

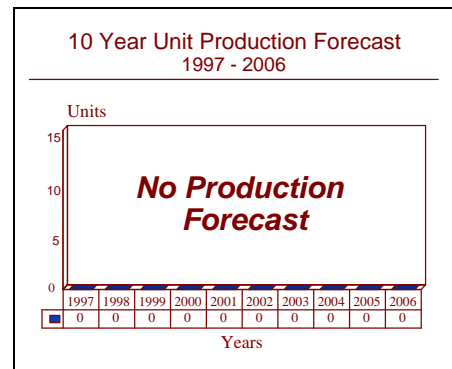
ARCHIVED REPORT

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Type 75 155 mm Self-Propelled Howitzer - Archived 4/97

Outlook

- The serial production of the Type 75 was completed in mid-1988
- A total of 202 systems was manufactured
- Some additional modernization and retrofit potential exists for this system



Orientation

Description. A tracked 155 millimeter self-propelled artillery system

Sponsor. The development and procurement of the Type 75 was sponsored by the Japanese Ministry of Defense through the Japanese Ground Self Defense Force.

Contractors. This system was developed and was manufactured by Mitsubishi Heavy Industries, Tokyo, Japan. Major subcontractors include Nihon Seiko Jyo/Japan Iron Works.

Licensees. None

Status. The production line is dormant as the serial production of the Type 75 terminated in 1988 and the system is in service with Japan.

Total Produced. A total of 202 Type 75 systems were manufactured.

Application. General mobile artillery support for the field army at the battalion and division levels.

Price Range. Because of the high production costs associated with the development and production of armored fighting vehicles in Japan, the unit price of the Type 75 was most likely among the highest of comparable systems in the world. The unit price in equivalent 1989 United States dollars was \$3,048,000.

Technical Data

Crew. Six: commander, layer, two loaders, radio operator and driver.

Muzzle Brake. Double-baffle

Recoil System. Hydropneumatic

Breech Mechanism. Interrupted screw stepped thread

Ammunition. The Type 75 can fire all United States/NATO pattern 155 millimeter ammunition including High Explosive, High Explosive Base Bleed, High Explosive Rocket Assisted Projectile, carrier projectiles, smoke, illumination and chemical projectiles. Japanese pattern ammunition has also been developed for this system.

Dimensions. The following data are for the final production standard.

	<u>SI units</u>	<u>US units</u>
Length overall	7.79 meters	25.56 feet
Width	3.09 meters	10.14 feet
Height	254.5 centimeters	8.35 feet
Combat weight	25.3 tonnes	27.89 tons
Fuel capacity	650 liters	172.87 gallons
Ordnance caliber	155 millimeters	6.10 inches
Ordnance length	30 calibers/4.65 meters	30 calibers/15.26 feet

Performance. The maximum speed and range of the vehicle is on a metalled road. The range data of the 155 millimeter cannon shown below are for the standard M107 High Explosive ammunition.

	<u>SI units</u>	<u>US units</u>
Maximum speed	47 kilometers per hour	29.18 miles per hour
Maximum range	300 kilometers	186.32 statute miles
Step	70 centimeters	2.3 feet
Trench	2.5 meters	8.20 feet
Slope	30%	30%
Gradient	60%	60%
Fording	1.3 meters	4.26 feet
Elevation	+65°	+65°
Depression	-5°	-5°
Traverse	360°	360°
Maximum ordnance range	19,000 meters	20,778.62 yards
Maximum rate of fire	6 rounds per minute	6 rounds per minute
Sustained rate of fire	2 rounds per minute	2 rounds per minute

Engine. Mitsubishi provides the model 6ZF two cycle, six cylinder, air cooled diesel engine. This engine is rated at 335.7 kilowatts (450 horsepower) at 36.67 revolutions per second (2,200 revolutions per minute). The power-to-weight ratio with this engine is 13.27 kilowatts per tonne (16.13 horsepower per ton). A 24 volt electrical system with four 12 volt 100 ampere hour batteries is the standard electrical fit of the Type 75.

Gearbox. The Type 75 uses an unspecified manual (probably of Mitsubishi origin) unit with four forward and one reverse gear ratios.

Suspension and Running Gear. The Type 75 uses a torsion bar type suspension with six dual tired road wheels on each side. The sixth road wheel is the idler; no return rollers are fitted. The first and fifth road wheel stations are fitted with a hydraulic shock damper.

Fire Control. Positioned in front of the commander and operated by the gun layer, the fire control suite of the Type 75 is somewhat austere. A J2 panoramic sight with a magnification of four power is provided as is a J3 direct telescopic sight, also with a magnification of four power. Also included are a cant angle sensor and indicator, collimator and inverter.

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