

## CZECHOSLOVAKIA



**Flag:** two equal horizontal bands of white (top) and red with a blue isosceles triangle based on the hoist side.

**History (as of 1990):** Long-form name: Czechoslovak Socialist Republic; abbreviated CSSR; note--on 23 March 1990 the name was changed to Czechoslovak Federative Republic; because of Slovak concerns about their status in the Federation, the Federal Assembly approved the name Czech and Slovak Federative Republic on 20 April 1990. Type: in transition from Communist state to republic. Capital: Prague. Administrative divisions: 2 socialist republics (socialisticke republiky, singular--socialisticka republika); Ceska Socialisticka Republika, Slovenska Socialisticka Republika. Independence: 18 October 1918 (from Austro-Hungarian Empire). Political parties and leaders: Civic Forum, since December 1989 leading political force, loose coalition of former oppositionists headed by President Vaclav Havel; Communist Party of Czechoslovakia (KSC), Ladislav Adamec, chairman (since 20 December 1989); KSC toppled from power in November 1989 by massive antiregime demonstrations, minority role in coalition government since 10 December 1989. Currency: koruna (plural--koruny); 1 koruna (Kc) = 100 haleru.

**Geography (as of 1990):** Total area: 127,870 km. Comparative area: slightly larger than New York State. Land boundaries: 3,446 km total; Austria 548 km, German Democratic Republic 459 km, Hungary 676 km, Poland 1,309 km, USSR 98 km, FRG 356 km. Climate: temperate; cool summers; cold, cloudy, humid winters. Terrain: mixture of hills and mountains separated by plains and basins. Natural resources: coal, timber, lignite, uranium, magnesite, iron ore, copper, zinc. Environment: infrequent earthquakes; acid rain; water pollution; air pollution. Note: landlocked; strategically located astride some of oldest and most significant land routes in Europe; Moravian Gate is a traditional military corridor between the North European Plain and the Danube in central Europe.

**Military Notes:** Armed Forces: Czechoslovak People's Army, Frontier Guard, Air and Air Defense Forces. Defense expenditures: 28.4 billion koruny, 7% of total budget (1989).

1916 Car, Armd, 4x2. Praga G4

1919 Car, Armd, 4x2. Lancia IZ. One Lancia was available to the new Czechoslovak Army in 1919 from captured Italian stocks. (see Italy for vehicle details).

1920 Car, Armd, 4x2. Fiat-Turino. Chassis bought in Italy, armored by local foundry.

1920 Car, Armd, 4x2. Skoda-Fiat 18BL (CZ)

1921 Car, Armd, 4x2. Skoda-Praga L-7 (CZ)

1921 Car, Armd, 4x4, Skoda PA-1. 19'7"x6'10"x8'2".

**1924 Car, Armd, 4x4, Skoda OA vz 25 PA-2 (aka) Turtle.**



**Remarks:** Barquette style hull, no turret. Several cars were sold to Austria in 1932 and others were used by German units during WWII. 20'2"x7'2"x9'4".

**1925 Car, Armd, 4x2. Skoda-Praga "L".**



1993 Carr, Anti-Aircraft, Tatra STROP 30mm (8x8)

1993 Carr, Pers, Armd, 6x6. Tatra T-815 Tatrapan.

1925 Veh, Recce, KH-50 Convertible Tank (4x4)

1926 Car, Armd, 4x4, Skoda OA vz 27 PA-3. 20'4"x7'2"x9'4".

1927 Car, Armd, 4x4, Skoda PA-4.

1929 Car, Armd, 6x4, Tatra TPA Mod 1929.

1930 Car, Armd, 6x4, Tatra Type 72 OA vz 30.

1932 Carr, Wpns, Tractor, Artillery, Armd, Tatra

1934 Car, Armd, 6x4, Tatra VzOR 34.

1935 Car, Armd, 4x2. Skoda Popular chassis

1937 Veh, Recce, 4x4, Zbrojovka ZVO.

1958 Carr, Pers, Armd, 6x6. Praga V3S.

1959 Carr, Anti-Aircraft, 6x6. Tatra M53/59 30mm. Some M59s were supplied to Yugoslavia.

1960 Car, Armd, 4x4, Tatra 805.

1964 Carr, Pers, Armd, 8x8. OT-64/SKOT.

1965 Veh, Recce, 4x4, OT-65/FUG.

1965 Veh, Recce, 4x4, OT-65A.

1969 Carr, Wpns, Tatra RM-70 (M1972) 122mm MRL (8x8)

1980 Carr, Wpns, Tatra Dana 152mm G/H (8x8)

1985 Carr, Wpns, Tatra RM 70/85 122mm MRL (8x8)

1992 Carr, Wpns, Tatra Zuzana 155mm H (8x8)



## CZECH REPUBLIC



**Background:** In 1968, an invasion by Warsaw Pact troops ended the efforts of the country's leaders to liberalize Communist party rule. Anti-Soviet demonstrations the following year ushered in a period of harsh repression. With the collapse of Soviet authority in 1989, Czechoslovakia regained its freedom through a peaceful "Velvet Revolution." On 1 January 1993, the country underwent a "velvet divorce" into its two national components, the Czech Republic and Slovakia. The Czech Republic joined NATO in 1999 and the EU in 2004.

**Geography:** Location: Central Europe, southeast of Germany. Area: total: 78,866 sq. km. Area - comparative: slightly smaller than South Carolina. Land boundaries: total: 1,881 km. Border countries: Austria 362 km, Germany 646 km, Poland 658 km, Slovakia 215 km. Coastline: 0 km (landlocked). Climate: temperate; cool summers; cold, cloudy, humid winters. Terrain: Bohemia in the west consists of rolling plains, hills, and plateaus surrounded by low mountains; Moravia in the east consists

of very hilly country. Natural resources: hard coal, soft coal, kaolin, clay, graphite, timber. Natural hazards: flooding. Environment - current issues: air and water, acid rain damaging forests; efforts to bring industry up to EU code should improve domestic pollution. Geography - note: landlocked; strategically located astride some of oldest and most significant land routes in Europe; Moravian Gate is a traditional military corridor between the North European Plain and the Danube in central Europe.

**Military Notes:** Czech military has been rapidly upgrading its equipment and communications capability.

### 1993 Carr, Pers, Armd, 6x6. Tatravan T1/Z1.



**Remarks:** Based on the Tatra T-815 6x6 truck chassis, the Tatravan was developed by the Czech Army Military Technical Institute to provide a relatively low-cost, modular carrier

that could be readily adapted (or even changed in the field) to meet current requirements. The vehicle is designed to provide armored protection, and multi-purpose use. The basic APC variant serves as transportation for twelve personnel (in emergency - fourteen) equipped with small arms and personal equipment. For defense, the Tatravan is provided with both 7.62 mm and 12.7 mm machine guns. The 7.62-mm over the driver's compartment and the 12.7-mm over the rear crew compartment. Besides three hatches in the roof the rear compartment is also fitted with a large door at the rear of the vehicle and two smaller doors (one on each side between the second and third set of wheels). The purpose-built rear section can work independently of the chassis due to a separate electrical power unit.

**Vehicle Data:** Weight empty, 39,911 lbs (18100 kg). Loaded, 46,966 lbs (21300 kg). Length, 333

in (8460 mm). Width, 98 in (2500 mm). Height (wo/wpns), 116 in (2940 mm). Ground Clearance, 16 in (400 mm). Wheel Base, 158.5 in (4025 mm). Wheel Tread, 80.5 (2044 mm). Drive, 6x6. Armor, B6 against 7.62mm AP @ 100m. NBC Protection, central air-filtration. *Armament:* (1) 7.62 mm PKT (front) and (1) 12.7mm NSV machine gun (rear). Elev & traverse, manual. Fire Control, optical. Aux wpns, crew sidearms. *Capacity:* Fuel, 119 gals (450 Liters) diesel (or other multi-fuel capable). Crew/Passengers, 2/10. *Engine:* (1) Tatra 12-cylinder, air-cooled supercharged, multi-fuel engine (T3-930-51), developing 358 hp (265 kW) @ 2200 rpm. Location, front. *Transmission:* Tatra, manual with 10 speeds forward and 2-reverse. *Suspension System:* Leaf front, air-coils rear. Wheels Steerable, front two axles. Turning Radius, 75.5 ft (23 m). No of wheels, 6 w/central tire pressure system. Tire Size, 15.00x21. *General Data:* Elec Voltage, 24 V. Radio, (1) Czech produced, FM R-173. *Night Vision Devices:* As fitted by user. *Performance:* Speed, 43.5 mph (70 km/h). Range, 621 mi (1000 km). Fording Depth, 55 in (1400 mm). Max Grade, 27 %. Trench Crossing, 43 in (1100 mm). Step, 24 in (600 mm). *Usage:* Used by the Czech Republic and Slovak Army. Besides the basic T1/Z1 carrier there are nine other variants including the basic chassis (cab only), command, ambulance, radio, and UN type classified APC. *Manufacturer:* Tatra/Kerametal, Czech Republic. 2000 Veh, Recce, Alligator (4x4).

#### 2003 Carr, Veh, Armd, 6x6. Tatravan MOD.



Above: Tatravan MOD with APC rear compartment. (Photo: Kerametal)

**Remarks:** The goals of the Tatravan modernization were to up-grade the vehicle with a more powerful water-cooled engine, automatic transmission and more efficient air conditioning/NBC unit. The impetuous for the

rework of the vehicle was the new requirement for sustained operations in ambient temperature of over 131°F (+55°C) and improved cross-country capability. Another requirement was to significantly increase the mine protection of the vehicle. While the redesign and work was being completed, other subassemblies were reconstructed, reinforced and/or added. This included strengthened axles due to higher vehicle weight, introduction of an automatic transmission and a new water-cooled engine with higher horsepower. The top and sides of the driver's compartment and the rear compartment have added insulation for both protection against solar heating and to decrease the thermal signature of the vehicle. The rear compartment is held to the frame with quick-clamping devices and bolts. The manufacturer claims that the longest it should take to remove and replace a rear compartment is an hour.

**Vehicle Data:** Weight empty, 47,408 lbs (21500 kg). Loaded, 50,715 lbs (23000 kg). Length, 333 in (8460 mm). Width (w/spare tire), 106 in (2700 mm). Height (wo/wpns), 116 in (2940 mm). Ground Clearance, 15 in (390 mm). Wheel Base, 158.5 in (4025 mm). Wheel Tread, 80.5 (2044 mm). Drive, 6x6. Armor, B6 against 7.62mm AP @ 100m. NBC Protection, central air-filtration. *Armament:* (1) 7.62 mm PKT (front) and (1) 12.7mm NSV machine gun (rear). Elev & traverse, manual. Fire Control, optical. Aux wpns, crew sidearms. *Capacity:* Fuel, 119 gals (450 Liters) diesel. Crew/Passengers, 2/10. *Engine:* (1) Tatra water-cooled, multi-fuel supercharged 12-cylinder engine, producing 445 hp (330 kW) @ 2100 rpm. Location, front. *Transmission:* Tatra automatic with 6-forward and 1-reverse gear. *Suspension System:* Leaf spring front and air-coil rear. Wheels Steerable, front two axles. Turning Radius, 75.5 ft (23 m). No of wheels, 6 w/central tire inflation. Tire Size, 15.00x21. *General Data:* Elec Voltage, 24 V. Radio, intercom standard. *Night Vision Devices:* As fitted by user. *Performance:* Speed, 75 mph (120 km/h). Range, 621 mi (1000 km). Fording Depth, 55 in (1400 mm). Max Grade, 30 %. Trench Crossing, 43 in (1100 mm). Step, 24 in (600 mm). *Usage:* Used by the Czech Republic. *Manufacturer:* Tatra/Kerametal, Czech Republic.

### 2006 Veh, Recce. SVOS LRD ARM 3.



Above: SVOS armored LR Defender 110 Tdi  
(Photos: SVOS)

**Remarks:** The Czech SVOS Land Rover Defender 110 TDi Special Operations Vehicle (Armoured 3), is a partially armoured vehicle designed by for reconnaissance units. A detachable add-on armor kit includes side doors and a divided tilting windshield; a reinforced bulkhead between the engine and crew compartment, and anti-fragment protection from grenades and light mines for the bottom of the vehicle. Seating capacity is two in the front compartment and two in the rear with the weapons station. Main armament system is either a .50 caliber or 12.7mm heavy machine gun or a 30mm automatic grenade launcher. Either of the systems can be installed on the fully rotating rear mount. Extra ammunition cases are fitted on the weapons mount rear. An Optional 7.62mm LMG can be fitted to the weapon mount in front of the co-driver's seat. Standard equipment for the vehicle includes: A front mounted winch; metal baskets at the front and rear for equipment and fuel/water cans; a front mounted wire cutter; a roll-over protection frame and either customer or factory supplied communication equipment with antenna. Chassis for the vehicle is the Land Rover Defender 110 Tdi MILITARY.

**Vehicle Data:** Weight empty, (est) 6,615 lbs (3000 kg). Weight loaded, 7,740 lbs (3510 kg). Length, 197 in (4995 mm). Width, 82.5 in (2095 mm). Height, 76 in (1930 mm). Ground clearance, 12 in (310 mm). Wheel base, 109.5 in (2785 mm). Drive, 4x4. Armor, proof against 7.62mm ball. NBC protection, individual. **Armament:** As fitted by user. **Capacity:** Fuel, diesel. Crew/Pass, 4. Cargo Vol/Wgt, (est) 1,125 lbs (510 kg). **Engine:** (1) LR Type 15L in-line 4-cyl turbo-diesel producing 112 hp (83 kW) @ 4000 rpm. Location, front. Cooling, liquid. **Transmission:** Manual with 5-fwd and 1-rev gear. **Suspension System:** Coil. Steering, front

axle. No/wheels, 4. **General Data:** Elec voltage, 24V. Radio, as fitted by user. **Night Vision:** As fitted by user. **Performance:** Speed/Land, 80 mph (130 km/h). Range, (est) 621 mi (1000 km). Forging depth, 23.5 in (600 mm). **Usage:** Production started, in limited service with Czech Republic units in Afghanistan with NATO as of 2006. **Manufacturer:** SVOS, s.r.o., Choceňská 877, 535 01 Přelouč, Czech Republic.

### 2006 Carr, Pers, Armd, 4x4. SVOS LRD ARM 2.



Above: SVOS LRD ARM 2. (Photo: SVOS)

**Remarks:** The Armoured LAND ROVER DEFENDER 110 Tdi Military (Armored 2) is a special purpose armored vehicle designed by SVOS of the Czech Republic, for transportation of troops or Military/Police Units within endangered areas. As configured, the vehicle can be fitted with a Modular Dismountable Armor Kit (DAK) to protect the crew and/or passenger area. Ballistic protection in standard modification is at STANAG 4569 Level 1 (proof against 7.62mm ball). The vehicle is also fitted by anti-fragment and mine protection. Seating capacity for the ARM 2 is two in the crew compartment and up to six in the passenger section. The rear portion of the passenger compartment roof can be removed when performing convoy escort and/or routine patrolling tasks. An integrated "SPIDER" weapons mount for machine guns of up to 7.62mm can be fitted on the roof or tube frame.

**Vehicle Data:** Weight empty, 9,040 lbs (4100 kg). Weight loaded, (est) 10,143 lb (4600 kg). Length, 189 in (4800 mm). Width, 71 in (1805 mm). Height, 94 in (2385 mm). Ground clearance, 14.5 in (375 mm). Wheel base, 109 in (2775 mm). Drive, 4x4. Armor, proof against 7.62mm ball. NBC protection, individual. **Armament:** As fitted by user. **Capacity:** Fuel, (est) 25 gals (95 liters). Crew/Pass, 2/6. Cargo Vol/Wgt, (est) 1,200 lbs (545 kg). **Engine:** (1) Land Rover 300 Tdi 25L 4-cyl turbo-diesel producing 112.5 hp (83 kW) @ 4000 rpm. Location, front. Cooling, liquid. **Transmission:**

Manual with 5-fwd and 1-rev gear. *Suspension System:* Coil spring. Steering, front axle. No/wheels, 4. *General Data:* Elec voltage, 24V. Radio, as fitted by user. *Performance:* Speed/Land, 80 mph (130 km/h). Range, (est) 500 mi (805 km). Fording depth, 23.5 in (600 mm). *Usage:* As of 2007, limited production. *Manufacturer:* SVOS, s.r.o., Choceňská 877, 535 01 Přelouč, Czech Republic.