

T 55 tank technical data

t 55 tank technical data The T-55 tank stands as one of the most iconic and widely recognized main battle tanks developed during the Cold War era. With a durable design, versatile combat capabilities, and extensive service history, the T-55 has left a significant mark on military history worldwide. Understanding its technical specifications provides insight into its operational strengths, limitations, and legacy. This comprehensive guide delves into the detailed technical data of the T-55 tank, covering its design, armament, armor, mobility, and other critical features.

Overview of the T-55 Tank

The T-55 was developed by the Soviet Union in the late 1950s as an evolution of the T-54 tank. It was designed for mass production, ease of maintenance, and versatility in various combat scenarios. Its widespread adoption across numerous countries and conflicts underscores its tactical significance.

Design and Dimensions

Understanding the physical characteristics of the T-55 provides context for its battlefield performance.

Dimensions and Weight

1. **Length (with gun forward):** Approximately 9.43 meters (30.9 ft)
2. **Width:** About 3.37 meters (11.1 ft)
3. **Height:** Around 2.25 meters (7.4 ft)
4. **Operational Combat Weight:** 36 to 37 tonnes (approximately 39.7 to 40.8 US tons)

Hull and Turret Design

The hull features a conventional layout with the engine at the rear, fighting compartment centrally, and the driver seated at the front. The turret is cast or welded, offering 360-degree traverse with manual controls. The design emphasizes simplicity, ease of production, and repair.

Armament

The weapon systems define the tank's offensive capabilities.

Main Gun

1. **Type:** 100 mm D-10T tank gun
2. **Caliber:** 100 mm
3. **Type of ammunition:** AP (Armor-Piercing), HE (High-Explosive), APDS (Armor-Piercing Discarding Sabot), and guided missiles in later variants
4. **Maximum effective range:** Up to 1,500 meters (varies with ammunition type)
5. **Elevation range:** -5° to +15°
6. **Traverse:** 360° with manual and powered options

Coaxial and Secondary Weapons

1. **Coaxial Machine Gun:** 7.62 mm PKT machine gun
2. **Caliber:** 7.62 mm
3. **Firing Rate:** Approximately 600-800 rounds per minute
4. **Additional Machine Guns:** Often equipped with a roof-mounted PK machine gun or anti-aircraft machine guns in some variants

Advanced Fire Control and Targeting

Early models relied on basic optics, but later versions incorporated more advanced sights. The fire control system includes a telescopic gun sight, and in later versions, stabilization systems were added to improve firing accuracy on the move.

Armor and Protection

Protection is critical to survivability on the battlefield.

Hull Armor

1. **Front:** Up to 203 mm (8 inches) on the glacis plate
2. **Sides:** Varies from 75 mm to 80 mm
3. **Rear:** Approximately 45 mm to 50 mm

Turret Armor

The turret's front armor offers substantial protection, typically around 150-175 mm. Side and rear armor are considerably thinner, designed to deflect or absorb enemy fire.

Additional Protection Features

Early models lacked integrated composite armor, relying on rolled homogeneous steel. Later variants or field modifications included add-on composite/era plates for enhanced defense.

Mobility and Engine Performance

Mobility characteristics influence tactical maneuvering and battlefield dominance.

Engine Specifications

1. **Type:** V-55 12-cylinder 4-stroke diesel engine
2. **Power Output:** Approximately 580 horsepower (HP)
3. **Engine Model:** V-55 (or similar variants)

Crew and Movement

1. **Maximum Speed:** 50 km/h (31 mph) on road
2. **Operational Range:** 400-500 km (248-310 miles) on paved roads
3. **Power-to-Weight Ratio:** ~16 HP per tonne, enabling reasonable mobility
4. **Transmission:** Manual, conventional gearbox with multiple forward and reverse gears

Suspension System

The T-55 employs torsion bar suspension, offering good cross-country mobility. The suspension design allows for relatively smooth movement over rough terrain.

Operational Capabilities and Limitations

Understanding the functional aspects clarifies the tank's battlefield role.

Strengths

1. Robust armor and reliable engine
2. Widespread availability and ease of maintenance
3. Versatile armament capable of engaging various targets
4. Proven combat record across multiple conflicts

Limitations

1. Limited fire control systems in early versions
2. Protection levels less effective against modern anti-tank weaponry
3. Outdated technology compared to modern main battle tanks
4. Limited night vision and targeting capabilities in initial models

Variants and Upgrades

Throughout its service life, the T-55 saw numerous modifications.

Common Variants

1. **T-55A:** Upgraded with improved armor and fire control
2. **T-55AM:** Modernized with thermal sights and new weapon systems
3. **T-55MV:** Equipped with Kontakt-1 ERA for enhanced defense

Improvement Themes

Upgrading firepower with new ammunition or missile capabilities. Enhancing armor protection through composite or reactive armor modifications. Incorporating modern fire control, communication, and surveillance systems.

Operational History and Global Deployment

The T-55 has been adopted by over 50 countries, serving in various conflicts from the Middle East to Africa. Its simple design and proven durability have kept it relevant for decades despite newer models entering service. Conclusion The T-55 tank's technical data highlights a robust, reliable, and adaptable vehicle designed for diverse combat scenarios. Its armor, armament, and mobility features, combined with a straightforward mechanical design, have contributed to its longevity on the battlefield. While it may be considered outdated by modern standards, the T-55 remains a symbol of Cold War armor mastery and continues to serve in various military roles worldwide. Understanding its detailed technical specifications provides valuable insight into its operational capabilities and enduring legacy in armored warfare.

T-55 Tank Technical Data: An In-Depth Analysis of a Military Icon The T-55 tank stands as one of the most iconic and widely produced main battle tanks in military history. Its enduring presence on battlefields and in military arsenals across the globe speaks volumes about its design, versatility, and tactical significance. As a subject of extensive analysis and evaluation, understanding the

technical data of the T-55 provides valuable insights into its operational capabilities, technological innovations, and historical relevance. This article offers a comprehensive examination of the T-55's technical specifications, akin to a detailed product review from an expert perspective. --

Introduction to the T-55 Tank

Developed in the Soviet Union in the late 1940s, the T-55 was intended as an evolution of the earlier T-54 model, incorporating improvements in firepower, armor protection, and mobility. Its primary role was to serve as a main battle tank capable of engaging a wide variety of targets across different combat environments. Since its inception, the T-55 has been adopted by hundreds of armies worldwide, serving in numerous conflicts and adapting through various modifications. It's appreciated not only for its robust design but also for its cost-effectiveness and ease of maintenance. --

Design Philosophy and Core Technologies

The T-55's design emphasizes a balance of firepower, protection, and mobility, aligning with Soviet military doctrine of the era. Its architecture reflects a focus on simplicity, durability, and ease of mass production, which contributed heavily to its proliferation. --

Detailed Technical Specifications of the T-55

Understanding the T-55's technical data involves detailing its dimensions, armor, armament, engine, and performance parameters. Below is a comprehensive breakdown:

Dimensions and Weight

Overall Length (with gun forward): Approximately 9.3 meters (30.5 feet) Width: About 3.37 meters (11.1 feet) Height: Approximately 2.3 meters (7.5 feet) Combat Weight: Ranges between 36 and 38 metric tons — variations depend on specific configurations and up-armorings The tank's moderate size and weight facilitated strategic mobility while offering sufficient protection for its crew.

Armor Protection

Armor remains one of the T-55's distinguishing features, designed primarily for defense against small arms, shrapnel, and weaker anti-tank weapons. Its armor specifications include: Hull frontal armor: Up to 203 mm (8 inches) in some upgraded variants against HEAT rounds and anti-tank rifles Side armor: Approximately 70 mm (2.75 inches) Turret armor: Similar to hull, with frontal turret armor up to 203 mm Additional armor: Many variants feature applique armor kits for increased protection Note: The armor's effectiveness diminishes against modern anti-tank missiles and high-velocity kinetic penetrators, necessitating evolutionary upgrades on later models.

Firepower and Armament

The core armament of the T-55 reflects its role as a main battle tank designed for versatility: Main Gun: 100 mm D-10T tank gun (later models may feature improved versions like the D-10T2 or 105 mm in some variants) Ammunition Types: Armor-piercing APFSDS High-explosive anti-tank (HEAT) High-explosive fragmentation (HE-FRAG) Smoke shells Secondary Armament: 7.62 mm PKT coaxial machine gun 12.7 mm DShK anti-aircraft machine gun (often mounted on the turret roof) The main gun's caliber, combined with a variety of ammunition, allows the T-55 to engage and destroy a broad spectrum of targets at effective ranges up to 1,000 meters and beyond.

Fire Control System

Initially, the T-55's fire control capabilities were quite basic, relying on manual targeting and no sophisticated fire control computer. Upgrades over time introduced: Sighting devices: Mechanical periscopes and optical sights Ballistic computers: Early versions

lacked them; later variants incorporated more advanced systems, but generally the T-55 is considered to have limited fire control compared to modern tanks

Engine and Mobility

Powertrain specifics are critical for understanding operational agility: Engine Type: Diesel V-55 (or V-54 in earlier versions), a 12-cylinder, water-cooled, 38.8-liter engine Power Output: Approximately 500 horsepower (370 kW) Maximum Road Speed: Around 50 km/h (31 mph) Operational Range: Near 400 km (about 250 miles), depending on terrain and configuration Transmission: Mechanical, 4 forward gears and 1 reverse The engine provides decent acceleration and cruising capability, enabling the tank to maneuver effectively on varying terrains.

Suspension and Mobility

Suspension System: Torsion bar suspension, which offers a balance of ride stability and shock absorption Track Type: Steel tracks with rubber pads, suitable for a variety of terrains including mud, snow, and desert environments Ground Pressure: Moderate, facilitating navigation in diverse environments --

Variants and Upgrades of the T-55

Throughout its production life, the T-55 has undergone numerous modifications to improve its combat potential: T-55A: Featured improved turret armor and upgraded sighting systems T-55AM: Introduced more advanced fire control systems, night vision devices T-55MV: Modernized with explosive reactive armor (ERA), upgraded gun systems T-55AM2: Integrated laser rangefinders and advanced ballistic computers in some versions These variants showcase the tank's adaptability and its ability to integrate new technologies in response to evolving threats. --

Operational Performance and Effectiveness

The T-55's technical data points to a vehicle designed for mass deployment, ease of maintenance, and reliable performance. Its combination of armament, armor, and mobility has historically proven effective in various combat scenarios, though it faces limitations against modern anti-tank missile systems and advanced kinetic energy rounds. Its relatively simple design enables repair and field maintenance in diverse environments, which is one of the reasons it remains in service with many armies. --

Strategic Significance and Legacy

The design philosophy and technical specifications of the T-55 have influenced subsequent generations of tanks worldwide. Its robustness and versatility made it a preferred choice for developing armies, especially during the Cold War era. Although newer main battle tanks have surpassed it in firepower and armor, the T-55's cost-effectiveness and ease of production sustain its relevance. --

Conclusion

The technical data of the T-55 tank encapsulates a vehicle that has stood the test of time, balancing core components to maximize battlefield utility. Its dimensions, armor protection, firepower, and mobility reflect a design tailored for mass deployment and robustness rather than cutting-edge technological sophistication. From an expert review perspective, the T-55's enduring legacy is rooted in its simple yet effective engineering, which has allowed it to serve in various military scenarios worldwide for over seven decades. While modern conflicts demand advanced capabilities, the T-55 remains a testament to the value of reliable, versatile military machinery. -- In summary: The T-55's compact size and moderate weight contribute to strategic mobility. Its armor provides sufficient protection against contemporary threats of its era but requires upgrades today. The main 100 mm gun, combined with a variety of ammunition types, ensures versatile engagement capabilities. A reliable diesel engine and torsion bar suspension provide balanced mobility across terrains. Its various upgraded variants demonstrate ongoing adaptability in modernization efforts. For

military historians, defense analysts, and enthusiasts, understanding the technical data of the T-55 is essential to appreciating its role in both historical and modern military contexts. Its design philosophy continues to influence tank development and underscores the importance of simplicity and reliability in armored warfare.

There is a moment many readers recognize, even if they rarely talk about it. A moment when a question appears unexpectedly, or when curiosity quietly interrupts routine. In the past, that moment often ended without resolution. Access was limited, time was short, and information felt distant. The option to download ***T 55 Tank Technical Data*** has changed that experience in subtle but meaningful ways.

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Portability reinforces this sense of freedom. Carrying an entire book collection without physical weight changes how people think about reading. Choices expand. A reader might open one book for reference, switch to another for context, and return again when needed. This flexibility encourages exploration instead of commitment to a single path.

The structure of PDF files supports this approach. Pages remain stable, visuals stay aligned, and references remain easy to follow. Readers can trust what they see, which allows them to focus on meaning rather than format. This consistency is especially valuable for material that requires careful attention or repeated review.

Interaction transforms reading into something more personal. Highlighted lines reflect moments of recognition. Notes capture thoughts that arise during reflection. Bookmarks mark pauses rather than endings. Over time, ***T 55 Tank Technical Data*** becomes layered with the reader's own insights, turning the book into a record of learning rather than a static object.

Search functionality further changes expectations. Readers no longer hesitate to return to a text because locating information feels effortless. A concept, a term, or a specific idea can be found in seconds. This ease encourages frequent revisits, reinforcing memory and understanding.

Cost accessibility also shapes behavior. When knowledge is affordable or freely available through legal platforms, curiosity feels less risky. Readers explore unfamiliar topics without worrying about wasted investment. This openness often leads to unexpected discoveries and broader perspectives.

Public domain libraries and open-access repositories play a crucial role here. Platforms such as Project Gutenberg, Open Library, and Internet Archive preserve valuable works while keeping them available to a global audience. Academic platforms add depth by offering research materials that complement books and encourage deeper inquiry.

Using trusted sources matters. Reliable platforms provide accurate content and protect users from security risks. Ethical access supports the systems that make knowledge available while respecting the work of authors and institutions.

For professionals, downloadable books often function as quiet companions. They sit ready for consultation when questions arise or when clarity is needed. Instead of interrupting workflow, these resources integrate smoothly into problem-solving and decision-making processes.

Students experience similar benefits. Learning becomes more adaptable when materials are always within reach. Late-night revisions, last-minute reviews, or slow rereading of complex sections all become manageable. The ability to return to content repeatedly supports deeper understanding.

Different personalities approach reading differently, and downloadable formats respect those differences. Some readers prefer careful progression, while others jump between sections guided by interest. Both approaches remain valid, and neither is constrained by format.

Accessibility tools further expand participation. Adjustable text size, reading assistance features, and compatibility with support technologies ensure that more people can engage comfortably. These options quietly remove barriers that once limited access.

Organization also becomes part of the experience. Digital libraries grow over time, reflecting evolving interests and priorities. Books remain easy to locate, notes stay preserved, and learning feels cumulative rather than fragmented.

Another subtle shift lies in confidence. When readers know they can return to a resource at any time, they feel less pressure to understand everything immediately. This patience allows ideas to settle naturally, improving retention and clarity.

Global access adds richness to the experience. Readers from different backgrounds engage with the same material, often bringing unique interpretations. This shared access broadens perspectives and reminds readers that learning is a collective process.

Perhaps the most meaningful impact of downloading **T 55 Tank Technical Data** is how it changes attitude. Learning feels approachable. Curiosity feels safe. Exploration feels rewarding rather than overwhelming.

Books stop being destinations and start becoming companions. They wait patiently, ready to be opened again whenever questions return. There is no urgency, only availability.

Over time, these small interactions accumulate. Understanding deepens quietly. Interests expand naturally. Knowledge grows not through pressure, but through consistency and openness.

Accessing **T 55 Tank Technical Data** in this way does not replace traditional reading habits. It complements them, allowing learning to move at a pace that reflects real life. Pages are revisited, ideas reconsidered, and insights refined gradually.

In the end, what matters most is not how quickly information is consumed, but how comfortably it stays within reach. When knowledge feels present rather than distant, learning becomes less about effort and more about connection. And that connection often continues long after the book is first opened.

Questions & Answers About t 55 tank technical data

No	Question	Answer
1	What is the weight and overall dimensions of the T-55 tank?	The T-55 tank has a combat weight of approximately 36 tons, with a length of about 9.3 meters (including gun), a width of 3.37 meters, and a height of around 2.5 meters.
2	What is the main armament of the T-55 tank?	The primary weapon of the T-55 is a 100mm rifled gun, capable of firing high-explosive, armor-piercing, and guided missiles, complemented by a coaxial 7.62mm machine gun.
3	What kind of armor protection does the T-55 have?	The T-55 features welded steel armor with varying thickness, up to 203mm on the front of the turret and around 80–90mm on the hull, providing effective protection against small arms and some anti-tank weapons.
4	What type of engine does the T-55 use and what are its performance specifications?	The T-55 is powered by a V-55 12-cylinder diesel engine producing approximately 580 horsepower, enabling a top speed of around 50 km/h on road and a range of about 500 km.
5	What is the crew complement and typical operational features of the T-55?	The T-55 crew consists of four members: a commander, gunner, loader, and driver, with features including a snorkel for water crossings and basic night vision equipment in later variants.

6	How does the T-55 compare technologically with modern main battle tanks?	While historically significant, the T-55's technology is outdated compared to modern tanks, lacking advanced fire control, composite armor, and sophisticated targeting systems, but it remains in service in some regions due to its simplicity and low cost.
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T55 tank specifications, T55 armor details, T55 engine performance, T55 weapon systems, T55 armament data, T55 firepower, T55 weight and dimensions, T55 production history, T55 modernization features, T55 operational capabilities

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