

## **Tracked Light Combat Vehicles**

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**4K 7FA FSCV 90**

Notes: This is a fire support variant of the Steyr 4K 7FA-KSPz armored personnel carrier. The basic chassis is topped with a turret mounting a 90mm French or NATO gun, and ammunition is carried instead of most passengers. Two passengers are retained as scouts so the vehicle can be used for reconnaissance. The top hatch is replaced by the turret, but all other hatches are retained, and two hatches are in the turret for the commander and gunner. This vehicle is used in small numbers by Switzerland and Greece.

| Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision                      | Radiological |
|-----------|-----------|--------|------------|------|-----|-----------------------------------|--------------|
| \$222,375 | D, A      | 500 kg | 16.95 tons | 3+2  | 7   | Passive IR, Image Intensification | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 129/91 | 30/21   | 360      | 118       | Trtd   | T3   | TF5 TS5 TR5 HF6 HS4 HR4 |

| Fire Control | Stabilization | Armament                                | Ammunition                    |
|--------------|---------------|---|-------------------------------|
| +2           | Fair          | 90mm NATO or French gun, MAG, M-2HB (C) | 64x90mm, 2000x7.62mm, 500x.50 |

**4K 7FA Rasit**

Notes: This is a 4K 7FA KSPz armored personnel carrier modified to carry the Rasit ground surveillance radar and a computerized management system as well as extra radios and a datalink system to higher headquarters. The M-2HB turret is removed in this vehicle. The radar has a range of 30 km and may be operated by a cable at a range of 30 meters.

| Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|------------|------|-----|--------------|--------------|
| \$254,012 | D, A      | 500 kg | 15.26 tons | 4    | 11  | Radar        | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 82/58  | 19/14   | 360      | 117       | ClH    | T3   | TF1 TS1 TR1 HF6 HS4 HR4 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| None         | None          | MAG (C)  | 1600x7.62mm |

**SK-105 Kürassier**

Notes: While the chassis of this light tank is of Austrian design, the turret is a modified form of that found on the AMX-13. The Kürassier, however, is afforded with a better night vision suite and better fire control than the AMX-13, and uses a 105mm gun as standard. The turret uses the same two-magazine system with 6 rounds each, and as with the AMX-13, the spent shell casings are ejected out of the rear of the turret. There are three light tank variations of the SK-105 in service; export customers such as Argentina, Bolivia, Morocco, and Tunisia mostly use the SK-105/A1; the SK-105/A2 is the version most commonly encountered in Austrian service; and the SK-105/A3 was the newest version, in limited production before and during the war. In addition, appliqué armor of the same capabilities as that available for the AMX-13 is available for the SK-105 (however, an AMX-13 kit will not fit the SK-105 and vice versa).

| Vehicle   | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|-----------|--------|-----------|------|-----|-------------------|--------------|
| SK-105/A1 | \$213,832 | D, A      | 400 kg | 17.7 tons | 3    | 8   | Active/Passive IR | Enclosed     |

## Austrian Tracked Light Combat Vehicles

|           |           |      |        |           |   |   |                                   |          |
|-----------|-----------|------|--------|-----------|---|---|-----------------------------------|----------|
| SK-105/A2 | \$253,832 | D, A | 400 kg | 17.8 tons | 3 | 8 | Passive IR                        | Enclosed |
| SK-105/A3 | \$255,202 | D, A | 400 kg | 19.1 tons | 3 | 8 | Passive IR, Image Intensification | Enclosed |

| Vehicle   | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                      |
|-----------|--------|---------|----------|-----------|--------|------|----------------------------|
| SK-105/A1 | 116/81 | 27/19   | 420      | 111       | Trtd   | T3   | TF6 TS5 TR3 HF8 HS4 HR2    |
| SK-105/A2 | 110/77 | 26/18   | 420      | 101       | Trtd   | T3   | TF6 TS5 TR3 HF8 HS4 HR2    |
| SK-105/A3 | 118/83 | 28/19   | 420      | 115       | Trtd   | T3   | TF13 TS10 TR6 HF16 HS8 HR4 |

| Vehicle   | Fire Control | Stabilization | Armament                         | Ammunition            |
|-----------|--------------|---------------|----------------------------------|-----------------------|
| SK-105/A1 | +2           | Fair          | 105mm French Gun, MG-3, MG-3 (C) | 41x105mm, 2000x7.62mm |
| SK-105/A2 | +3           | Fair          | 105mm French Gun, MG-3, MG-3 (C) | 41x105mm, 2000x7.62mm |
| SK-105/A3 | +4           | Good          | 105mm M-68 Gun, MAG, MG-3 (C)    | 41x105mm, 2000x7.62mm |

**X-1A/A1/A2**

Notes: These light tanks are a rebuild of the World- War 2 era M-3A1 Stuart, with a new suspension, new diesel engine, new turret, heavier armament, and a new fire-control system. These were adopted by the Brazilian Army in the early 1970s, and 80 were delivered. The driver has a hatch on the front left side, and the commander and loader have hatches on the turret deck. The gunner uses loader's hatch. The X-1A is essentially an M-3A1 with a new engine and armament. The X-1A1 is a stretched X-1A.

The X-1A2 is an improved version of the X-1A. Improvements have been made in the turret and hull armor, night vision has been added, a laser rangefinder has been installed, and air conditioning is provided. The engine is also more powerful, to cope with the added weight, and the fuel tanks are larger. Only 30 of these light tanks were delivered between 1979 and 1983.

| Vehicle | Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision      | Radiological |
|---------|-----------|-----------|--------|---------|------|-----|-------------------|--------------|
| X-1A    | \$167,817 | D, A      | 400 kg | 15 tons | 4    | 6   | Headlights        | Enclosed     |
| X-1A1   | \$168,326 | D, A      | 400 kg | 17 tons | 4    | 6   | Headlights        | Enclosed     |
| X-1A2   | \$204,873 | D, A      | 450 kg | 19 tons | 4    | 8   | Active/Passive IR | Enclosed     |

| Vehicle | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                    |
|---------|--------|---------|----------|-----------|--------|------|--------------------------|
| X-1A    | 126/88 | 29/21   | 245      | 83        | Trtd   | T2   | TF6 TS5 TR5 HF8 HS4 HR4  |
| X-1A1   | 116/81 | 27/19   | 320      | 83        | Trtd   | T3   | TF6 TS5 TR5 HF8 HS4 HR4  |
| X-1A2   | 112/79 | 26/18   | 600      | 89        | Trtd   | T3   | TF8 TS6 TR5 HF10 HS6 HR4 |

| Vehicle | Fire Control | Stabilization | Armament                           | Ammunition                    |
|---------|--------------|---------------|------------------------------------|-------------------------------|
| X-1A    | +1           | Fair          | 90mm French Gun, MAG, M-2HB (C)    | 44x90mm, 2240x7.62mm, 670x.50 |
| X-1A1   | +2           | Fair          | 90mm French Gun, MAG, M-2HB (C)    | 59x90mm, 2240x7.62mm, 670x.50 |
| X-1A2   | +3           | Fair          | 90mm Cockerill Gun, MAG, M-2HB (C) | 66x90mm, 2500x7.62mm, 750x.50 |

**FV-101 Scorpion**

Notes: Officially named the CVR-T (Combat Vehicle Reconnaissance – Tracked) by the British military, the Scorpion (also known as the Scorpion-76 to distinguish it from later 90mm-armed versions) is a light tank and scout vehicle developed to replace the Saladin armored car. The first versions appeared in British ranks in 1972, and by 1987 over 3500 were built for the British Army and for export. Most British Scorpions were replaced by the later Scimitar and Sabre, and the Scorpions sold to other countries (especially the turrets, which could be mounted on many different vehicles), but remaining stocks in England were recalled quickly when the war started. Most British and Australian Scorpions have diesel instead of gasoline engines, but most export versions still have the original engine. There is a hatch on the front left deck for the driver and two hatches on the turret deck for the commander and gunner. Commander's weapons are not fitted by default, but many such field modifications were carried out during the war. The Scorpion requires a flotation screen to be raised to be amphibious; this takes about 5 minutes.

The Scorpion-90 is the standard FV-101 Scorpion light tank, but with a 90mm Cockerill gun instead of the standard 76mm Cockerill. These vehicles were normally built with a diesel engine instead of the normal gasoline engine. They were built primarily for export, and Malaysia, Nigeria, Venezuela, and a few other countries ordered this variant.

Twilight 2000 Notes: They were in official service with 15 countries by the time of the Twilight War; one unusual user was the US Army and Marines, who ordered about 40 of them before the war for evaluation purposes, then put them to use during the war with about 12 going to the Marines and the other 28 going to the US Army's 9<sup>th</sup> Infantry Division.

An unusual customer for the Scorpion-90 was the US Marines, who had a number of them on loan from Britain before the Twilight War for evaluation as a fire support vehicle; when the Marines were deployed to Norway, they bought the test vehicles and ordered a few more for use in that campaign.

| Vehicle              | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|----------------------|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| Scorpion-76 (Gas)    | \$144,902 | G, A      | 300 kg | 8.07 tons | 3    | 5   | Passive IR   | Enclosed     |
| Scorpion-76 (Diesel) | \$144,937 | D, A      | 300 kg | 8.1 tons  | 3    | 5   | Passive IR   | Enclosed     |
| Scorpion-90 (Gas)    | \$155,189 | G, A      | 300 kg | 8.72 tons | 3    | 5   | Passive IR   | Enclosed     |
| Scorpion-90 (Diesel) | \$155,224 | D, A      | 300 kg | 8.76 tons | 3    | 5   | Passive IR   | Enclosed     |

| Vehicle              | Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|----------------------|---------|---------|----------|-----------|--------|------|-------------------------|
| Scorpion-76 (Gas)    | 143/100 | 33/23/4 | 423      | 130       | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |
| Scorpion-76 (Diesel) | 149/104 | 35/24/4 | 423      | 68        | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |
| Scorpion-90 (Gas)    | 134/94  | 31/22/3 | 391      | 130       | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |
| Scorpion-90 (Diesel) | 148/104 | 34/24/4 | 391      | 73        | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |

| Vehicle            | Fire Control | Stabilization | Armament                  | Ammunition           |
|--------------------|--------------|---------------|---------------------------|----------------------|
| Scorpion-76 (Both) | +2           | Fair          | 76mm Cockerill Gun, EX-34 | 40x76mm, 3000x7.62mm |
| Scorpion-90 (Both) | +2           | Fair          | 90mm Cockerill Gun, EX-34 | 33x90mm, 3000x7.62mm |

**FV-107 Scimitar**

Notes: This is basically a Scorpion with a slightly different turret mounting a 30mm Rarden autocannon instead of the 76mm gun. Other than being slightly lighter than the Scorpion and having a smoother-riding suspension and better night vision suite, the Scimitar is identical to the Scorpion. Most British versions are diesel powered, but most export versions are gasoline powered.

The Sabre is a Scorpion light tank fitted with the turret of the Fox armored car, along with some upgrades in engine, transmission, smoke grenade launchers, and stowage. This was done to save money on the introduction of a new reconnaissance vehicle.

Twilight 2000 Notes: 104 Sabre conversions were carried out before the Twilight War, but few were carried out after the war began as it was felt, as many vehicles would be needed as possible.

| Vehicle           | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision                                       | Radiological |
|-------------------|-----------|-----------|--------|-----------|------|-----|--|--------------|
| Scimitar (Gas)    | \$213,913 | G, A      | 300 kg | 7.8 tons  | 3    | 4   | Passive IR, Image Intensification                  | Enclosed     |
| Scimitar (Diesel) | \$213,948 | D, A      | 300 kg | 7.84 tons | 3    | 4   | Passive IR, Image Intensification                  | Enclosed     |
| Sabre             | \$294,033 | D, A      | 300 kg | 8.03 tons | 3    | 5   | Passive IR, Image Intensification, Thermal Imaging | Shielded     |

| Vehicle           | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|-------------------|--------|---------|----------|-----------|--------|------|-------------------------|
| Scimitar (Gas)    | 87/61  | 20/14/2 | 423      | 65        | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |
| Scimitar (Diesel) | 94/66  | 22/15/2 | 423      | 36        | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |
| Sabre             | 107/75 | 25/18/3 | 423      | 42        | Trtd   | T3   | TF5 TS4 TR4 HF6 HS3 HR3 |

| Vehicle         | Fire Control | Stabilization | Armament           | Ammunition            |
|-----------------|--------------|---------------|--------------------|-----------------------|
| Scimitar (Both) | +2           | Fair          | 30mm Rarden, EX-34 | 165x30mm, 3000x7.62mm |
| Sabre           | +3           | Good          | 30mm Rarden, EX-34 | 200x30mm, 3000x7.62mm |

**FV-432 Radar Vehicle**

Notes: This is an FV-432 armored personnel carrier fitted with a counterbattery/ground surveillance radar set. The radar has a ground surveillance range of 10 km and a counterbattery range of 20 km. The radar and the associated takes up almost the entire passenger area of the vehicle, and there is no room for passengers.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| \$295,186 | G, D, A   | 300 kg | 19.3 tons | 4    | 13  | Radar        | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 92/64  | 21/15   | 454      | 70        | Trtd   | T2   | TF2 TS2 TR2 HF6 HS4 HR3 |

| Fire Control | Stabilization | Armament  | Ammunition  |
|--------------|---------------|-----------|-------------|
| None         | None          | L-7A2 (C) | 1600x7.62mm |

**KshTMS**

Notes: This is a Bulgarian modification of the ACRV (MT-LBus) chassis, used as a command post vehicle at battalion level or above. In this role, the vehicle has at least 3 radios, a computer with wireless modem and LAN capability, a teletype or teleprinter, and a tent that may be erected up to 100 meters away from the vehicle and connected by a fiberoptic cable. The tent is big enough for the crew and staff of the vehicle, plus 4 other people, or more standing.

| Price     | Fuel Type | Load  | Veh Wt     | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|-------|------------|------|-----|--------------|--------------|
| \$124,822 | D, A      | 1 ton | 12.75 tons | 4+3  | 9   | Headlights   | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor       |
|--------|---------|----------|-----------|--------|------|-------------|
| 103/72 | 24/17/2 | 550      | 53        | Stnd   | T3   | HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| None         | None          | PK (C)   | 2000x7.62mm |

**Type 62 Light Tank**

Notes: This is a scaled-down version of the T-55 main battle tank built by China and used by China, Albania, North Korea, and several African nations. The Type 62 has an exhaust smoke-laying ability, and is amphibious. The Type 62 has a laser rangefinder and is designed for rugged terrain, with a self-recovery capability. The layout is identical to the T-55.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|---------|------|-----|--------------|--------------|
| \$172,764 | D, A      | 400 kg | 21 tons | 4    | 8   | Headlights   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|--------|---------|----------|-----------|--------|------|---------------------------|
| 133/93 | 31/22   | 730      | 159       | Trtd   | T3   | TF10 TS7 TR6 HF12 HS6 HR4 |

| Fire Control | Stabilization | Armament                           | Ammunition                        |
|--------------|---------------|------------------------------------|-----------------------------------|
| +2           | Basic         | 85mm gun, PKT, PKT (Bow), DShK (C) | 47x85mm, 1750x7.62mm, 1200x12.7mm |

**Type 63 Light Tank**

Notes: A Chinese version of the PT-76, used by China, North Korea, Pakistan, Sudan, and Vietnam, with a beefed-up suspension, transmission, and engine, and more powerful gun.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| \$166,706 | D, A      | 800 kg | 18.4 tons | 4    | 9   | Headlights   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 139/98 | 33/23/3 | 403      | 147       | Trtd   | T3   | TF6 TS6 TR6 HF8 HS4 HR4 |

| Fire Control | Stabilization | Armament                | Ammunition                       |
|--------------|---------------|-------------------------|----------------------------------|
| +1           | Basic         | 85mm gun, PKT, DShK (C) | 47x85mm, 2000x7.62mm, 500x12.7mm |

**Type 90 Command Post Carrier**

Notes: This is a command post version of the Type 90 armored personnel carrier. This version has a raised rear section with two man-sized and one large hatch, and a rear door. The vehicle has at least 3 radios, a 10-meter antenna mast, and a gasoline-powered 5kW generator to power the equipment. Some of these vehicles also have computers for various tasks.

| Price    | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision                      | Radiological |
|----------|-----------|--------|---------|------|-----|-----------------------------------|--------------|
| \$91,467 | D, A      | 2 tons | 19 tons | 6    | 10  | Passive IR, Image Intensification | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor       |
|--------|---------|----------|-----------|--------|------|-------------|
| 112/78 | 26/18/3 | 520      | 107       | Std    | T3   | HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament | Ammunition |
|--------------|---------------|----------|------------|
|              |               |          |            |



None

None

W-85 (C)

1050x12.7mm

**DK-1**

Notes: This is another development of the M-41 used by Denmark. Modifications consist of a smaller and more powerful engine, four grenade launchers on either side of the turret, an NBC overpressure system and radiation shielding, internal ammunition stowage has been rearranged for more room, and better night vision has been installed. Appliqué armor has been added.

Twilight 2000 Notes: 53 of these conversions were carried out by the Twilight War, and an unknown, though small, number after the start of the war.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision                                      | Radiological |
|-----------|-----------|--------|---------|------|-----|---|--------------|
| \$209,252 | D, A      | 700 kg | 25 tons | 4    | 10  | Passive IR, Image Intensification, WL Searchlight | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|--------|---------|----------|-----------|--------|------|---------------------------|
| 125/88 | 29/21   | 930      | 137       | Trtd   | T4   | TF10 TS7 TR7 HF12 HS6 HR6 |

| Fire Control | Stabilization | Armament                       | Ammunition          |
|--------------|---------------|--------------------------------|---------------------|
| +2           | Fair          | 76mm Cockerill, MG-3, MG-3 (C) | 68x76mm, 6000x7.62N |

**AIFV PMORS**

Notes: This is a Dutch variant of the AIFV, used for battlefield surveillance and artillery spotting. In this role, the AIFV's turret is removed, and the roof of the rear compartment has an extendable 4-meter mast containing sensors. The sensors include a thermal vision camera, an image intensifier, a video camera, a shotgun microphone, a radio direction finder, a radar detector, and antennas for intercepting enemy radio signals. Inside the rear compartment are at least three radios, a small computer, and positions for operators and intelligence analysts. On the rear deck is a 10kW generator.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision                           | Radiological |
|-----------|-----------|--------|-----------|------|-----|--|--------------|
| \$163,873 | D, A      | 800 kg | 13.2 tons | 5    | 9   | Thermal Imaging, Image Intensification | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor           |
|--------|---------|----------|-----------|--------|------|-----------------|
| 124/87 | 29/20/3 | 416      | 84        | Std    | T2   | HF6Sp HS4Sp HR4 |

| Fire Control | Stabilization | Armament  | Ammunition  |
|--------------|---------------|-----------|-------------|
| None         | None          | M-2HB (C) | 1000x.50BMG |

**Lynx -- Netherlands Version**

Notes: This is a standard Lynx with the addition of a turret with a 25mm Oerlikon autocannon. The gunner has a hatch in the rear face of the turret and the commander has a hatch on the turret roof. The turret traverse is slow, as it is manual.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| \$169,180 | D, A      | 500 kg | 9.88 tons | 3    | 4   | Passive IR   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 92/65  | 22/15/2 | 303      | 47        | CiH    | T3   | TF5 TS5 TR5 HF6 HS4 HR4 |

| Fire Control | Stabilization | Armament                     | Ammunition            |
|--------------|---------------|------------------------------|-----------------------|
| +2           | Fair          | 25mm KBA autocannon, MAG (C) | 400x25mm, 2000x7.62mm |

**AMX-10 PAC-90**

Notes: This is a fire support variant of the AMX-10P, used by Indonesia. There is a hatch on the left front deck for the driver, hatches on the turret for the commander and gunner, and a large drop ramp in the rear.

Notes: Small amounts of this vehicle were diverted from shipments to Indonesia when the Twilight War began, and used by France and Belgium.

| Price     | Fuel Type | Load      | Veh Wt     | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|-----------|------------|------|-----|--------------|--------------|
| \$178,906 | D, A      | 1.25 tons | 15.59 tons | 3+4  | 10  | Passive IR   | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 124/87 | 29/20/5 | 518      | 103       | Trtd   | T2   | TF3 TS3 TR3 HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament          | Ammunition           |
|--------------|---------------|-------------------|----------------------|
| +3           | Basic         | 90mmf gun, AAT-F1 | 40x90mm, 3200x7.62mm |

**AMX-13**

Notes: Production of the first examples of this vehicle began in 1952; since then, the AMX-13 has been steadily upgraded and improved to try to keep it useful, relevant, and attractive on the world market. Production stopped in 1985, but upgrades packages continued to be developed after that time, and over 7700 were manufactured. The base chassis is conventional, but the turret is unusual, being an oscillating turret, where the top and bottom half are hinged, and the top half rocks back and forth to provide elevation for the main gun and coaxial armament. In addition, the main gun is fed by an autoloader, and ammunition supplied by two revolving magazines at the rear of the turret, each holding 6 rounds. Empty shell cases are ejected automatically outside the turret after firing. This feature, while giving a good fire rate, also means that when the ammunition in those magazines is exhausted, they must be manually refilled, with the crew getting outside of the armor to do so. It also limits the amount of available ammunition. One way used to increase the firepower (and antiarmor range of earlier versions) was to mount ATGM launchers on either side of the turret; early versions with these launchers used SS-11 missiles, and later versions used HOT missiles. The driver's hatch is in the front center of the vehicle, with a commander's hatch on the turret deck.

| Vehicle             | Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision | Radiological |
|---------------------|-----------|-----------|--------|------------|------|-----|--------------|--------------|
| AMX-13 M-51         | \$128,205 | G, A      | 300 kg | 15 tons    | 3    | 6   | Headlights   | Enclosed     |
| AMX-13 M-51/SS-11   | \$169,933 | G, A      | 300 kg | 15.05 tons | 3    | 6   | Headlights   | Enclosed     |
| AMX-13 M-51/HOT     | \$253,389 | G, A      | 300 kg | 15.14 tons | 3    | 6   | Headlights   | Enclosed     |
| AMX-13/90 (Gas)     | \$148,320 | G, A      | 300 kg | 15 tons    | 3    | 6   | Active IR    | Enclosed     |
| AMX-13/90 (Diesel)  | \$148,720 | D, A      | 300 kg | 15 tons    | 3    | 6   | Active IR    | Enclosed     |
| AMX-13/105 (Gas)    | \$169,945 | G, A      | 300 kg | 15.5 tons  | 3    | 6   | Passive IR   | Enclosed     |
| AMX-13/105 (Diesel) | \$170,145 | D, A      | 300 kg | 15.5 tons  | 3    | 6   | Passive IR   | Enclosed     |
| AMX-13/FL-15        | \$180,560 | D, A      | 300 kg | 15.5 tons  | 3    | 6   | Passive IR   | Enclosed     |
| Argentine AMX-13    | \$148,320 | D, A      | 300 kg | 15 tons    | 3    | 6   | Passive IR   | Enclosed     |
| AMX-13 M-1987       | \$181,680 | D, A      | 300 kg | 15.9 tons  | 3    | 6   | Passive IR   | Enclosed     |

|                   |           |      |        |           |   |   |            |          |
|-------------------|-----------|------|--------|-----------|---|---|------------|----------|
| Ecuadorian AMX-13 | \$169.745 | G, A | 300 kg | 15.3 tons | 3 | 6 | Headlights | Enclosed |
|-------------------|-----------|------|--------|-----------|---|---|------------|----------|

| Vehicle             | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                    |
|---------------------|--------|---------|----------|-----------|--------|------|--------------------------|
| AMX-13 M-51         | 111/78 | 26/18   | 480      | 147       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13 M-51/SS-11   | 111/77 | 26/18   | 480      | 147       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13 M-51/HOT     | 110/77 | 26/18   | 480      | 147       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13/90 (Gas)     | 111/78 | 26/18   | 480      | 147       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13/90 (Diesel)  | 122/86 | 29/20   | 480      | 104       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13/105 (Gas)    | 104/73 | 24/17   | 480      | 135       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13/105 (Diesel) | 115/81 | 27/19   | 480      | 96        | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13/FL-15        | 118/83 | 28/19   | 480      | 96        | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| Argentine AMX-13    | 121/85 | 28/20   | 480      | 77        | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |
| AMX-13 M-1987       | 115/81 | 27/19   | 480      | 96        | Trtd   | T3   | TF8 TS4 TR3 HF10 HS3 HR2 |
| Ecuadorian AMX-13   | 105/73 | 24/17   | 480      | 169       | Trtd   | T3   | TF5 TS4 TR3 HF6 HS3 HR2  |

| Vehicle  | Fire Control | Stabilization | Armament                                      | Ammunition                                  |
|--|--------------|---------------|---|---|
| AMX-13 M-51                                    | +1           | Basic         | 75mm Gun, AAT-52 or AAT-F1                    | 37x75mm, 3600x7.5mm or 7.62mm               |
| AMX-13 M-51/SS-11                              | +1           | Basic         | 75mm Gun, 2xSS-11 Launchers, AAT-52 or AAT-F1 | 37x75mm, 2xSS-11 ATGM, 3600x7.5mm or 7.62mm |
| AMX-13 M-51/HOT                                | +1           | Basic         | 75mm Gun, 6xHOT Launchers, AAT-52 or AAT-F1   | 37x75mm, 6xHOT ATGM, 3600x7.5mm or 7.62mm   |
| AMX-13/90 (Both)                               | +2           | Fair          | 90mm French Gun, AAT-F1                       | 32x90mm, 3600x7.62mm                        |
| AMX-13/105 (Both)                              | +2           | Fair          | 105mm French Gun, AAT-F1                      | 32x105mm, 4000x7.62mm                       |
| AMX-13/FL-15, AMX-13 M-1987, Ecuadorian AMX-13 | +3           | Fair          | 105mm French Gun, AAT-F1, AAT-F1 (C)          | 32x105mm, 4000x7.62mm                       |
| Argentine AMX-13                               | +2           | Fair          | 90mm French Gun, AAT-F1                       | 32x90mm, 3600x7.62mm                        |

### AMX RATAc

Notes: This is a version of the AMX VCI armored personnel carrier, with a ground surveillance radar set mounted on the roof of the passenger compartment. Inside the compartment is a management computer, controls for the radar, radios, and a datalink set. The

radar has a range of 20 km against vehicles and structures and 15 km against personnel and explosions. The French army transferred their RATAAC radars to VAB vehicles in the mid 1970s, but the AMX RATAAC was still being used by Ecuador and Morocco by 2004.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|--------|---------|------|-----|-------------------|--------------|
| \$227,556 | D, A      | 750 kg | 16 tons | 4    | 10  | Radar, Passive IR | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 116/81 | 27/19   | 410      | 103       | CiH    | T3   | TF1 TS1 TR1 HF8 HS4 HR4 |

| Fire Control | Stabilization | Armament             | Ammunition           |
|--------------|---------------|----------------------|----------------------|
| None         | None          | AAT-F1 or AAT-52 (C) | 2000x7.62mm or 7.5mm |

### Hotchkiss Light Tracked Vehicles

Notes: These small tracked scout vehicles were in service with the West German Army until the mid-1980s. They were designed for the French Army to operate with AMX-13s, but the French Army passed on them and the West Germans picked them up. Some of them passed into reserve units, but most of them were scrapped or used as range targets.

The base vehicle is the SPz 11-2. This is a small boxy hull with a well-sloped front end that bears a slight resemblance to the US M-114 Lynx. The driver is on the front left, with an overhead hatch. It has a small turret with a 20mm Rh-202 autocannon. The turret is behind the driver, offset to the left, and has a hatch. There are three hatches on the roof, one to the right of the turret and two on the rear deck. There are two doors in the rear of the hull.

The SPz 22-2 is a command vehicle, and does not have a turret. It is fitted with three radios, and the right front hatch on the roof has a pintle mount for a machinegun. The commander has a periscope with magnification of x4 (wide field) or x15 (narrow field); this periscope may be removed and placed on a tripod sight that is provided with the vehicle.

The SPz 51-2 is a light mortar carrier. In this role, the roof is raised slightly, and an 81mm mortar is mounted in the rear with large overhead hatches in the roof for firing. The rear of the hull has one large door instead of two smaller ones.

The SPz 2-2 is an armored ambulance. The vehicle has basic medical supplies and two stretchers. Two more stretcher patients may be carried in racks on the roof.

Some of the mortar carrier versions were converted into ground surveillance radar carriers and designated Radarpanzer kurz 1s. This radar has a range of 20 km.

| Vehicle          | Price    | Fuel Type | Load   | Veh Wt   | Crew                                    | Mnt | Night Vision | Radiological |
|------------------|----------|-----------|--------|----------|---|-----|--------------|--------------|
| SPz 11-2         | \$19,377 | G, A      | 300 kg | 8.2 tons | 2+3                                     | 4   | Headlights   | Enclosed     |
| SPz 22-2         | \$14,925 | G, A      | 300 kg | 7.5 tons | 5                                       | 6   | Headlights   | Enclosed     |
| SPz 51-2         | \$63,488 | G, A      | 300 kg | 8.2 tons | 5                                       | 4   | Headlights   | Enclosed     |
| SPz 2-2          | \$5,568  | G, A      | 300 kg | 8 tons   | 2+3 sitting, or 1 stretcher + 1 sitting | 5   | Headlights   | Enclosed     |
| Radarpanzer kurz | \$25,712 | G, A      | 300 kg | 8.1      | 3                                       | 6   | Headlights   | Enclosed     |

|   |  |  |  |      |  |  |  |
|---|--|--|--|------|--|--|--|
| 1 |  |  |  | tons |  |  |  |
|---|--|--|--|------|--|--|--|

| Vehicle               | Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|-----------------------|---------|---------|----------|-----------|--------|------|-------------------------|
| SPz 11-2              | 153/107 | 36/25   | 330      | 96        | CiH    | T2   | TF2 TS2 TR2 HF4 HS2 HR2 |
| SPz 11-2              | 162/113 | 38/26   | 345      | 95        | Std    | T2   | HF4 HS2 HR2             |
| SPz 51-2              | 153/107 | 36/25   | 375      | 96        | Std    | T2   | HF4 HS2 HR2             |
| SPz 2-2               | 156/109 | 39/27   | 295      | 96        | Std    | T2   | HF4 HS2 HR2             |
| Radarpanser kurz<br>1 | 146/103 | 34/24   | 375      | 96        | CiH    | T2   | TF1 TS1 TR1 HF4 HS2 HR2 |

| Vehicle  | Fire Control | Stabilization | Armament    | Ammunition |
|----------|--------------|---------------|-------------|------------|
| SPz 11-2 | None         | None          | 20mm Rh-202 | 500x20mm   |
| SPz 22-2 | None         | None          | MG-3 (C)    | 500x7.62mm |
| SPz 51-2 | None         | None          | 81mm Mortar | 50x81mm    |

**ABRA**

Notes: This German vehicle is an M-113A1G (the German-made version of the M-113 APC) mounting a counterbattery radar. The radar may be raised up to 10 meters above the ground and has a range of 25 km. The vehicle is amphibious only when the radar is folded against the hull. The ABRA has a 5 kW generator on the roof for running the radar with the engine off, to conserve fuel.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|--------|-----------|------|-----|-------------------|--------------|
| \$242,380 | D, A      | 400 kg | 13.3 tons | 4    | 8   | Radar, Passive IR | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Type          | Config | Susp | Armor                   |
|--------|---------|----------|-----------|---------------|--------|------|-------------------------|
| 113/79 | 26/19/3 | 360      | 97        | Radar Vehicle | Trtd   | T2   | TF2 TS2 TR2 HF6 HS4 HR4 |

| Fire Control | Stabilization | Armament  | Ammunition |
|--------------|---------------|-----------|------------|
| None         | None          | M-2HB (C) | 1000x.50   |

**TH-301/TAM**

Notes: This is a light tank designed in the mid-1970s for the Argentine Army as a companion to the VCTP armored personnel carrier. Based on a lengthened Marder chassis, the TAM (Tanque Argentino Mediano, the Argentine name for the vehicle) is topped with a turret mounting a 105mm NATO gun. Budgetary difficulties cut short the sales to Argentina, but then some of the surplus was sold to Malaysia and Thailand after upgrading, and production was ramped up again. (These vehicles are known as TH-301s.) There is a driver's hatch on the front left of the deck; the turret is mounted in the rear of the vehicle with a commander and loader's hatches on the turret deck. In the rear of the hull is a door that is normally used for resupply, but can be used as a quick exit for the crew if the vehicle is taken out of action.

Twilight 2000 Notes: When the Twilight War intervened, production and the undelivered vehicles were shifted to domestic use.

| Vehicle | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision                      | Radiological |
|---------|-----------|-----------|--------|-----------|------|-----|-----------------------------------|--------------|
| TH-301  | \$289,188 | D, A      | 400 kg | 31.6 tons | 4    | 11  | Passive IR, Image Intensification | Shielded     |
| TAM     | \$238,161 | D, A      | 400 kg | 31.6 tons | 4    | 11  | Passive IR                        | Shielded     |

| Vehicle | Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|---------|---------|---------|----------|-----------|--------|------|---------------------------|
| TH-301  | 167/117 | 40/28   | 650+400  | 260       | Trtd   | T4   | TF26 TS8 TR8 HF32 HS6 HR6 |
| TAM     | 166/116 | 39/27   | 650+400  | 259       | Trtd   | T4   | TF26 TS8 TR8 HF32 HS6 HR6 |

| Vehicle | Fire Control | Stabilization | Armament                   | Ammunition                     |
|---------|--------------|---------------|----------------------------|--------------------------------|
| TH-301  | +4           | Good          | 105mm Gun, MG-3, MG-3 (C)  | 50x105mm, 3000x7.62mm          |
| TAM     | +3           | Fair          | 105mm Gun, MG-3, M-2HB (C) | 50x105mm, 1500x7.62mm, 900x.50 |

**Wiesel 1**

Notes: The Wiesel 1 is a light and inexpensive scout vehicle used by the German Army by the hundreds. They are easy to build, fast and maneuverable, and can be serviced using common automotive parts. The standard version uses a 20mm autocannon, but the design is very versatile and had spawned numerous variants, some of which are listed below. The autocannon carriers typically have a crew of two, with the driver in the front right of the hull and the commander in the turret. They may be easily carried in aircraft and heavy helicopters, dropped by parachute or LAPES, or sling loaded by helicopters as small as the Black Hawk.

Twilight 2000 Notes: Dozens of these vehicles were used by the US 82<sup>nd</sup> Airborne Division and 75<sup>th</sup> Ranger Regiment during the Twilight War.

| Vehicle          | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|------------------|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| Wiesel 1/20mm    | \$134,962 | G, A      | 300 kg | 2.8 tons  | 2    | 2   | Passive IR   | Enclosed     |
| Wiesel 1 BTM-208 | \$36,586  | G, A      | 300 kg | 2.86 tons | 2    | 2   | Passive IR   | Enclosed     |
| Wiesel 1/30mm    | \$198,914 | G, A      | 300 kg | 2.91 tons | 2    | 2   | Passive IR   | Shielded     |

| Vehicle          | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|------------------|--------|---------|----------|-----------|--------|------|-------------------------|
| Wiesel 1/20mm    | 111/78 | 26/18   | 80       | 31        | CiH    | T2   | TF3 TS3 TR3 HF4 HS2 HR2 |
| Wiesel 1 BTM-208 | 120/84 | 28/19   | 80       | 40        | CiH    | T2   | TF3 TS3 TR3 HF4 HS2 HR2 |
| Wiesel 1/30mm    | 86/60  | 20/14   | 80       | 48        | CiH    | T2   | TF3 TS3 TR3 HF4 HS2 HR2 |

| Vehicle          | Fire Control | Stabilization | Armament                     | Ammunition           |
|------------------|--------------|---------------|------------------------------|----------------------|
| Wiesel 1/20mm    | +2           | Fair          | 20mm Rh-202 Autocannon       | 400x20mm             |
| Wiesel 1 BTM-208 | +1           | Basic         | M-2HB, MG-3                  | 500x.50, 500x7.62mm  |
| Wiesel 1/30mm    | +2           | Fair          | 30mm RMK-30 Autocannon, MG-3 | 300x30mm, 200x7.62mm |





**ASCOD 105**

Notes: The ASCOD 105 is a joint venture between Santa Barbara of Spain and Steyr-Daimler-Puch of Austria. Great Britain, Greece, and South Africa have also expressed interest in this light tank. It has also received attention in Asia. The vehicle uses a modified Ascod IFV chassis and a turret from a Rooikat South African light combat vehicle, armed with a 105mm NATO cannon. The vehicle's joints are all welded, so that there are no rivets to pop loose and ricochet around if the vehicle is hit. The commander has a hatch on the turret roof, next to the loader. The gunner uses one of these hatches. The driver has a hatch on the front deck, and there is a rear hatch for quick escapes under fire. Night vision is provided for all crewmembers, as well as a sight for the commander and gunner equal to an image intensifier. Appliqué armor is available, adding 5 points of armor to the HF and TF and 3 points all other faces except the HR.

The ASCOD 105 GDLS is an ASCOD armored personnel carrier reworked into a light tank, like the ASCOD 105, but this time using a casemated 105mm gun, similar to that on the Marder 105. This offers more protection for the crew as well as increased gun laying and response time, as the casemated turret has a faster traverse time as well as a better fire control system. All crewmembers are carried in the front of the hull, with the driver and commander side by side and the gunner behind them on a slightly elevated seat. The hull may use the same appliqué armor as other ASCOD designs, but the turret appliqué armor may not be used.

| Vehicle        | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision                                       | Radiological |
|----------------|-----------|-----------|--------|-----------|------|-----|--|--------------|
| ASCOD 105      | \$313,014 | D, A      | 800 kg | 28.5 tons | 4    | 11  | Image Intensifier, Thermal Imaging                 | Shielded     |
| ASCOD 105 GDLS | \$356,327 | D, A      | 800 kg | 26 tons   | 3    | 10  | Thermal Imaging, Passive IR, Image Intensification | Shielded     |

| Vehicle        | Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|----------------|---------|---------|----------|-----------|--------|------|---------------------------|
| ASCOD 105      | 140/98  | 33/23   | 650      | 213       | Trtd   | T3   | TF14 TS6 TR6 HF18 HS5 HR4 |
| ASCOD 105 GDLS | 145/102 | 34/24   | 650      | 203       | CiH    | T3   | TF7 TS3 TR3 HF18 HS5 HR4  |

| Vehicle        | Fire Control | Stabilization | Armament                  | Ammunition            |
|----------------|--------------|---------------|---------------------------|-----------------------|
| ASCOD 105      | +3           | Good          | 105mm Gun, MG-3, MG-3 (C) | 40x105mm, 4600x7.62mm |
| ASCOD 105 GDLS | +4           | Good          | 105mm Gun, MG-3           | 40x105mm, 4600x7.62mm |

**M-41B/C**

Notes: This is a version of the M-41 used by Brazil, Denmark, Greece, Turkey, and Spain. This version has a less thirsty diesel engine, upgraded armor, and a 90mm gun with stabilization.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|--------|-----------|------|-----|-------------------|--------------|
| \$193,790 | D, A      | 700 kg | 23.8 tons | 4    | 10  | Active/Passive IR | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                       |
|--------|---------|----------|-----------|--------|------|-----------------------------|
| 118/83 | 28/19   | 530      | 118       | Trtd   | T4   | TF11 TS10 TR10 HF14 HS8 HR8 |

| Fire Control | Stabilization | Armament | Ammunition |
|--------------|---------------|----------|------------|
|              |               |          |            |

|    |       |                             |                               |
|----|-------|-----------------------------|-------------------------------|
| +1 | Basic | 90mm gun, M-60E2, M-2HB (C) | 45x90mm, 5000x7.62mm, 500x.50 |
|----|-------|-----------------------------|-------------------------------|

**Sherman Armored Ambulance (Ambutank)**

Notes: This is an M-4 Sherman tank with the turret removed and replaced with a raised superstructure. It is used for the evacuation and treatment of casualties under enemy fire. The Sherman in this role has extensive medical supplies, including the equivalent of 5 doctor's medical bags, a refrigerator with 5 units of plasma and whole blood, refills for individual medical kits for a platoon, an oxygen unit, and other such supplies. The engine is moved to the center of the vehicle, and the floor of the passenger compartment has a hatch so that the vehicle may drive over a victim lying on the ground and pick him up. There is a hatch on the front deck for the driver, hatches on the roof of the passenger compartment, and a large door on the rear of the hull.

| Price    | Fuel Type | Load   | Veh Wt  | Crew                  | Mnt | Night Vision | Radiological |
|----------|-----------|--------|---------|-----------------------|-----|--------------|--------------|
| \$67,386 | D, A      | 3 tons | 34 tons | 3+5 (or 2 stretchers) | 13  | Headlights   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor        |
|--------|---------|----------|-----------|--------|------|--------------|
| 97/68  | 23/16   | 700      | 170       | Std    | T5   | HF12 HS6 HR4 |

| Fire Control | Stabilization | Armament  | Ammunition |
|--------------|---------------|-----------|------------|
| None         | None          | M-2HB (C) | 600x.50    |

**HWK-13**

Notes: This vehicle, unique to the Mexican Army, was first deployed in the early 1990s. It is an HWK-11 armored personnel carrier chassis topped with a light turret mounting a 90mm French gun. The area where passengers were carried is largely filled with this turret and ammunition for the main gun and the machineguns. This vehicle is normally used for long-range reconnaissance in the Mexican Army, or sometimes for infantry support.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|---------|------|-----|--------------|--------------|
| \$160,433 | G, A      | 400 kg | 13 tons | 4+2  | 6   | Passive IR   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 112/79 | 26/18   | 300      | 126       | Trtd   | T4   | TF3 TS3 TR3 HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament                        | Ammunition                    |
|--------------|---------------|---------------------------------|-------------------------------|
| +2           | Fair          | 90mm French Gun, MAG, M-2HB (C) | 30x90mm, 3000x7.62mm, 500x.50 |

**M-1985**

Notes: This a North Korean light tank, based on the chassis of the YW-531 armored personnel carrier. The North Koreans felt they needed a light tank even smaller than the Type 63, for use in the rough and mountainous terrain so prevalent in North Korea, and with greater amphibious capability. To this end, they fitted a modified YW-531 chassis with a turret similar to the PT-76, a more powerful engine, and propellers to drive the vehicle in the water. The result is a light vehicle with greater speed than the PT-76 or YW-531, able to pursue vehicles and maneuver on rough terrain. This vehicle is used only by North Korea. The goal of a vehicle lighter than the PT-76 was not achieved, however, as the M-1985 is quite a bit heavier than the PT-76, being based on a stretched YW-531 chassis with extra armor.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|--------|---------|------|-----|-------------------|--------------|
| \$194,742 | D, A      | 500 kg | 20 tons | 4    | 9   | Active/Passive IR | Enclosed     |

| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|---------|---------|----------|-----------|--------|------|---------------------------|
| 150/105 | 25/25/7 | 450      | 162       | Trtd   | T4   | TF10 TS7 TR6 HF12 HS6 HR4 |

| Fire Control | Stabilization | Armament                               | Ammunition                                    |
|--------------|---------------|--|---|
| +2           | Fair          | 85mm gun, PKT, DShK (C), AT-3 Launcher | 47x85mm, 2200x7.62mm, 550x12.7mm, 4xAT-3 ATGM |

**NM-116**

Notes: The NM-116 is a modification of the WW2-vintage M-24 Chaffee light tank. The bow machinegun has been removed to allow for additional ammunition storage, a larger gun and a coaxial machinegun have been installed, a laser rangefinder has been added, and a diesel engine has replaced the gasoline engine. The layout is conventional. The NM-116 is built by Norway and used by that country and Taiwan.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| \$185,516 | D, A      | 670 kg | 18.4 tons | 4    | 8   | Headlights   | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|--------|---------|----------|-----------|--------|------|---------------------------|
| 96/67  | 23/16   | 416      | 92        | Trtd   | T3   | TF10 TS4 TR4 HF10 HS4 HR4 |

| Fire Control | Stabilization | Armament                             | Ammunition          |
|--------------|---------------|--------------------------------------|---------------------|
| +2           | Basic         | 90mm French Gun, M-2HB,<br>M-2HB (C) | 41x90mm, 500x.50BMG |

**BRM-23**

Notes: This Bulgarian scout vehicle is a modification of the standard BMP-23 IFV. The main differences are that the BRM-23 carries more ammunition, more surveillance equipment, and no passengers other than its 5-man crew. The night vision suite is improved, and the BRM-23 has a retractable ground-surveillance radar system and a laser designator, as well as a Geiger counter and chemical sniffer. Generally, no less than two long-range and two medium range radios are carried. This vehicle fulfills the same role that the M-3 Bradley fills in the US Army.

| Price     | Fuel Type | Load  | Veh Wt  | Crew | Mnt | Night Vision                                       | Radiological |
|-----------|-----------|-------|---------|------|-----|--|--------------|
| \$319,028 | D, A      | 1 ton | 16 tons | 5    | 12  | Passive IR, Image Intensification, Thermal Imaging | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 94/66  | 22/15/2 | 560      | 74        | Trtd   | T3   | TF5 TS3 TR3 HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament                            | Ammunition                     |
|--------------|---------------|-------------------------------------|--------------------------------|
| +2           | Fair          | 23mm autocannon, PKT, AT-5 launcher | 1000x23mm, 3000x7.62mm, 7xAT-5 |



**2S25**

Notes: The 2S25 is a light tank designed for use by the VDV (Airborne Forces) and Naval Infantry, although the Russians call it a self-propelled antitank gun. The driver has a hatch on the front deck, the commander and gunner have hatches on the turret deck. The 125mm gun is a low-pressure version of the standard Russian 125mm gun (which uses standard 125mm rounds) and has an autoloader. A pintle mount is supplied by the commander's hatch. The 2S25 is fully amphibious at one-quarter its cross-country speed. The 2S25 may be airdropped from the Il-76.

Twilight 2000 Notes: The 2S25 was present in small numbers for fighting in China, Norway, and Poland.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision    | Radiological |
|-----------|-----------|--------|---------|------|-----|-----------------|--------------|
| \$296,227 | D, A      | 500 kg | 18 tons | 3    | 9   | Thermal Imaging | Shielded     |

| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|---------|---------|----------|-----------|--------|------|-------------------------|
| 184/128 | 43/30/6 | 250      | 149       | Trtd   | T4   | TF6 TS5 TR5 HF8 HS4 HR3 |

| Fire Control | Stabilization | Armament                              | Ammunition                      |
|--------------|---------------|---------------------------------------|---------------------------------|
| +3           | Good          | 125mm low-pressure gun, PKT, NSVT (C) | 40x125mm, 2000x7.62L, 500x12.7B |

**Uralvagonzavod BMPT "Terminator"**

Notes: This is another one of those vehicles that is not easily placed into one category or another; based on a T-72 tank hull, it is not really a light combat vehicle; carrying no dismount troops, it is not a heavy APC; and not having a heavily-armed, heavily-armored turret, it is not a tank. The Russians call the BMPT a "Tank Support Vehicle;" its job is to tackle the infantry. They have lately also been marking the BMPT as the "Terminator." APCs and IFVs, and other light vehicles to free tanks to take on other tanks and fortifications. The BMPT was first demonstrated to the public in 2000. It is normally based on a T-72 chassis, but the modifications can also be made to a T-90 chassis to provide a vehicle with better armor protection and mobility. The hull is basically a modified tank hull which has the same level of armor protection as the base tank hull and a new engine; the turret, though fairly heavily-armored, is not anywhere as nearly protected as the hull. The modified turret has 2A42 or 2A72 30mm autocannon for use against lightly-armored or unarmored vehicles, two medium and one heavy machinegun for general antipersonnel or antiaircraft use, and an armored box launcher on the left side of the turret containing four launchers for AT-14 Kornet ATGM. On each side of the hull above the front track skirts is an AGS-30 grenade launcher for use against troops in the open. Each side of the turret has six 902-series "Tucha" smoke grenade launchers to provide obscuring smoke. The hull has lugs for ERA on the glacis and hull front and the side skirts, and the BMPT is equipped with an NPC overpressure system and radiation shielding. A 5 kW APU is located in an armored box on the right side of the vehicle. Each crewmember has their own hatch; the driver is in the center front, the commander/right AGS-30 behind the driver on the right, the left AGS-30 gunner behind the driver on the right, and the turret gunners with hatches on either side of the autocannon on the flat portion of the forward deck of the turret. Any crewmember except the driver may take control of all the weapons if necessary, or replace an injured or dead crewman without leaving his station. The BMPT can also function as a hunter/killer team, as the commander and gunner have independent sights and the commander's sight may move and rotate independently of the turret. Fence-type armor protects the vehicle from the rear, in addition to the normal armor; this functions as spaced armor, except that it stops only 1d6 damage instead of 2d6.

Future versions of the BMPT are planned, with different armament packages and possibly on different tank chassis.

Twilight 2000 Notes: This vehicle's existence was rumored as early as 1995, but examples were not seen until 1998, in Iran, China, and Poland. These versions were the T-72-based BMPTs; the T-90-based model was not built during the Twilight War.

| Vehicle           | Price     | Fuel Type    | Load     | Veh Wt  | Crew | Mnt | Night Vision   | Radiological |
|-------------------|-----------|--------------|----------|---------|------|-----|--|--------------|
| BMPT (T-72-Based) | \$406,866 | D, G, AvG, A | 1.7 tons | 47 tons | 5    | 15  | Passive IR (D, G, C), Image Intensification (G, C), Thermal Imaging (G, C) | Shielded     |
| BMPT (T-90-Based) |           | D, G, AvG, A | 1.3 tons | 55 tons | 5    | 17  | Passive IR (D, G, C), Image Intensification (G, C), Thermal Imaging (G, C) | Shielded     |

| Vehicle           | Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                                      |
|-------------------|---------|---------|----------|-----------|--------|------|--|
| BMPT (T-72-Based) | 150/107 | 30/20   | 1000     | 624       | Trtd   | T6   | TF40Sp TS12Sp TR12Sp HF130Cp HS20Sp HR10Sp |
| BMPT (T-90-Based) | 138/98  | 28/18   | 1000     | 624       | Trtd   | T6   | TF40Sp TS12Sp TR12Sp HF180Cp HS30Sp HR18Sp |

| Vehicle | Fire Control | Stabilization | Armament                      | Ammunition                    |
|---------|--------------|---------------|-------------------------------|-------------------------------|
| (Both)  | +4           | Good          | 30mm Autocannon, 2xPKT, NSVT, | 550x30mm, 1000x30mm Grenades, |

|                                    |   |
|------------------------------------|---|
| 4xAT-14 Launchers; 2xAGS-17 (Hull) | 7000x7.62mm, 2000x12.7mm, 8xAT-14;<br>600x30mm Grenades |
|------------------------------------|---|

**MT-LB R-81**

Notes: This is a command and staff version of the MT-LB armored personnel carrier. In this version, the MT-LB carries at least 3 radios, and has a 4-meter flexible antenna mounted on the roof, along with a 5 kW generator. Often mounted are land-navigation computers, battle control computers, and map boards. Two cable reels that hold a total of 1000 meters of communications wire are carried in the rear for field telephones. The machinegun cupola is retained.

| Price     | Fuel Type | Load  | Veh Wt  | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|-------|---------|------|-----|--------------|--------------|
| \$141,672 | D, A      | 1 ton | 12 tons | 6    | 7   | Active IR    | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor       |
|--------|---------|----------|-----------|--------|------|-------------|
| 102/71 | 24/17/2 | 450      | 49        | Std    | T3   | HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| None         | None          | PKT      | 2000x7.62mm |

**MT-LB SNAR-10**

Notes: This is an MT-LB armored personnel carrier with a dish and equipment for the SNAR-10 (Big Fred) ground surveillance/counterbattery radar system. The radar is on a turret at the rear of the vehicle and can be rotated 360 degrees. Maximum range for vehicle and structure detection is 16 km while for counterbattery work the range is 10 km. The vehicle has a radio dedicated to datalink duties with higher headquarters and usually has at least two other radios. Unlike the APC version of the MT-LB, the SNAR-10 is not amphibious, as the radar assembly unbalances the vehicle.

| Price    | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|----------|-----------|--------|-----------|------|-----|--------------|--------------|
| \$62,422 | D, A      | 750 kg | 12.6 tons | 5    | 8   | Radar        | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                   |
|--------|---------|----------|-----------|--------|------|-------------------------|
| 111/78 | 26/18   | 450      | 58        | Trtd   | T2   | TF2 TS2 TR2 HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| None         | None          | PKT      | 2000x7.62mm |

**MT-LBus R-55**

Notes: This is an ACRV (MT-LBus) fitted out for the advanced communications role. The MT-LBus in this role is fitted with at least 5 radios of varying ranges, radio telephone sets, teletype, teleprinter, and computer with wireless modem and LAN, along with various scrambling and encrypting modules. This vehicle is used to facilitate higher headquarters' communication with other headquarters and lower echelons, and one or more normally accompany a division command element. They are not normally armed, but some have a mount for a PK machinegun by the commander's hatch.

| Price    | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision | Radiological |
|----------|-----------|--------|---------|------|-----|--------------|--------------|
| \$52,057 | D, A      | 500 kg | 12 tons | 4    | 5   | Headlights   | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor       |
|--------|---------|----------|-----------|--------|------|-------------|
| 119/83 | 28/19/2 | 550      | 60        | Std    | T3   | HF4 HS2 HR2 |

**PT-76**

Notes: This light scout tank was developed shortly after World War 2, going into service in 1950. In most of the Warsaw Pact, various reconnaissance models of the BMP-1, BMP-2, and BMP-3 have long replaced it, but it is still quite common in other parts of the world, being used in countries ranging from Vietnam to Cuba. The PT-76 chassis also formed the basis of the BTR-50 series armored personnel carriers. The chassis is a boat-hulled design for full amphibious mobility, and topped by a turret mounting the same 76.2mm D-56T gun used in the T-34 tank of World War 2, though ammunition has been upgraded over the years. In addition, any one PT-76 is about 50% likely to have a mount on the turret roof for a DShK machinegun. Though the PT-76 has been steadily upgraded over the years, by 2000 it is a dated design.

| Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision      | Radiological |
|-----------|-----------|--------|-----------|------|-----|-------------------|--------------|
| \$144,796 | D, A      | 300 kg | 14.6 tons | 3    | 8   | Active/Passive IR | Enclosed     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|--------|---------|----------|-----------|--------|------|---------------------------|
| 109/76 | 27/18/3 | 250+180  | 70        | Trtd   | T3   | TF12 TS4 TR4 HF12 HS4 HR4 |

| Fire Control | Stabilization | Armament                        | Ammunition                         |
|--------------|---------------|---------------------------------|------------------------------------|
| +2           | Fair          | 76.2mm D-56T Gun, PKT, DShK (C) | 40x76.2mm, 1000x7.62mm, 600x12.7mm |

**RKhM**

Notes: This is the NBC reconnaissance the Russians and their Warsaw Pact allies use when the terrain is too rough for the BRDM-2 RKhb, or they require more interoperability with motorized or tank formations. It is based on the ACRV chassis, the same chassis as the SO-122 and SO-152. In this role, the turret is replaced with a raised superstructure topped with a light machinegun cupola (the same type as on the MT-LB). For this role, the RKhM is equipped with optical chemical sniffers, Geiger counters, a box over the rear deck that can be lowered over the back of the vehicle, containing marking pennants, at least one long-range and 3 medium range radios, an arm in the rear of the vehicle for taking soil samples, and a secured area for testing these samples, separated from the crew compartment by thick bulkheads and radiation shielding.

| Price     | Fuel Type | Load   | Veh Wt  | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|--------|---------|------|-----|--------------|--------------|
| \$113,822 | D, A      | 400 kg | 18 tons | 4    | 7   | Passive IR   | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor       |
|--------|---------|----------|-----------|--------|------|-------------|
| 81/57  | 19/13/2 | 550      | 55        | Std    | T4   | HF4 HS2 HR2 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| None         | None          | PKT      | 2000x7.62mm |

**K-200A1 Ambulance**

Notes: This is a standard K-200A1 (KIFV) with modifications to allow it to perform as an armored ambulance. Modifications include a refrigerator, respirator, defibrillator, a doctor's medical bag, and ample storage for medical supplies, including two complete splint sets. From the exterior, the K-200A1 Ambulance looks identical to the standard KIFV.

| Price    | Fuel Type | Load   | Veh Wt    | Crew                        | Mnt | Night Vision | Radiological |
|----------|-----------|--------|-----------|-----------------------------|-----|--------------|--------------|
| \$72,421 | D, A      | 700 kg | 12.1 tons | 3+7 sitting or 3 stretchers | 6   | Passive IR   | Shielded     |

| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                       |
|---------|---------|----------|-----------|--------|------|-----------------------------|
| 171/120 | 40/28/4 | 400      | 103       | Trtd   | T3   | TF2 TS2 TR2 HF8Sp HS5Sp HR4 |

| Fire Control | Stabilization | Armament        | Ammunition              |
|--------------|---------------|-----------------|-------------------------|
| +1           | Fair          | M-2HB, M-60 (C) | 1000x.50BMG, 1600x7.62N |

**K-216A1**

Notes: This is a KIFV with an NBC detection and analysis suite. The K-216A1 has an optical chemical sniffer, Geiger counter, chemical analysis gear, management computers, and an NBC overpressure system. Chemical protection suits, protective masks, and chemical countermeasures for the crew are carried as standard. The vehicle has a 5kW generator to operate the equipment with the engine turned off. As the hull design is changed, firing ports are eliminated.

| Price     | Fuel Type | Load  | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-----------|-----------|-------|-----------|------|-----|--------------|--------------|
| \$113,715 | D, A      | 1 ton | 11.8 tons | 4    | 10  | Passive IR   | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor           |
|--------|---------|----------|-----------|--------|------|-----------------|
| 139/97 | 32/23/3 | 400      | 85        | Std    | T3   | HF8Sp HS5Sp HR4 |

| Fire Control | Stabilization | Armament  | Ammunition  |
|--------------|---------------|-----------|-------------|
| None         | None          | M-2HB (C) | 1000x.50BMG |

**KAFV (Korean Armored Fighting Vehicle)**

Notes: This is a scout/fire support variant of the Korean Infantry Fighting Vehicle. The turret of the KIFV is replaced with one mounting a 90mm Cockerill cannon, and more internal space is given over to ammunition storage and communications equipment. Less space is given for passengers.

| Price     | Fuel Type | Load  | Veh Wt  | Crew | Mnt | Night Vision                | Radiological |
|-----------|-----------|-------|---------|------|-----|-----------------------------|--------------|
| \$262,644 | D, A      | 550kg | 15 tons | 4+3  | 6   | Passive IR, Thermal Imaging | Shielded     |

| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                           |
|---------|---------|----------|-----------|--------|------|---------------------------------|
| 144/101 | 34/24/4 | 400      | 102       | Trtd   | T3   | TF6Sp TS6Sp TR6 HF8Sp HS5Sp HR4 |

| Fire Control | Stabilization | Armament | Ammunition |
|--------------|---------------|----------|------------|
|              |               |          |            |

| Fire Control | Stabilization | Armament                      | Ammunition                   |
|--------------|---------------|-------------------------------|------------------------------|
| +2           | Good          | 90mm Cockerill, MAG, M2HB (C) | 44x90mm, 950x7.62mm, 600x.50 |

**CV-90 FCV (Forward Command Vehicle)**

Notes: This is a command post and battle control version of the CV-9040 IFV. It is known to the Swedish as the Stripbv. It has 4 radios (and sometimes more), a GPS system, a computer system, map boards, and plotting equipment. The turret is smaller and is armed only with a machinegun.

| Price     | Fuel Type | Load      | Veh Wt     | Crew | Mnt | Night Vision                                       | Radiological |
|-----------|-----------|-----------|------------|------|-----|--|--------------|
| \$246,005 | D, A      | 1.25 tons | 22.55 tons | 3+6  | 11  | Passive IR, Thermal Imaging, Image Intensification | Shielded     |

| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|---------|---------|----------|-----------|--------|------|---------------------------|
| 146/102 | 34/24   | 525      | 177       | Trtd   | T4   | TF14 TS8 TR6 HF18 HS7 HR4 |

| Fire Control | Stabilization | Armament | Ammunition  |
|--------------|---------------|----------|-------------|
| +3           | Good          | MAG      | 3800x7.62mm |

**M-3 Stuart**

Notes: The M-3 was a design evolved from the earlier M-2 light tank in the 1930s. They were used by the Allies; after World War 2, many of them were bought by Latin American and other countries, which still use them to this day. About 500 of these vehicles were built with diesel instead of gasoline engines. The M-3 is generally inadequate for modern antitank use, and most of them are used as infantry support vehicles.

The M-3A1 is an improved M-3. About 200 of them were built with a diesel engine. Differences include a new turret and removal of the driver's machineguns for more ammunition space for the main gun. Extra fuel tanks may be added to improve the range.

The M-3A3 is a further improved M-3. It has a new turret, and the hull is stretched to allow for more ammunition carriage, more internal fuel, and better suspension. These vehicles were not built with diesel engines.

The M-5 has twin gasoline automotive engines instead of the modified aircraft radial of the M-3. It also has improved frontal turret armor. The M-5A1 has an improved ammunition storage layout.

| Vehicle           | Price     | Fuel Type | Load   | Veh Wt    | Crew | Mnt | Night Vision | Radiological |
|-------------------|-----------|-----------|--------|-----------|------|-----|--------------|--------------|
| M-3 (Early)       | \$145,320 | G, A      | 200 kg | 12.8 tons | 4    | 6   | Headlights   | Enclosed     |
| M-3 (Mid)         | \$145,320 | G, A      | 200 kg | 12.7 tons | 4    | 6   | Headlights   | Enclosed     |
| M-3 (Mid, Diesel) | \$145,280 | D, A      | 200 kg | 12.7 tons | 4    | 6   | Headlights   | Enclosed     |
| M-3A1 (Gas)       | \$136,244 | G, A      | 200 kg | 12.9 tons | 4    | 6   | Headlights   | Enclosed     |
| M-3A1 (Diesel)    | \$136,204 | D, A      | 200 kg | 12.9 tons | 4    | 6   | Headlights   | Enclosed     |
| M-3A3             | \$181,943 | G, A      | 200 kg | 14.7 tons | 4    | 6   | Headlights   | Enclosed     |
| M-5               | \$145,704 | G, A      | 200 kg | 15 tons   | 4    | 6   | Headlights   | Enclosed     |
| M-5A1             | \$162,578 | G, A      | 200 kg | 15.2 tons | 4    | 6   | Headlights   | Enclosed     |

| Vehicle           | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                    |
|-------------------|--------|---------|----------|-----------|--------|------|--------------------------|
| M-3 (Early)       | 129/90 | 30/21   | 204      | 154       | Trtd   | T2   | TF6 TS5 TR5 HF8 HS4 HR4  |
| M-3 (Mid)         | 130/91 | 30/21   | 204      | 154       | Trtd   | T2   | TF6 TS5 TR5 HF8 HS4 HR4  |
| M-3 (Mid, Diesel) | 123/86 | 29/20   | 204      | 72        | Trtd   | T2   | TF6 TS5 TR5 HF8 HS4 HR4  |
| M-3A1 (Gas)       | 128/90 | 30/21   | 224+170  | 154       | Trtd   | T2   | TF6 TS5 TR5 HF10 HS4 HR4 |
| M-3A1 (Diesel)    | 121/85 | 28/20   | 224+170  | 72        | Trtd   | T2   | TF6 TS5 TR5 HF10 HS4 HR4 |
| M-3A3             | 114/80 | 27/29   | 416      | 154       | Trtd   | T2   | TF6 TS5 TR5 HF10 HS4 HR4 |
| M-5               | 125/88 | 29/21   | 340      | 175       | Trtd   | T2   | TF8 TS5 TR5 HF10 HS4 HR4 |
| M-5A1             | 124/87 | 29/20   | 340      | 175       | Trtd   | T2   | TF8 TS5 TR5 HF10 HS4 HR4 |

| Vehicle         | Fire Control | Stabilization | Armament  | Ammunition            |
|-----------------|--------------|---------------|---|-----------------------|
| M-3 (Early)     | None         | Basic         | 37mm M-5 gun, M-1919A4, 2xM-1919A4 (hull), M-1919A4 (D), M-1919A4 (C) | 103x37mm, 8270x.30-06 |
| M-3 (Mid, Both) | None         | Basic         | 37mm M-6 gun, M-1919A4, 2xM-1919A4 (hull), M-1919A4 (D), M-1919A4 (C) | 103x37mm, 8270x.30-06 |
| M-3A1 (Both)    | None         | Basic         | 37mm M-6 Gun, M1919A4, M-1919A4(D), M-1919A4 (C)                      | 106x37mm, 7220x.30-06 |
| M-3A3           | None         | Basic         | 37mm M-6 Gun, M1919A4, M-1919A4(D), M-1919A4 (C)                      | 174x37mm, 7500x.30-06 |
| M-5             | +1           | Basic         | 37mm M-6 Gun, M1919A4, M-1919A4(D), M-1919A4 (C)                      | 123x37mm, 6250x.30-06 |
| M-5A1           | +1           | Basic         | 37mm M-6 Gun, M1919A4, M-1919A4(D), M-1919A4 (C)                      | 147x37mm, 6750x.30-06 |

**M-3 Bradley CFV**

Notes: This is the same vehicle as the M-2 Bradley IFV, but used by scouts (CFV stands for Cavalry Fighting Vehicle). The main difference is that in the CFV, racks for extra ammunition and supplies take some of the space used by troop seats in the IFV version up. In addition, the firing ports are closed off, and the M-231 firing port weapons are not carried.

The M-3A2 is the same thing to the M-2A2 Bradley II IFV that the M-3 is to the M-2; i.e., a Cavalry Fighting Vehicle variant of the Bradley II IFV.

The M-3A2 with the Stingray System is a standard Bradley CFV fitted with an advanced optics jamming system. When in use, the operators of all vehicles and electro-optical systems (including thermal imaging and other night vision devices), image intensifiers, laser designators, laser rangefinders, and coincidence rangefinders must make a formidable: Electronics roll in order to use their systems of that type. The Stingray system does not have any effect on purely optical sights such as binoculars and telescopic sights. This device is turret mounted and aimed in the same manner of a weapon, but operates on all electro-optical systems within a 90-degree arc of the facing of the turret. Jamming range is 5 km. These vehicles were first deployed, but not

used, during the 1991 Persian Gulf War.

Twilight 2000 Notes: The M-3A3 Bradley III is a Cavalry Fighting Vehicle variant of the M-2A3 is a design along the same vein as the M-3 and M-3A2. It is an incredibly rare vehicle, with perhaps 25 of them ever built or converted.

| Vehicle        | Price     | Fuel Type | Load      | Veh Wt     | Crew | Mnt | Night Vision                | Radiological |
|----------------|-----------|-----------|-----------|------------|------|-----|-----------------------------|--------------|
| M-3            | \$324,853 | D, A      | 1.5 tons  | 26.16 tons | 3+3  | 10  | Passive IR, Thermal Imaging | Shielded     |
| M-3A2          | \$333,926 | D, A      | 1.34 tons | 32.81 tons | 3+3  | 12  | Passive IR, Thermal Imaging | Shielded     |
| M-3A2/Stingray | \$369,535 | D, A      | 1.3 tons  | 33.3 tons  | 3+3  | 14  | Passive IR, Thermal Imaging | Shielded     |
| M-3A3 (25mm)   | \$380,926 | D, A      | 1.34 tons | 36.09 tons | 3+3  | 12  | Passive IR, Thermal Imaging | Shielded     |
| M-3A3 (30mm)   | \$409,825 | D, A      | 1.34 tons | 35.61 tons | 3+3  | 12  | Passive IR, Thermal Imaging | Shielded     |
| M-3A3 (35mm)   | \$438,724 | D, A      | 1.34 tons | 35.67 tons | 3+3  | 12  | Passive IR, Thermal Imaging | Shielded     |

| Vehicle        | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                            |
|----------------|--------|---------|----------|-----------|--------|------|----------------------------------|
| M-3            | 130/91 | 30/21/3 | 662      | 152       | Trtd   | T4   | TF6 TS6Sp TR4 HF8 HS4Sp HR4      |
| M-3A2          | 128/89 | 30/21/3 | 662      | 185       | Trtd   | T4   | TF11Sp TS11Sp TR6 HF13 HS8Sp HR6 |
| M-3A2/Stingray | 124/87 | 29/20/3 | 662      | 190       | Trtd   | T4   | TF11Sp TS11Sp TR6 HF13 HS8Sp HR6 |
| M-3A3 (All)    | 116/81 | 27/19/3 | 662      | 175       | Trtd   | T4   | TF11Sp TS11Sp TR6 HF13 HS8Sp HR6 |

| Vehicle      | Fire Control | Stabilization | Armament                                       | Ammunition                              |
|--------------|--------------|---------------|--|---|
| M-3          | +2           | Good          | 25mm ChainGun, MAG, 2xTOW II Launchers,        | 1200x25mm, 1800x7.62mm, 10xTOW II ATGM  |
| M-3A2 (Both) | +3           | Good          | 25mm ChainGun, MAG, 2xTOW II Launchers         | 1200x25mm, 2900x7.62mm, 10xTOW II ATGM  |
| M-3A3 (25mm) | +4           | Good          | 25mm ChainGun, MAG, 2xHellfire Launchers       | 1200x25mm, 2900x7.62mm, 7xHellfire ATGM |
| M-3A3 (30mm) | +4           | Good          | 30mm Bushmaster II, MAG, 2xHellfire Launchers  | 900x30mm, 2900x7.62mm, 7xHellfire ATGM  |
| M-3A3 (35mm) | +4           | Good          | 35mm Bushmaster III, MAG, 2xHellfire Launchers | 750x35mm, 2900x7.62mm, 7xHellfire ATGM  |

**M-10A2 Abrams Battle Command Vehicle (BCV)**

Notes: This is an M-1A2SEP Abrams tank extensively modified for use by battlefield commanders. In this role, the main gun, coaxial machinegun, and ammunition are removed to make room for extensive battle management electronics. A dummy cannon barrel and machinegun barrel are fitted in their place, and the only difference externally between the BCV and a genuine tank are the large amount of antennas the BCV sports. Inside, the turret and hull carry extensive vision gear, including 2<sup>nd</sup> thermal Imaging and image intensification. The vehicle has a complete suite of three networked Pentium III-class computers built to tougher military specifications to take the vibrations of travel; these computers have a wireless LAN and battle management and land navigation software, including complete maps of the world (by 2000, these are based on 1997 satellite photos. The system has a large LCD touch-screen for input, with a trackball and keyboard as backups. The BCV has a set of at least five radios, from tactical radios to long-range, and for communicating with aircraft and directly with computers on aircraft such as JSTARS. A laser designator is provided, along with software to produce firing solutions for any sort of fire support from mortars to heavy bombers. A secondary function of these vehicles is signal intelligence, with a crew position and computer for an intelligence officer who has a secondary role of intercepting and analyzing enemy broadcasts.

Twilight 2000 Notes: These vehicles, due to their rarity, were initially issued only to US Division and Brigade commanders or Armored and Mechanized Infantry Divisions, and rarely found their way to lower headquarters. They were never encountered in Reserve or National Guard divisions, with the notable exception of the 49<sup>th</sup> Armored Division's commanding general's vehicle (TX ARNG).

| Price     | Fuel Type    | Load   | Veh Wt    | Crew | Mnt | Night Vision  | Radiological |
|-----------|--------------|--------|-----------|------|-----|---|--------------|
| \$627,976 | D, G, AvG, A | 900 kg | 61.5 tons | 5    | 19  | 2 <sup>nd</sup> Generation Thermal Imaging, Image Intensification, Passive IR | Shielded     |



| Tr Mov  | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor   |        |      |         |        |      |
|---------|---------|----------|-----------|--------|------|---------|--------|------|---------|--------|------|
| 148/104 | 34/24   | 1907     | 516       | Trtd   | T6   | TF161Cp | TS36Sp | TR30 | HF201Cp | HS26Sp | HR19 |

| Fire Control | Stabilization | Armament                          | Ammunition            |
|--------------|---------------|-----------------------------------|-----------------------|
| None         | None          | M-2HB (C), MAG (2 <sup>nd</sup> ) | 2000x.50, 5000x7.62mm |

**M-24 Chaffee**

Notes: This is an American-built, WWII-era, light AFV, now out of service in the US Army but still serving in many smaller armies. The M-24 is of conventional layout. The Chaffee was meant to replace the M-3/M-5 Stuart series of light tanks. The vehicle is not NBC-sealed. Taiwanese Chaffees have their 75mm guns replaced by French 90mm guns, their M-1919A4s replaced by MAG machineguns, and plug-ins for the crewmembers' protective masks. Some of these vehicles have had their bow machineguns replaced by flamethrowers.

| Vehicle             | Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision | Radiological |
|---------------------|-----------|-----------|--------|------------|------|-----|--------------|--------------|
| M-24                | \$158,732 | G, A      | 400 kg | 18.37 tons | 5    | 8   | Headlights   | Enclosed     |
| M-24 (Taiwanese)    | \$177,257 | G, A      | 400 kg | 18.75 tons | 5    | 8   | Headlights   | Enclosed     |
| M-24 (Flamethrower) | \$186,507 | G, A      | 400 kg | 18.9 tons  | 5    | 10  | Headlights   | Enclosed     |

| Vehicle                       | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor |     |     |      |     |     |
|-------------------------------|--------|---------|----------|-----------|--------|------|-------|-----|-----|------|-----|-----|
| M-24                          | 82/57  | 19/13   | 416      | 129       | Trtd   | T3   | TF8   | TS5 | TR5 | HF10 | HS4 | HR4 |
| M-24 (Taiwanese/Flamethrower) | 86/60  | 20/14   | 416      | 129       | Trtd   | T3   | TF8   | TS5 | TR5 | HF10 | HS4 | HR4 |

| Vehicle             | Fire Control | Stabilization | Armament   | Ammunition  |
|---------------------|--------------|---------------|--|---|
| M-24                | +1           | Basic         | 75mm gun, M-1919A4, M-1919A4 (bow), M-2HB (C)                | 48x75mm, 3750x.30-06, 440x.50                       |
| M-24 (Taiwanese)    | +2           | Basic         | 90mm French Gun, MAG, MAG (Bow), M-2HB (C)                   | 44x90mm. 3750x7.62mm, 440x.50                       |
| M-24 (Flamethrower) | +2           | Basic         | 90mm French Gun, MAG, Type 67M Flamethrower (Bow), M-2HB (C) | 44x90mm, 2500x7.62mm, 20xFlamethrower Fuel, 440x.50 |

**M-41 Walker Bulldog and Variants**

Notes: This is a US-built light tank of 1950s vintage. By 2000, the remaining Bulldogs were in Third-World use or reserve status. Most were heavily modified with external stowage, range finders, or lugs for reactive armor. The M-41 is the basic version, being a standard sort of light tank. The M-41A1 has rearranged ammunition storage. The M-41A2 has an improved engine. The M-41A3 adds one of the first night vision systems fitted to an armored vehicle.

The M-41B is a Brazilian modification of the Bulldog; it has had its main gun replaced with a 90mm Cockerill design and a new diesel engine. The M-41C is the same vehicle, but has an improved fire control system.

| Vehicle | Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision              | Radiological |
|---------|-----------|-----------|--------|------------|------|-----|---------------------------|--------------|
| M-41    | \$181,824 | G, A      | 700 kg | 23.5 tons  | 4    | 10  | Headlights                | Enclosed     |
| M-41A1  | \$192,429 | G, A      | 700 kg | 23.7 tons  | 4    | 10  | Headlights                | Enclosed     |
| M-41A2  | \$192,429 | G, A      | 700 kg | 23.7 tons  | 4    | 10  | Headlights                | Enclosed     |
| M-41A3  | \$224,429 | G, A      | 700 kg | 23.75 tons | 4    | 10  | Active IR, IR Searchlight | Enclosed     |
| M-41B   | \$214,832 | D, A      | 700 kg | 24 tons    | 4    | 10  | Passive IR                | Enclosed     |
| M-41C   | \$224,832 | D, A      | 700 kg | 24 tons    | 4    | 10  | Passive IR                | Enclosed     |

| Vehicle   | Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor |     |     |      |     |     |
|-----------|--------|---------|----------|-----------|--------|------|-------|-----|-----|------|-----|-----|
| M-41      | 137/96 | 32/22   | 530      | 297       | Trtd   | T4   | TF12  | TS8 | TR6 | HF12 | HS6 | HR6 |
| M-41A1    | 136/95 | 32/22   | 530      | 297       | Trtd   | T4   | TF12  | TS8 | TR6 | HF12 | HS6 | HR6 |
| M-41A2/A3 | 139/97 | 32/23   | 530      | 296       | Trtd   | T4   | TF12  | TS8 | TR6 | HF12 | HS6 | HR6 |
| M-41B/C   | 117/82 | 27/19   | 530      | 118       | Trtd   | T4   | TF12  | TS8 | TR6 | HF12 | HS6 | HR6 |

| Vehicle | Fire Control | Stabilization | Armament | Ammunition |
|---------|--------------|---------------|----------|------------|
|         |              |               |          |            |

|           |    |       |                                    |                                |
|-----------|----|-------|------------------------------------|--------------------------------|
| M-41      | +1 | Basic | 76mm gun, M-1919A4, M-2HB (C)      | 57x76mm, 5000x.30-06, 2175x.50 |
| M-41A1/A2 | +1 | Basic | 76mm gun, M-1919A4, M-2HB (C)      | 65x76mm, 5000x.30-06, 2175x.50 |
| M-41A3    | +2 | Basic | 76mm gun, M-1919A4, M-2HB (C)      | 65x76mm, 5000x.30-06, 2175x.50 |
| M-41B     | +2 | Basic | 90mm Cockerill Gun, MAG, M-2HB (C) | 55x90mm, 5000x7.62mm, 2175x.50 |
| M-41C     | +2 | Fair  | 90mm Cockerill Gun, MAG, M-2HB (C) | 55x90mm, 5000x7.62mm, 2175x.50 |

**M-551 Sheridan**

Notes: This light tank was originally designed for scouting duties and to provide light firepower for airborne divisions in the US. They had a long career with the US Army, replacing the earlier M-41 Walker Bulldog, but by the late 1980s they had been replaced in US service by the LAV-75 and M-8 Buford light tanks in airborne service, and heavier tanks and Bradley CFVs in other units. The 152mm gun is a large weapon for such a light vehicle, and the recoil is very violent. In addition, some of the bugs in the fire control system were never worked out. Whenever a conventional round (but not a Shillelagh missile) is fired from the main gun, roll 1D10; on a 1-2, minor damage is inflicted on the rangefinder.

Twilight 2000 Notes: The only users of the M-551 at the time of the Twilight War were the OPFOR units stationed at Fort Irwin in southern California and Fort Polk in Louisiana. These were largely restored to functional status at the time of the Mexican invasion, often still with the modifications used to make them look like enemy vehicles, and in this way were able to make many surprise attacks and accomplish infiltrations at night for reconnaissance.

| Price     | Fuel Type | Load   | Veh Wt     | Crew | Mnt | Night Vision               | Radiological |
|-----------|-----------|--------|------------|------|-----|----------------------------|--------------|
| \$223,463 | D, A      | 560 kg | 15.83 tons | 4    | 7   | Passive IR, WL Searchlight | Shielded     |

| Tr Mov | Com Mov | Fuel Cap | Fuel Cons | Config | Susp | Armor                     |
|--------|---------|----------|-----------|--------|------|---------------------------|
| 127/89 | 30/21/3 | 598      | 111       | Trtd   | T4   | TF13 TS4 TR4 HF16 HS3 HR3 |

| Fire Control | Stabilization | Armament                                   | Ammunition                                     |
|--------------|---------------|--|--|
| +2           | Fair          | 152mm Gun/Missile Launcher, MAG, M-2HB (C) | 20x152mm, 10xShillelagh, 3080x7.62mm, 1000x.50 |