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Stryker vehicle technical manual

Official websites use .mil A .mil website belongs to an official government organization in the United States. Secure .mil websites use HTTPS A lock or https:// means you have safely connected to the .gov website. Share sensitive information only on official and secure websites. The IAV Stryker is a family of 8x8 armoured combat vehicles derived from the Canadian LAV III Armoured Flying Vehicle, which was based on the Swiss Mowag Piranha III 8x8, and produced by General Dynamics Land Systems, used by the U.S. Army and recently by Iraq. The U.S. Army chose the Stryker to have the ability to deploy a brigade around the world within 96 hours, a division within 120 hours, and five divisions within 30 days. Stryker M1126 ICV is the vehicle version of the armored infantry personnel carrier. The vehicle carries a combat team of 9 soldiers in the rear compartment. According to a representative of the General Dynamics Land Systems and the SIPRI (Stockholm International Peace Research Institute) arms trade database, a total of 32 Stryker ICV 8x8 armored infantry carrier vehicles was delivered to Colombia from 2013 to 2014. On July 26, 2019, the U.S. State Department decided to approve a possible foreign military sale to Thailand of 60 Stryker infantry carriers with equipment and support at an estimated cost of \$175 million. In August 2019, it was announced the delivery of 70 Stryker vehicles to the Royal Thai Army. In January 2020, the Thai armed forces presented their new armoured Stryker for the first time during a military parade. Variants: - M1126 (CV: Infantry Carrier (APC). Version of the carrier of the armed personnel providing the protected transport for 2 crew and a 9 man infantry team. - M1127 (RV): reconnaissance vehicle. used by RSTA (Recognition, Surveillance and Destination Acquisition) Squadrons and scouts of the battalion, moving throughout the battlefield to collect and transmit real-time intelligence/surveillance for situational awareness- M1128 (MGS): Mobile Gun System. Armed version with 105 mm gun M68A1 (M68A1E4) - M1129 (MC): Mortar Carrier. armed with Soltam 120 mm Mortar supports infantry with screening dimmers, suppressive forces and support fires (HE, lighting, IR lighting, smoke, precision guided cluster bombs and DPIC M). - M1130 (CV): the command vehicle, provides commanders with communication, data and control functions to analyze and prepare information for combat missions; it can also connect to the antenna/air power for planning missions.- M1131 (FSV): Fire Support Vehicle is organic to maneuver companies and provides surveillance and communications (4 Radio Combat Networks with the tracking of target acquisition identification, the designation is automatically transmitted to the shooting units.- M1132 (ESV): Engineer Squad Vehicle provides mobility and limited support against mobility. Integrated into the SSV are obstacle neutralization and lane lane mine detection systems and devices- M1133 (MEV): Medical Evacuation Vehicle is the Battalion rescue station for brigade units, providing treatment for severe injury and advanced trauma. M1134 (ATGM): Driven by Anti-Tank Missile Vehicle is armed with the TOW missile to strengthen infantry and brigade reconnaissance, providing long-range antitank fires against the armor beyond the actual gamma- cannon. M1135 (NBC RV): Nuclear, Biological, Chemical Reconnaissance Vehicle automatically integrates contamination information from detectors with input from weather and navigation systems and transmits NBC digital warning messages to alert follow-on forces. Armour The Stryker ICV M1126 is equipped with a M151 Kongsberg Protector remote weapon station with a universal soft mounting cradle, which can mount a 12.7mm M2 gun, MK19 40mm or MK240 7.62mm lancer. The M151 protection tower is fully stabilized and provides unparalleled observation and engagement capabilities. Detached Line of Sight (DLOS) allows the machine to maintain its views on the target regardless of the ballistic solution for the weapon / ammunition in use. The PROTECTOR comes with a thermal imager, a color day light camera and a laser range detector. Two groups of eight smoke grenade dumpers are mounted on each side of the turret. Design and protection The Stryker M1126 hull is built of high hardness steel that offers a basic protection level against 14.5 mm round on the front arc, and integral protection against ball ammunition 7.62 mm. In addition to this, Strykers are also equipped with bolt-on ceramic armor that offers integral protection against 14.5mm, armor drilling ammunition and 152mm round artillery fragments. During the war in Afghanistan, the Stryker vehicle was upgraded with a new v-hull armor kit that increases protection against landmines and IEDs (Improvised Explosive Device) The driver is sitting in front of the hull on the left with the power pack on the right. Mobility For its powerpack, the M1126 Stryker uses a common Caterpillar diesel engine in U.S. Army forklifts, eliminating additional maintenance training and allowing the use of common parts. Due to obsolescence concerns, the Caterpillar 3126 engine has recently been replaced by a Caterpillar C7 engine and Allison 3200SP. Accessories The Stryker M1126 also incorporates an automatic extinction system with sensors in engine and troop compartments that activate one or more halon fire bottles, which can also be activated by the driver, fuel tanks mounted externally and a CBRN (Chemical, Biological, Radiological, Nuclear) War system that will maintain the compartment of the crew with stagnation and positivelyThe vehicle commander also has access to a day-night thermal imaging camera that allows the vehicle commander to see what the driver sees. The vehicle commander has almost a 360 degree field of The driver, a little more than 90 degrees. Furthermore, the Commander vehicle is equipped with a digital communication system FBCB2 (Force XXI Battaglia Brigade and Under Command) which allows communication between vehicles via text messages and a network of maps, as well as the battalion. The Stryker M1126 can be transported to the ground with truck or by air on planes C-17, C-5 and C-130. The C-5 and C-17 aircraft can carry seven and four strykers respectively. Armament Armor One 7.62 mm or 12.7 mm Machine gun or 40 mm Automatic V-shaped hull launcher, Standard Armor Against Small Caliper Weapons And Shell Sheets, Armor Protection against Ided and Terrestrial Mines. National users Weight Vehicle United States, Iraq, Colombia, Thailand 16,740 Kg Designer Country Vehicle Speed United Staes 100 km / h Maximum Road Speed Accessories Vehicle Accessories Central Pneumatic Inflating, NBC Protection System, Thermal Vision Day / Night, Network Map and communication system 500 km vehicle crew size 2 + 9 length, 6.95 m; Width, 2.72 m; Width, 2.72 m; Height, 2.64 m Å, Å, Å, Å, This website uses cookies to manage authentication, navigation and other functions. Using our website, you can accept that we can insert these types of cookies on your device. Vehicle of the American army infantry M1126 Stryker. Credit: US Army. The US Defense Security Cooperation Agency (DSCA) informed the congress of a possible foreign military sales (FMS) of Stryker vehicles to the North Fruit Macedonia. Approved by the US State Department, the estimated cost of the FMS is \$ 210 million. The sales package includes 54 stryker vehicles, with M1126 infantry vehicles (ICV), M1130 control vehicles (CV), and M1129 Mortai door vehicles (MCV). M2A1 .50 gauge machine guns, M6 smoke launchers and its spare parts, Harris radios, remote remote shipstation (Crows), the advanced Defense GPS receiver, the vision upgrader of the driver AN / VAS-5 and Other parts and components are included in the package. The FMS program also includes services such as publications and technical manuals, training, technical, engineering and logistic personnel of the US government and contractors. The DSCA has declared: Å «This sales proposal will support foreign policy and national security of the United States, helping to improve the safety of a NATO ally, which is an important force for political stability and economic progress in EuropeÅ ». The General Dynamics Land Systems (GDLS) fungade by the main contractor for sale. Stryker is derived from the GDLS Canada Lav III 8ÅJA-8 Lightweight armored vehicle, which is in service from the beginning of 2001. The contract will allow the northern Macedonia to strengthen its operational capacities and force In a separate development, the U.S. State Department has approved an FMS of 120 Javelin FGM-148 missiles for Norway for an estimated value of 36 million dollars. Includes also two Javelin FGM-148 missiles fly for purchase, 24 Javelin Block 1 Command Launch Units (CLU) retrofit kits and andequipment. Raytheon / Lockheed Martin Joint Venture joint venture will serve as primary entrepreneurs for this sale. Robust military servers for customized uniform defense applications and protective clothing for military personnel Hi-furniture vehicles for military staff for military and peacekeeping operations, robust military servers for customized uniform defense applications and protective clothing for personnel Military Hi-furniture vehicles for military personnel Maintenance of peace Washington, 26 July 2019 - The State Department made a determination that approves a possible military sale abroad at Thailand of 60 carrier vehicles of Stryker infantry with equipment and support For an estimated cost of \$ 175 million. The defense protection cooperation agency resolved the certification required with the Congress of this possible sale on 26 July 2019. The Government of Thailand requested to buy sixty (60) Vehicles of Stryker infantry vehicles (ICV); and sixty (60) M2 Flex .50 Cal Machine Guns. Spare parts, basic release elements (BII) are also included, components of the final elements (COEI), additional authorized list (AAL) (specific elements for operations and maintenance), special tools and test equipment (seats), manuals Technicians, deprocessing oconus service, M6 Smoke Grenade Launchers (4 per vehicle) and associated spare parts, Enhancer Vision Driver An / VAS-5 (DVE), intercommunications system for AN / VIC-3 vehicles, fingerprint provided training and representatives of the service of Field (FSR) and other related logistics elements and program support. The cost of the total estimated program is \$ 175 million. This sales proposal will support foreign policy and national security objectives by helping to improve the safety of an important ally not born in Indo-Pacom, which is an important force for political stability and economic progress in the region. Stryker vehicles will increase the capacity of Thailand to defend its sovereign territory against traditional and non-traditional threats by filling out the void of capacity between light infantry soldiers and heavy mechanized units. Thailand will not have difficulty absorbing this equipment in its armed forces. The sale proposal of this equipment and support will not modify the basic military budget in the region. The main Contractor for the Stryker vehicle is the General Dynamics Land Systems, Sterling Heights, MI. There are no offered offset agreements proposed in relation to this potential sale. The implementation of this proposed sale will not require the assignment of other government representatives or permanent contractors u.s. U.S. There will be no negative impact on U.S.'s defense readiness. As a result of this proposal sale. This notice a potential sale is required by law and does not mean that the sale has been concluded. All questions regarding this proposed foreign military sale should be directed to the Bureau of the State Department of Political Military Affairs, the Bureau of Congress and Public, Public Affairs, -30-30-

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