front, opposite the driver on the right, is the commander's position; he has a pintle machinegun mount. The vehicle has a GPS navigation system with a mapping module.

Patria also shopped around a version of this concept based on the upgraded XA-203 APC, with a more powerful 295-horsepower Valmet engine to move the upgraded armor suite. This version has firing ports only in the rear doors, but is otherwise similar to its XA-188 counterpart.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
XA-188 Tank Destroyer	\$239,356	D, A	484 kg	18.5 tons	4	11	Passive IR (D), Image Intensification (G, C)	Shielded
XA-203 Tank Destroyer	\$265,358	D, A	411 kg	22.8 tons	4	13	Passive IR (D), Image Intensification (G, C), Thermal Imaging (G)	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
XA-188 Tank Destroyer	125/63	29/15	325	134	CiH	W(4)	TF4 TS4 TR4 HF10 HS5 HR4*
XA-203 Tank Destroyer	111/56	25/13	325	168	CiH	W(4)	TF4 TS4 TR4 HF12 HS6 HR4**

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xTOW II ATGM Launchers, MAG or PKT (C)	12xTOW II ATGM, 850x7.62mm

*Floor armor for this version is 4; roof armor is 3.

**Floor armor for this version is 6; roof armor is 3.

Jaguar

Notes: This is the original version of the Jaguar, and is itself based on the Jagdpanzer Rakete vehicle (which was armed with SS-11 ATGMs), and 316 of the Jaguar 1s are actually rebuilds of the Jagdpanzer Rakete. This vehicle is virtually identical to the Jaguar 2 and 3, but is armed with a HOT ATGM launcher. Most of these vehicles were phased out of front-line service in the mid-to-late 1980s in favor of the cheaper missile and better night vision on the Jaguar 2.

The Jaguar 2 was adopted in the mid-1980s to take advantage of the TOW II's lesser cost per missile and better sighting system. Better night vision was also added. 162 of these conversions were made, all from Jagdpanzer 90 vehicles.

The Jaguar 3 is a version of the Jaguar with an MCT (Milan Compact Turret) installed on the roof instead of the open mount of the HOT or TOW of the Jaguar 1 or 2.

Twilight 2000 Notes: As Notes, except that the Jaguar 3 exists only in the Twilight 2000 World. Only about 40 of these conversions were made before air strikes finally put the conversions of these vehicles to an end. All of these vehicles were converted from Jagdpanzer 90 vehicles.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Jaguar 1	\$93,761	D, G, AvG, A	500 kg	25.5 tons	4	10	Passive IR	Shielded
Jaguar 2	\$173,761	D, G, AvG, A	500 kg	25.6 tons	4	10	Thermal Imaging, Passive IR	Shielded
Jaguar 3	\$203,375	D, G, AvG, A	500 kg	25.65 tons	4	10	Thermal Imaging, Passive IR	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
(All)	131/92	30/20	470	185	Std	T6	HF14 HS7 HR5

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Jaguar 1	None	None	HOT launcher, MG-3 (C)	20xHOT ATGM, 3200x7.62mm
Jaguar 2	+2	None	TOW II Launcher, MG-3 (C)	20xTOW II ATGM, 3200x7.62mm
Jaguar 3	+2	None	2xMilan Launchers, MG-3 (C)	26xMilan II ATGM, 3200x7.62mm

M-113A1G HOT Vehicle

Notes: This is a German ATGM carrier featuring twin HOT launchers on an M-113A1 hull. The HOT launchers are raised through an enlarged version of the standard M-113A1 rear deck hatch. The gunner aims and fires via a downlinked sight and firing mechanism.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$77,578	D, A	750 kg	12 tons	4	7	Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
117/82	25/20/3	360	98	Std	T2	HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition

+2	None	2xHOT Launchers	10xHOT ATGM
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Wiesel Antitank Vehicles

Notes: This version of the Wiesel 1 was developed for the needs of German Army Airborne and Airmobile units. It is a small, lightweight, quick vehicle that is easy to produce and maintain; in fact, many of the automotive components are common to European automobiles, motorcycles, and farm vehicles. The TOW-carrying variant was built to provide light, mobile antitank capability to light infantry forces of various types. The TOW carrier has a hatch on the front right deck for the driver, and hatches on either side of the TOW launcher for the commander and gunner.

The Wiesel HOT/ATM is a Wiesel fitted with the Euromissile HOT/ATM turret, in which two HOT launchers are mounted on a turret with an elevating sensor pod. The pod contains night vision, a laser rangefinder, and a TV camera. The pod may elevate to 1.5 meters over the roof of the Wiesel, and is unmanned, the missiles being guided by a gunner inside the hull of the vehicle via a downlinked TV monitor.

Twilight 2000 Notes: This cheap, fast, and effective tank destroyer was built by the hundreds by the Germans before the Twilight War and employed in a large amount of successful "shoot and scoot" antiarmor ambushes. They were employed not only by Germany, but also in smaller numbers by the US 82nd Airborne Division and 75th Ranger Regiment during the Twilight War, where their small size made them very suitable for airdropping or carrying in or slinging from helicopters. In addition, 7 of them were converted by TACOM in the US to robotic assault vehicles, and field-tested in the Middle East.

Merc 2000 Notes: Like much of the Wiesel line, sales of these vehicles multiplied in the Merc 2000 World.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Wiesel 1 TOW	\$52,114	G, A	300 kg	2.8 tons	3	4	Passive IR	Enclosed
Wiesel HOT/ATM	\$155,078	G, A	300 kg	2.91 tons	3	4	Thermal Imaging, Image Intensification	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Wiesel 1 TOW	196/167	40/30	80	31	Std	T2	HF4 HS2 HR2
Wiesel 1 HOT/ATM	142/99	30/20	80	33	Std	T2	TF2 TS2 TR2 HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Wiesel 1 TOW	+1	None	TOW II Launcher	7xTOW II ATGM
Wiesel 1 HOT/ATM	+3	None	2xHOT Launcher	6xHOT ATGM

Namica

Notes: This Indian vehicle is a Sarath (BMP-2) with the turret removed and replaced with an extendable mount for Nag ATGM. The mount carries three missile tubes and the rear half of the roof is raised to allow for more ammunition storage. The vehicle is equipped with advanced fire control and night vision gear and may fire to a limited extent on the move. Development of this vehicle has been slow (because of the missile system, not the vehicle itself), and it is rather rare.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$248,427	D, G, AvG, A	500 kg	14.5 tons	4	9	Thermal Imaging, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
123/86	25/20/3	462	91	Trtd	T2	TF4 TS4 TR4 HF8 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+4	Basic	3xNag ATGM launchers, MAG (C)	12xNag ATGM, 2000x7.62mm

ASCOD ATGM Vehicle

Notes: This is the ASCOD IFV chassis with the turret replaced by a twin armored mount for TOW missiles. The missiles are reloaded through a hatch on the rear deck. The vehicle gives a decent amount of protection to its crew and good mobility.

Twilight 2000 Story: Only Austria and Spain got any of these ASCOD variants, and they got only a few of them at that.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$196,608	D, A	600 kg	21.9 tons	4	10	Thermal Imaging, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
175/122	35/25	860	213	CiH	T3	TF4 TS4 TR4 HF18 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition
+3	None	Twin TOW II launcher, MG-3 (C)	12xTOW II ATGM, 1500x7.62mm

VCC-ITV

Notes: This is an ATGM vehicle used by Italy and Saudi Arabia. It is the VCC-1 with an ITV system mounted on the deck, and the requisite automatic reloading machinery, as in the M-901 ITV. The MG-42/59 MG is retained as the commander's machinegun.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$86,480	D, A	600 kg	12 tons	4	6	Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
142/100	30/20/3	360	99	CIH	T2	TF2 TS2 TR2 HF6Sp HS4Sp HR4

Fire Control	Stabilization	Armament	Ammunition
None	None	Twin TOW II launchers, MG-42/59 (C)	12xTOW II ATGM, 1000x7.62mm

SU-60 Antitank Vehicle

Notes: This Japanese vehicle is a tank destroyer version of the SU-60 armored personnel carrier. In this version there is a launcher for the KAM-3D antitank missile on either side of the rear deck by the large troop hatch. Instead of passengers, the vehicle carries a small crew and ammunition for the missile launchers.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$77,038	D, A	800 kg	11.2 tons	4	6	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
128/90	30/20	370	82	Stnd	T2	HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+1	None	2xKAM-3D Launchers, MAG (Bow)	12xKAM-3D ATGM, 2200x7.62mm

Scorpion TOW Vehicle

Notes: During the first Persian Gulf War between Iran and Iraq in the 1980s, Iraq captured several Iranian Scorpion light tanks. In trade for some spare parts for its US-made vehicles, Iraq gave Jordan 19 of the Scorpions. (Iraq used older US equipment and vehicles, as she was a US ally until Saddam Hussein came into power.) Jordan took the turrets off these vehicles and replaced them with a TOW II ATGM launcher.

Twilight 2000 Story: These vehicles were rarely used outside of Jordan during the Twilight War, though some were used on the West Bank of the Jordan River against Israeli forces.

Merc 2000 Story: Jordan is marketing its modification to countries who want some more mobile TOW platforms.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$62,669	G, A	300 kg	7 tons	4	5	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
175/123	40/25/4	423	140	CiH	T3	TF1 TS1 TR1 HF6 HS3 HR3

Fire Control	Stabilization	Armament	Ammunition
+2	None	TOW II Launcher, MAG (C)	9xTOW II ATGM, 3000x7.62mm

Type 85 AT-3 Carrier

Notes: This is an ATGM vehicle used by North Korea. It is a Chinese Type 85 armored personnel carrier, with a launching box for AT-3 Sagger ATGMs in the rear of the vehicle. There is a mount for a KPV machinegun near the commander's hatch. Instead of passengers, the passenger compartment of this vehicle carries reloads for the Sagger launcher.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$139,715	D, A	750 kg	12.75 tons	4	9	Active/Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
164/115	35/25/3	400	94	CiH	T4	TF1 TS1 TR1 HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xAT-3 Launchers, KPV (C)	16xAT-3 ATGM, 500x14.5mm

NM-142

Notes: This Norwegian anti-tank vehicle is an M-113A2 with an Armored Launching Turret (ALT) fitted into the passenger bay. This is the same turret mounted on the TIFV-ATV (see Turkish ATGM Vehicles). Norway converted 100 of these vehicles. Also mounted on the turret are four forward-firing smoke grenade launchers.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$101,098	D, A	500 kg	12.25 tons	4	10	Active/Passive IR, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
121/84	25/20/3	360	98	Trtd	T2	TF4 TS4 TR4 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	None	2xTOW II Launchers, M-2HB (C)	10xTOW II ATGM, 1000x.50

BRDM-1 ATGM Vehicle

Notes: This is the basic BRDM-1 scout car fitted with a large opening in the rear and racks mounting AT-1, AT-2, or AT-3 antitank guided missiles. Its purpose was to provide rapid mobile antiarmor capability to mechanized units, and also provide an antitank vehicle light enough to be airdropped or sling-loaded and be used by Naval Infantry. It is still in use by some Third World countries, but has largely been replaced by BRDM-2-based ATGM vehicles; this is especially true with the AT-1 and AT-2 missile carriers.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
BRDM-1/AT-1	\$103,712	G, A	500 kg	5.7 tons	3	4	Active IR	Enclosed
BRDM-1/AT-2	\$126,326	G, A	500 kg	5.75 tons	3	4	Active IR	Enclosed
BRDM-1/AT-3	\$171,554	G, A	500 kg	5.8 tons	3	4	Active IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
BRDM-1/AT-1	138/82	25/15/3	150	52	Std	W(4)	HF4 HS2 HR2
BRDM-1/AT-2	136/82	25/15/3	150	52	Std	W(4)	HF4 HS2 HR2
BRDM-1/AT-3	135/81	25/15/3	150	52	Std	W(4)	HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
BRDM-1/AT-1	None	None	3xAT-1 Launchers	6xAT-1 ATGM
BRDM-1/AT-2	None	None	4xAT-2 Launchers	8xAT-2 ATGM
BRDM-1/AT-3	None	None	6xAT-3 Launchers	12xAT-3 ATGM

BRDM-2 ATGM Vehicle

Notes: This vehicle is a tank destroyer version of the BRDM-2 scout car, along the same lines as the BRDM-1 ATGM Vehicle. They were first seen in public used by Egyptian and Syrian forces against the Israelis in the 1973 Yom Kippur war, carrying AT-2 or AT-3 missiles, and have been steadily upgraded since then. The launcher can be raised for firing or lowered under armor protection if necessary, and the gunner stays under armor protection. By 2000, the AT-2-armed version was almost never seen, and the AT-3 armed version rare; most versions of this vehicle are armed with AT-4 or AT-5 missiles, and these versions can be armed with a mixture of both depending on the wishes of the crew.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
BRDM-2/AT-2	\$127,123	G, AvG, A	600 kg	7 tons	3	4	Passive IR	Shielded
BRDM-2/AT-3	\$175,901	G, AvG, A	600 kg	7 tons	3	4	Passive IR	Shielded
BRDM-2/AT-4/5	\$158,537	G, AvG, A	600 kg	7 tons	3	4	Passive IR	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
BRDM-2/AT-2	174/105	30/18/3	290	81	CiH	W(4)	TF1 TS1 TR1 HF6 HS3 HR2
BRDM-2/AT-3	173/104	29/18/3	290	81	CiH	W(4)	TF1 TS1 TR1 HF6 HS3 HR2

BRDM-2/AT-4/5	173/104	29/19/3	290	81	CiH	W(4)	TF1 TS1 TR1 HF6 HS3 HR2
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Vehicle	Fire Control	Stabilization	Armament	Ammunition
BRDM-2/AT-2	+2	None	4xAT-2 Launchers	8xAT-2 ATGM
BRDM-2/AT-3	+2	None	6xAT-3 Launchers	14xAT-3 ATGM
BRDM-2/AT-4/5	+2	Basic	10xAT-4/AT-5 Launchers	15xAT-4 or 15xAT-5 ATGM

BTR-RD Robot

Notes: Despite the name, this is not a robot in the western sense of the word; instead, this is an ATGM carrier version of the BTR-D airborne combat vehicle. A large single-piece hatch is provided at the front part of the vehicle, and a retractable AT-5 ATGM launcher is raised and lowered through this hatch. This weapon can be operated via a remote control at a range of 20 meters. The BTR-RD also carries a tripod-mounted AT-4 ATGM launcher as part of its basic load.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$113,932	D, A	500 kg	9.5 tons	5	7	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Type	Config	Susp	Armor
160/112	35/35/5	300	83	Tank Destroyer	Std	T4	HF8 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
None	None	AT-5 launcher, tripod-mounted AT-4 launcher, 2xPKT (bow)	12xAT-5 ATGM, 12xAT-4 ATGM, 1000x7.62mm

KBM Khризantema/BMP-3

Notes: The KBM Khризantema (Chrysanthemum) tank destroyer is an ATGM vehicle based upon the BMP-3 chassis. Armament consists of a twin AT-15 Chrysanthemum ATGM launcher on a telescoping mast. The vehicle has a two-man crew; the driver sits on the front left, and the commander on the front right. The commander aims and fires the missiles via a downlinked sight. It is possible for the commander to engage two targets at once if he uses a different method of guidance for each missile. The missiles are automatically reloaded when the mast is retracted into the vehicle. The Russians are actively seeking buyers for this advanced tank destroyer.

Twilight 2000 Notes: This vehicle was unheard of outside of Russia until units of the Panzergruppe Oberdorf encountered them in late 1998 near Kalisz.

Merc 2000 Notes: Though Russia eventually built some for themselves, the first customers of this vehicle were actually the South Koreans.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$118,482	D, G, AvG, A	750 kg	19.4 tons	2	9	Passive IR, Image Intensification, Radar	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
132/93	30/20/4	462	135	CiH	T3	TF2 TS2 TR2 HF8 HS4 HR4

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Fire Control	Stabilization	Armament	Ammunition
None	None	Twin AT-15 launcher	15xAT-15 ATGM

Volks Kornet-E/BMP-3

Notes: This is an ATGM vehicle used by Russia, based upon the BMP chassis. The turret has been replaced by a twin launcher for AT-14 Kornet missiles. This launcher is retracted into the hull between firings, where it is automatically reloaded. The Volks Kornet-E/BMP-3 also carries a ground mount for the missiles, which can be dismounted and used away from the vehicle. The bow machineguns of the standard BMP-3 have also been removed, as have firing ports, troop hatches, and rear door. The vehicle mount is reloaded from two 6-round internal magazines; one is typically loaded with HEAT rounds and one with FAE rounds. The driver is seated in the center of the front with the gunner to the rear of him, and the commander to the right of the driver.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$176,732	D, G, AvG, A	750 kg	19.4 tons	3	9	Passive IR, Image Intensification, Thermal Imaging	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
170/119	35/25/4	462	183	CiH	T3	TF2 TS2 TR2 HF8 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
None	None	Twin AT-14 launcher	14xAT-14 ATGM

Volks AT-6-MT-LB

Notes: This version of the MT-LB APC was first fielded in 1990. It is a standard MT-LB with an external mount for a single AT-6 Spiral missile launcher. This launcher can be retracted under armor protection for reloading purposes, though it is then manually reloaded. The AT-6/MT-LB is fitted with night vision devices and sights for the missiles. The vehicle is otherwise identical to the standard MT-LB.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$77,789	D, A	700 kg	12.3 tons	3	7	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
135/94	30/20/3	450	88	CiH	T3	TF1 TS1 TR1 HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	AT-6 launcher	13xAT-6 ATGM

AI-Fahd AF-40-8-2 Anti-Armor Vehicle

Notes: This is a basic AI-Fahd APC with a hammerhead mount for a TOW ATGM. In this version, the rear ramp is deleted, and the passenger space is largely taken up by the turret and ammunition. The seat to the right of the driver is retained, and may be used for a passenger.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$173,752	D, A	550 kg	15.3 tons	4+1	7	Passive IR, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
300/180	45/27/5	550	202	CIH	W(6)	TF4 TS4 TR4 HF12Sp HS5Sp HR3

Fire Control	Stabilization	Armament	Ammunition
+2	None	Twin TOW II Launcher, MAG (C)	14xTOW II, 1100x7.62mm

Bv-2062/Bv-2063

Notes: These are light antitank vehicles based on the Bv-206 all-terrain vehicle. In this role, the top of each section is cut down. On the forward section there is a railing framework, and either a TOW launcher (Bv-2062) or Bill or Bill 2 launcher (Bv-2063). Inside the rear section are lockers for missiles. The launcher can be easily dismounted and used from the ground. These vehicles are primarily used by Swedish Norrlands Brigades, due to their over-the-snow capability.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Bv-2062	\$37,390	D, A	400 kg	6.5 tons	4	6	Passive IR	Open
Bv-2063	\$39,260	D, A	400 kg	6.5 tons	4	6	Passive IR	Open

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
(Both)	142/99	30/20/3	360	50	Std	T2	HF1 HS1 HR1

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Bv-2062	+2	None	TOW II Launcher	8xTOW II ATGM
Bv-2063	+2	None	Bill Launcher	8xBill or Bill 2 ATGM

PbRbBv-452

Notes: This Swedish ATGM vehicle made its first appearance in early 1999, though it was not type standardized until late 1999. It is an MT-LB with a triple Bill launcher mounted above the hull on an elevated mount.

Twilight 2000 Notes: These vehicles proved to be a thorn in the side of Russian forces in the late years of the Twilight War and during the border incidents afterwards.

Merc 2000 Notes: These vehicles were experimented with, but never mass-produced.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$204,717	D, A	1.2 tons	13.36 tons	3+3	8	Passive IR, Thermal Imaging, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
125/87	25/20/3	450	86	Trtd	T4	TF2 TS2 TR2 HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+3	None	Triple Bill Launcher	18xBill 1 or Bill 2 ATGM

PbRbBv-91

Notes: This is a Swedish ATGM vehicle based on the lkv-91 chassis. The turret of the base lkv-91 vehicle has been removed, and in its place are a single TOW missile launcher and two large hatches for the gunner. There is another hatch on the deck added for the commander. This vehicle was produced because the TOW missile was superior in damaging potential than the lkv-91's main gun.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$66,204	D, A	900 kg	12 tons	4	7	Active/Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
178/124	40/25/4	400	122	Std	T4	HF10 HS6 HR4

Fire Control	Stabilization	Armament	Ammunition
+3	None	TOW II Launcher, MAG (C)	12xTOW ATGM, 1100x7.62mm

PbRbBv-551

Notes: This is a Swedish ATGM vehicle, armed with a TOW II launcher. It is based on an older infantry cannon vehicle that was withdrawn from service. The engine and transmission have been replaced, the crew compartment has been extended to the rear of the hull, and armor protection has been improved. The TOW launcher is carried inside the hull and raised before firing.

Twilight 2000 Notes: 57 of these conversions were accomplished before the Twilight War began.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$63,522	G, A	1 ton	9.6 tons	4	6	Passive IR (Gunner only)	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
102/71	20/15	260	79	Std	T2	HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	TOW II Launcher, MAG (C)	12xTOW II ATGM, 1500x7.62mm

PbRbBv-552

Notes: This is a variant of the PbRbBv-551 ATGM vehicle listed above, but armed with a triple launcher for the superior Bill missile. The Bill launcher is on a raised mount above the vehicle, and fired from within the vehicle via a downlink.

Twilight 2000 Notes: Few of these conversions were made before the Twilight War, though several were done once the war commenced.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$112,250	G, A	1 ton	9.67 tons	4	6	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
101/71	20/15	260	79	Std	T2	HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+3	None	Triple Bill Launcher, MAG (C)	18xBill 1 or 2 ATGM, 1500x7.62mm

Cobra TOW Carrier

Notes: This is a Cobra armored personnel carrier with the turret deleted and a mount for a TOW II ATGM replacing it. Instead of carrying passengers, the interior carries the crew and missiles for the TOW launcher.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$48,291	D, A	400 kg	6.2 tons	5	5	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
261/157	40/24/4	145	70	Std	W(3)	HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	TOW II Launcher	8xTOW II ATGM

TIFV-ATV

Notes: The TIFV-ATV (Armored TOW Vehicle) is an ATGM vehicle based on the TIFV chassis. The turret is replaced with one mounting a twin TOW launcher of Turkish design.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$100,151	D, A	600 kg	13.69 tons	4	8	Active/Passive IR, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
149/105	30/20/3	416	111	Trtd	T2	TF4 TS4 TR4 HF8Sp HS4Sp HR3Sp

Fire Control	Stabilization	Armament	Ammunition
+2	None	Twin TOW launcher, M-2HB (C)	10xTOW II ATGM, 500x.50

Dragoon TOW Vehicle

Notes: This is a Dragoon basic APC with the rear area taken up by a turntable-mounted TOW launcher and ammunition. The hatch design is similar to the AMC, with the sliding hatch being replaced with two large hatches opening right and left.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$100,000 (R/R)	D, A	500 kg	11 tons	3	6	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Type	Config	Susp	Armor
225/100	50/23/5	350	89	Tank Destroyer	Std	W(4)	HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+12	None	TOW II Launcher, M-2HB	6xTOW II ATGM, 600x.50BMG

HMMWV LOSAT

Notes: The HMMWV LOSAT (Line-Of-Sight Anti-Tank) is a HMMWV M-1044A1 modified to carry a quadruple Hypervelocity Missile System over the roof in a fairing. It is otherwise like the M-1044A1, except as follows.

Twilight 2000 Notes: This vehicle does not exist.

Merc 2000 Notes: This vehicle was first seen in service in 2007.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$83,665	D, G, A	200 kg	5.08 tons	3	2	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
192/76	48/19	95	41	Std	W(3)	HF2 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+2	None	4xLOSAT Launchers	8xLOSAT

HMMWV TOW Carrier M-1046A1

Notes: The standard Hummer fitted with a TOW launch system and supplemental armor consisting of Kevlar panels. The rear area is fitted with racks for TOW missiles and a ground-mount system to be used if necessary.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$42,875	D, G, A	250 kg	5.04 tons	3	2	Active/Passive IR	Open

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor

214/86	54/22	95	47	Std	W(3)	HF2 HS2 HR2
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Fire Control	Armament	Ammunition
None	TOW Launcher	10 x TOW ATGM

LAV-150 TUA

Notes: This is a LAV-150 fitted with a hammerhead mount for a TOW weapons system, similar to that mounted on the M-901 ITV. It is a rare system.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$67,450	D, A	450 kg	7.3 tons	4	4	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
234/94	59/24/6	303	96	CiH	W(3)	TF2 TS2 TR2 HF5 HS3 HR3

Fire Control	Stabilization	Armament	Ammunition
None	None	Twin TOW II launcher	8xTOW II

LAV-300 TUA

Notes: The V-300 series is a 6x6 wheeled armored vehicle manufactured by Cadillac Gage, but was not adopted by the US Army. Panama and Kuwait adopted it. The TUA (TOW Under Armor) version is one of two TOW versions; the other has a non-turreted pintle mount. The V-300 is fully amphibious. The vehicle has two (small) side doors and a rear exit ramp, plus a commander's hatch in the middle top deck.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$72,888	D, A	400 kg	12.33 tons	4	5	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
168/66	42/17/4	435	101	CiH	W(3)	TF2 TS2 TR2 HF8 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition
+1	None	Twin TOW launcher, MAG (C)	10xTOW II ATGM, 2000x7.62mm

M-233A1

Notes: This was the US Army's solution to making TOW ATGM launchers more mobile before the advent of the M-901A1, and it is still being used by many countries, including Israel and some US Army National Guard units. It is basically a standard M-113A1 or A2 with a stand for a TOW II ATGM launcher in the passenger area, and racks for reload missiles. The TOW launcher may be raised and lowered through the deck hatch, which is enlarged for this role. The gunner must put his head and chest outside the vehicle to aim and fire the launcher. In Israeli service, this vehicle is also used with the MAPATS launcher.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
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\$58,464	D, A	750 kg	11.8 tons	4	7	Passive IR	Shielded
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Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
118/83	25/20/3	360	98	Std	T2	HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	None	TOW II Launcher	10xTOW II ATGM

M-901A1 ITV

Notes: The ITV (Improved TOW Vehicle) is a development of the M-113A2 armored personnel carrier designed to provide mobile antiarmor capability to mechanized infantry formations. The base M-113A2 chassis is equipped with a roof-mounted twin launcher for TOW missiles. This launcher is a "hammerhead" mount that may be raised for firing or lowered to allow the launchers to be reloaded with the minimum crew exposure to hostile fire. The missiles are aimed and fired from a downlinked position inside the vehicle. The launcher may be rotated 360 degrees and accepts any type of TOW missile except the TOW III. The hammerhead mount has been adapted to over a dozen vehicles throughout the world. Besides the US (who deploys them in large numbers), the ITV is used by Egypt, Greece, Jordan, Kuwait, Pakistan, and Thailand.

Twilight 2000 Notes: These vehicles were beginning to be replaced by the M-3 variant of the Bradley in US service before the Twilight War, but most US stocks were returned to duty during that conflict.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$84,693	D, A	700 kg	11.79 tons	4	7	Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
119/83	25/20/3	360	98	CiH	T2	TF2 TS2 TR2 HF6 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+2	Fair	Twin TOW Launcher, M-60 (C)	10xTOW II ATGM, 1000x7.62mm

BOV-1 ATGM Vehicle

Notes: This is a BOV-M armored personnel carrier fitted with launchers for AT-3 or Maljutka missiles. These vehicles were very common antitank vehicles in Yugoslavian service and in her splinter republics, as they were cheap and easy to maintain. The vehicle retains its two firing ports in each side, and the gunner must put his head and chest outside a hatch in the roof to use the sight for the missiles.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$140,289	D, A	400 kg	6 tons	4	4	Active IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
211/127	34/21	220	54	Trtd	W(2)	TF1 TS1 TR1 HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
+1	None	6xAT-3/Maljutka launchers	6xAT-3 or Maljutka ATGM