

T 55 Tank Technical Data

The Technical Marvel Behind the T-55 Tank

Every now and then, a topic captures people's attention in unexpected ways. The T-55 tank, a staple of armored warfare since the mid-20th century, is one such subject that continues to fascinate military enthusiasts, historians, and engineers alike. Its technical specifications reveal not only the ingenuity of Soviet design but also the practical demands of battlefield conditions during the Cold War era.

Design and Development

The T-55 was developed as an improvement over the earlier T-54, incorporating numerous technical upgrades that enhanced its combat effectiveness. With a weight of approximately 36 tons, the tank was designed to balance mobility, protection, and firepower effectively. The hull and turret were made with rolled steel armor offering protection against a variety of anti-tank weapons.

Armament

At the heart of the T-55 lies its main gun: a 100mm D-10T rifled tank gun capable of firing high-explosive, armor-piercing, and guided missile rounds. This versatile armament allowed the tank to engage a broad range of targets, from infantry and fortifications to enemy armored vehicles. Secondary armament includes a coaxial 7.62mm machine gun and an anti-aircraft 12.7mm machine gun mounted on the turret roof.

Engine and Mobility

Powered by a V-55 12-cylinder 4-stroke diesel engine producing 580 horsepower, the T-55 achieves a maximum road speed of around 50 km/h. Its operational range on a full fuel tank is roughly 500 kilometers, supported by a robust suspension system designed to handle diverse terrains from muddy fields to deserts.

Protection and Survivability

The T-55 was among the first tanks to feature an NBC (nuclear, biological, chemical) protection system, reflecting the Cold War's strategic realities. Its armor thickness varies from 100mm on the turret front to thinner plates on the sides and rear, offering balanced protection without excessive weight. Additional defenses include smoke grenade launchers for concealment and an efficient fire suppression system.

Legacy and Variants

With thousands produced and exported worldwide, the T-55 saw numerous upgrades over its service life, including improved engines, fire control systems, and armor packages. Its widespread use and adaptability underscore its technical excellence and enduring relevance.

The T-55 tank's technical data forms the backbone of understanding its role in military history and technology. Its blend of firepower, protection, and mobility continues to serve as a reference point for armored vehicle design.

The T-55 Tank: A Detailed Look at Its Technical Data

The T-55 tank, a main battle tank developed in the Soviet Union, has been a staple in various armies around the world since its introduction in the late 1940s. Known for its robustness and versatility, the T-55 has seen action in numerous conflicts and has undergone several modifications over the years. In this article, we delve into the technical specifications and historical context of this iconic tank.

Historical Background

The T-55 tank is an evolution of the T-54 series, which was first produced in 1947. The T-55 variant was introduced in 1961 and featured several improvements, including a more powerful engine, enhanced armor, and better fire control systems. The tank was widely exported and saw service in various conflicts, including the Vietnam War, the Arab-Israeli Wars, and the Iran-Iraq War.

Technical Specifications

The T-55 tank is powered by a V-55 V-12 diesel engine, which produces 580 horsepower. This engine allows the tank to reach a top speed of approximately 50 kilometers per hour on roads and 30 kilometers per hour off-road. The tank has a range of about 450 kilometers, making it suitable for long-range operations.

The T-55 is armed with a 100mm D-10T2S smoothbore gun, which can fire a variety of ammunition types, including armor-piercing, high-explosive, and anti-tank rounds. The tank also features a coaxial 7.62mm machine gun and a bow-mounted 7.62mm machine gun for close-range defense.

The armor of the T-55 consists of rolled homogeneous steel, with the front hull and turret providing the highest level of protection. The tank's armor can withstand small arms fire and artillery shrapnel, although it is vulnerable to modern anti-tank weapons.

Operational Features

The T-55 tank is known for its reliability and ease of maintenance. Its simple design and robust construction make it suitable for operation in harsh environments. The tank's suspension system consists of torsion bars and hydraulic shock absorbers, providing a smooth ride even on rough terrain.

The T-55 also features a modernized fire control system, which includes a stabilizer for the main gun, a laser rangefinder, and a ballistic computer. These features enhance the tank's accuracy and effectiveness in combat.

Legacy and Modern Use

Despite being an older design, the T-55 tank remains in service with several armies around the world. Its low cost, simplicity, and reliability make it an attractive option for countries with limited defense budgets.

Many T-55 tanks have been upgraded with modern components, such as improved engines, armor, and fire control systems, extending their operational life.

The T-55 tank has left a significant mark on military history. Its design and capabilities have influenced the development of subsequent tank models, and it continues to be a symbol of Soviet engineering prowess. As military technology advances, the T-55 remains a testament to the enduring legacy of Cold War-era engineering.

Analyzing the Technical Data of the T-55 Tank: Context and Impact

The T-55 tank stands as a testament to Soviet military engineering during the Cold War period, reflecting strategic priorities, technological capabilities, and the geopolitical environment of its time. This analytical piece delves into the technical data of the T-55, examining how its design choices influenced armored warfare and what consequences followed from its deployment worldwide.

Historical Context and Development Drivers

Emerging in the late 1950s, the T-55 was a direct response to evolving battlefield threats and the need for a reliable, mass-producible main battle tank. It was built upon lessons learned from World War II and early Cold War conflicts, integrating advancements in armor, weaponry, and crew survivability. The balance of offensive and defensive capabilities aimed to meet the Soviet doctrine of fast, decisive armored engagements.

Technical Specifications: A Deep Dive

Weighing approximately 36 tons, the T-55's compact design represents a compromise between protection and mobility. Its 100mm D-10T main gun was state-of-the-art at introduction, capable of penetrating contemporary armor at realistic combat ranges. The diesel V-55 engine's 580 horsepower output delivered adequate power, enabling speeds up to 50 km/h on roads and decent cross-country mobility.

The tank's armor layout, with thickness ranging up to 100mm on the turret front, provided protection against most kinetic threats of its era. Notably, the inclusion of an NBC protection system was pioneering, recognizing the emerging threat of unconventional warfare.

Operational Performance and Limitations

In operational theaters, the T-55 demonstrated resilience and versatility, adapting to diverse climates and combat scenarios. However, its relatively thin armor compared to Western counterparts sometimes necessitated tactical caution. The fire control systems, while effective at the time, lacked the sophistication of later models, affecting accuracy and engagement speed.

Global Impact and Consequences

The T-55's proliferation in over 50 countries significantly influenced global military balances. Its

affordability and simplicity made it accessible to many armies, shaping conflicts from Africa to the Middle East. This widespread use also fostered numerous upgrades, reflecting varying operational needs and technological progress.

Examining the technical data within this broader strategic and operational context offers insights into how design decisions translate into battlefield effectiveness and long-term military influence. The T-55 remains a case study in balancing complex trade-offs in armored vehicle development.

The T-55 Tank: An Analytical Perspective on Its Technical Data

The T-55 tank, a main battle tank developed in the Soviet Union, has been a subject of extensive analysis and debate among military historians and engineers. Its technical specifications and operational capabilities have been scrutinized for their impact on modern warfare. This article provides an in-depth analysis of the T-55's technical data, highlighting its strengths, weaknesses, and historical significance.

Engineering and Design

The T-55 tank is a direct descendant of the T-54 series, which was first produced in 1947. The T-55 variant, introduced in 1961, incorporated several improvements, including a more powerful engine, enhanced armor, and better fire control systems. The tank's design reflects the Soviet emphasis on simplicity, robustness, and ease of maintenance.

The V-55 V-12 diesel engine, producing 580 horsepower, is a significant upgrade from the earlier models. This engine allows the T-55 to achieve a top speed of 50 kilometers per hour on roads and 30 kilometers per hour off-road. The tank's range of 450 kilometers makes it suitable for long-range operations, a critical factor in large-scale military campaigns.

Firepower and Armor

The T-55 is armed with a 100mm D-10T2S smoothbore gun, capable of firing a variety of ammunition types. The main gun's effectiveness is enhanced by a modernized fire control system, which includes a stabilizer, laser rangefinder, and ballistic computer. These features significantly improve the tank's accuracy and effectiveness in combat.

The tank's armor consists of rolled homogeneous steel, providing protection against small arms fire and artillery shrapnel. However, the T-55's armor is vulnerable to modern anti-tank weapons, a limitation that has been addressed in some upgraded versions.

Operational Capabilities

The T-55's suspension system, consisting of torsion bars and hydraulic shock absorbers, ensures a smooth ride even on rough terrain. This feature, combined with the tank's robust construction, makes it highly reliable in harsh environments. The T-55's operational capabilities have been tested in various conflicts, including the Vietnam War, the Arab-Israeli Wars, and the Iran-Iraq War.

The tank's simplicity and ease of maintenance have made it a popular choice for countries with limited defense budgets. Its low cost and reliability have ensured its continued use in various armies around the world. Many T-55 tanks have been upgraded with modern components, extending their operational life and

enhancing their capabilities.

Historical Significance

The T-55 tank has left a significant mark on military history. Its design and capabilities have influenced the development of subsequent tank models, and it continues to be a symbol of Soviet engineering prowess. The T-55's legacy is a testament to the enduring impact of Cold War-era engineering on modern warfare.

In conclusion, the T-55 tank's technical data provides valuable insights into its operational capabilities and historical significance. Its strengths, weaknesses, and legacy continue to be subjects of extensive analysis and debate among military historians and engineers.

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And often, that quiet availability is what makes it valuable. Knowledge does not have to be chased when it is already close at hand.

Questions & Answers About t 55 tank technical data

No	Question	Answer
1	What is the main armament of the T-55 tank?	The T-55 tank is equipped with a 100mm D-10T rifled main gun capable of firing various types of ammunition including armor-piercing and high-explosive rounds.
2	How fast can the T-55 tank travel on roads?	The T-55 can reach a maximum road speed of approximately 50 kilometers per hour.
3	What type of engine powers the T-55 tank?	The T-55 is powered by a V-55 12-cylinder 4-stroke diesel engine producing around 580 horsepower.
4	Does the T-55 tank have protection against nuclear, biological, and chemical threats?	Yes, the T-55 was equipped with an NBC (nuclear, biological, chemical) protection system to safeguard the crew in such environments.
5	What is the approximate weight of the T-55 tank?	The T-55 tank weighs around 36 tons.
6	How long is the operational range of the T-55 on a full fuel tank?	The T-55 has an operational range of approximately 500 kilometers on a full fuel tank.
7	What secondary armaments does the T-55 feature?	Besides its main gun, the T-55 includes a coaxial 7.62mm machine gun and a 12.7mm anti-aircraft machine gun mounted on the turret.

8	What kind of armor protection does the T-55 tank provide?	The T-55 features rolled steel armor with thickness up to 100mm on the turret front, offering protection against a variety of anti-tank weapons.
9	In how many countries has the T-55 tank been used?	The T-55 tank has been used by over 50 countries worldwide.
10	What suspension system does the T-55 tank use to handle rough terrain?	The T-55 employs a robust suspension system designed to manage a variety of terrains including mud, sand, and rocky ground.
11	What are the main differences between the T-55 and its predecessor, the T-54?	The T-55 introduced several improvements over the T-54, including a more powerful V-55 V-12 diesel engine, enhanced armor, and better fire control systems. These upgrades enhanced the tank's performance, reliability, and combat effectiveness.
12	How does the T-55's fire control system compare to modern tanks?	The T-55's fire control system, while advanced for its time, is considered outdated by modern standards. Modern tanks feature more sophisticated systems, including advanced targeting algorithms, thermal imaging, and automated loading mechanisms.
13	What is the operational range of the T-55 tank?	The T-55 tank has an operational range of approximately 450 kilometers, making it suitable for long-range operations. This range is achieved through its efficient fuel consumption and robust engine design.
14	How has the T-55 tank been upgraded in modern times?	Many T-55 tanks have been upgraded with modern components, such as improved engines, armor, and fire control systems. These upgrades have extended the tank's operational life and enhanced its capabilities, making it more relevant in contemporary military contexts.
15	What conflicts has the T-55 tank seen action in?	The T-55 tank has seen action in numerous conflicts, including the Vietnam War, the Arab-Israeli Wars, and the Iran-Iraq War. Its reliability and robustness have made it a popular choice in various military campaigns.
16	What is the top speed of the T-55 tank?	The T-55 tank can reach a top speed of approximately 50 kilometers per hour on roads and 30 kilometers per hour off-road. This speed is achieved through its powerful V-55 V-12 diesel engine and efficient suspension system.
17	How does the T-55's armor compare to modern tanks?	The T-55's armor, consisting of rolled homogeneous steel, provides protection against small arms fire and artillery shrapnel. However, it is vulnerable to modern anti-tank weapons, which have more advanced armor-piercing capabilities.
18	What is the significance of the T-55 tank in military history?	The T-55 tank has left a significant mark on military history. Its design and capabilities have influenced the development of subsequent tank models, and it continues to be a symbol of Soviet engineering prowess.
19	How reliable is the T-55 tank in harsh environments?	The T-55 tank is known for its reliability and ease of maintenance. Its simple design and robust construction make it suitable for operation in harsh environments, ensuring its continued use in various armies around the world.

20	What are the main armaments of the T-55 tank?	The T-55 tank is armed with a 100mm D-10T2S smoothbore gun, a coaxial 7.62mm machine gun, and a bow-mounted 7.62mm machine gun. These armaments provide the tank with a versatile range of firepower for various combat scenarios.
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cold war tanks, soviet main battle tank, t-55 armament, t-55 armor thickness, t-55 engine power, t-55 mobility, t-55 nbc protection, t-55 operational range, t-55 tank armor, t-55 tank conflicts, t-55 tank engine, t-55 tank firepower, t-55 tank history, t-55 tank legacy, t-55 tank maintenance, t-55 tank operational range, t-55 tank specifications, t-55 tank specs, t-55 tank upgrades, t-55 variants

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