

120mm Gun Combat Tank M103

United States. Dept. of Defense

M103 Heavy Tank 1950-74 Kenneth W Estes, 2013-03-19 The T43 design represented the pinnacle of U.S. Army tank engineering of the late 1940s, with its cast elliptical hull and turret, Continental AV-1790 engine, cross-drive transmission, and torsion bar suspension. A range-finder and mechanical computer directed a powerful 120mm main gun in a novel electro-hydraulic turret, among other features. The heavy tank proved fairly popular with its crews, who above all respected the powerful armament it carried. Many challenges to the crewmen were taken on with a sense of pride. Typical was the job of the second loader to hand-ram both the projectile (positioned by the first loader at the breech) and the propellant cartridge into the chamber in a single movement, all within the confines of a narrow turret. The outbreak of war in Korea brought a rush order in December 1950 which led to a complete production run of 300 vehicles, considered sufficient for Army and Marine Corps requirements. As might have been expected from the rush to production, the T43E1 failed its initial trials at Ft. Knox, mostly for erratic gun controls and poor ballistic performance of the projectiles. A modification program (of over 100 discrepancies) resulted in the standardization of the T43E1 as the 120mm gun combat tank, M103 in 1956. After 1951, the Marine Corps alone retained confidence in the heavy tank program, investing its scarce funds in the improvements necessary to bring about its fielding after a hurried production run in midst of the 'tank crisis' of the year 1950-51. Without the Marine Corps' determination to bring the M103 to operational status, it seems clear that the 300 vehicles would have languished in storage before their eventual disposal. The correctness of the Marine Corps support of the M103 tank was in no small way acknowledged by the Army's borrowing of 72 M103A1 improved USMC tanks necessary for its single heavy tank battalion in Germany. No other weapon system, before the era of antitank missiles, could guarantee the destruction of the Russian heavies, which continued their service through the late 1960s. The eventual retirement of the M103 in 1972, over 20 years after manufacture and after 14 years of operational service, demonstrated the soundness of its engineering and fulfillment of its designed role. It may have been the unwanted 'ugly duckling' of the Army, which refrained from naming the M103 alone of all its postwar tanks. For the Marine Corps, it served the purpose defined for it in 1949 until the automotive and weapons technology of the United States could produce viable alternatives.

M103 Heavy Tank 1950-74 Kenneth W Estes, 2013-03-20 The T43 design represented the pinnacle of U.S. Army tank engineering of the late 1940s. The heavy tank proved fairly popular with its crews, who above all respected the powerful armament it carried. The outbreak of war in Korea brought a rush order in December 1950 which led to a complete production run of 300 vehicles. After 1951, the Marine Corps alone retained confidence in the heavy tank program, investing its scarce funds in the improvements necessary to bring about its fielding after a hurried production run in midst of the 'tank crisis' of the year 1950-51. The eventual retirement of the M103 in 1972, over 20 years after manufacture and after 14 years of operational service, demonstrated the soundness of its engineering. It may have been the unwanted 'ugly duckling' of the Army, which refrained from naming the M103 alone of all its postwar tanks. For the Marine Corps, it served the purpose defined for it in 1949 until the automotive and weapons technology of the United States could produce viable alternatives.

British Battle Tanks Simon Dunstan, 2020-01-23 This book, the last in a four-part series on British Battle Tanks covering the whole history of British armoured warfare, concentrates on those vehicles that have served following the end of World War II up to the present day. Starting with the Centurion, the title explores those types that equipped the armoured divisions lined up on the German plains to resist any potential Soviet offensive, as well as in Korea and Suez, including the Chieftain and Conqueror, and modern tanks such as the Challenger 2 which are still in service today. Covering the many variants of these and other tanks in British service as well as their deployments around the world, including in Afghanistan and Iraq, this illustrated volume is a comprehensive guide to the development of British tanks since the Second World War.

Armor, 2008

M103 Heavy Tank 1950-74 Kenneth W Estes, 2013-03-20 The T43 design represented the pinnacle of U.S. Army tank engineering of the late 1940s. The heavy tank proved fairly popular with its crews, who above all respected the powerful armament it carried. The outbreak of war in Korea brought a rush order in December 1950 which led to a complete production run of 300 vehicles. After 1951, the Marine Corps alone retained confidence in the heavy tank program, investing its scarce funds in the improvements necessary to bring about its fielding after a hurried production run in midst of the 'tank crisis' of the year 1950-51. The eventual retirement of the M103 in 1972, over 20 years after manufacture and after 14 years of operational service, demonstrated the soundness of its engineering. It may have been the unwanted 'ugly duckling' of the Army, which refrained from naming the M103 alone of all its postwar tanks. For the Marine Corps, it served the purpose defined for it in 1949 until the automotive and weapons technology of the United States could produce viable alternatives.

Index of Specifications and Standards, 2005

US Cold War Tanks and Armoured Fighting Vehicles Michael Green, 2019-08-30 This expert study of the U.S. military's armored vehicles deployed during the Cold War features rare photographs from the wartime archives. To counter the Soviet threat and that of their client States during the Cold War years 1949-1991, the American military deployed an impressive range of main battle tanks and armored fighting vehicles. Expert author Michael Green presents a detailed study of these vehicles and their variants in this informative volume of stunning wartime photographs. The Patton series of medium main battle tanks—including the M46, M47 and M48—supplemented by the M103s Heavy Tank initially formed the core of the US tank fleet. In 1960 the M60 MBT entered service and, in turn, was replaced by the M1 Abrams in 1980. In support were armored reconnaissance vehicles, progressively the M41 bull dog (1951); the M114 (1961), the M551 Sheridan (1967) and M3 Bradley Cavalry Fighting Vehicle (1981). The armored personnel carrier range included the ubiquitous M113 and its replacement the M2 Bradley, cousin of the M3. All of these vehicles are covered in this highly detailed volume in the Images of War series.

Modern U.S. Tanks and AFVs Michael Green Greg Stewart, Conceived during World War I, tanks still play a crucial role on the modern battlefield providing excellent mobility, sophisticated communications, lethal firepower, and effective armor protection. Together, these assets provide the shock effect necessary to close with and destroy the enemy in most any condition. Modern U.S. Tanks & AFVs examines the development, capabilities, and service histories of some of the most important and interesting tanks, armored fighting vehicles (AFVs), wheeled armored firepower, and indirect armored fire-support vehicles used by the U.S. military today, including: amphibious assault vehicles (AAVP), the full range of M1 Abrams tanks, Bradleys, armored Humvees, and Strykers. Color photographs depict each type in training exercises. There will also be discussions of how the 1999 Army Vision transformation strategy calling for lighter and more maneuverable armed forces precipitated the development of some of the weapons covered.

The Patton Tank Michael Green, 2012-12-19 The military historian and tank expert examines the evolution of the Patton tank through archival photographs across four decades of armored warfare. In the early Cold War years, a tank more powerful than the Sherman or Pershing was needed. The first Patton tanks—the M46s—were converted Pershings which saw service in Korea. The M47, with a more effective 90mm gun and turret, was then developed to counter the Soviet military threat. Later, the diesel-powered M48A3 was used by the US Marine Corps and US Army in South Vietnam. Further Patton models emerged in the coming decades, including the diesel-powered M60 series with its British-designed 105mm gun. Pattons were also made into specialist vehicles, including anti-aircraft, flame throwers, recovery and combat engineer vehicles. Other countries, notably Israel, made their own modifications to their M48s as well. In this volume full of superbly detailed wartime photographs, American tank expert Michael Green discusses all of these variations and their uses in combat zones around the world.

M1 Abrams Tank Michael Green, 2015-10-30 This pictorial history of the legendary M1 Abrams Tank illustrates its versatility and advancement from the Cold War Era to the present day. The M1 Abrams has proved itself to be the finest main battle tank in the world since its introduction into US Army service in 1981. It combines the ultimate balance between firepower, mobility and protection as demonstrated by its superior performance during the two Gulf Wars and in Afghanistan. It routed the Soviet equipment of Saddam Hussein's army and today remains the yardstick by which friends' and foes' MBTs are judged. As military expert Michael Green demonstrates in this illustrated history, the M1's versatility, and its continual modernization of weaponry armor and engineering, guarantees that it will remain the US Army's spearpoint for years to come. With its comprehensive collection of images and authoritative text, this volume is an ideal resource for information on M1 Abrams Tank design and combat operations.

M1 Abrams at War Michael Green,2005 The impact of the M1 tank cannot be overstated; while applying lessons learned from mistakes of the past, this new tank defined tanks and armored warfare for the foreseeable future. It redefined how the U.S. Army thought, planned, trained, and fought. The M1 carried the army into an order-of-magnitude change that ran the gamut of ground warfare. The speed that the army moved across the battlefield was increased, the methods used to supply this faster-moving force were redefined and mastered, the methods used to provide supporting fire from artillery and close-air-support aircraft were redefined and mastered, and the decision-making process used by the leadership at virtually all levels was accelerated. For the first time in history, the U.S. Army had the best tank in the world. The M1 Abrams became the yardstick for foreign countries potential enemies, and friends alike, to measure the capabilities of their own tanks ... the M1 embodied what arguably may be the ultimate balance of the three classic tank design criteria - firepower, mobility, and protection--Introduction.

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U.S. Army XM-1 Tank Program United States. Congress. Senate. Committee on Armed Services,1976

Military Publications United States. Department of the Army,1965

Firepower Richard Hunnicutt,2018-03-06 Featuring hundreds of photos from the national archives, diagrams, and detailed specifications, Hunnicutt's Firepower remains the definitive developmental history of the heavy tank for the military historian, professional soldier, and tank restorer. This ambitious entry in R.P. Hunnicutt's 10-volume compendium of American tank history details the development of the heavy tanks from its initial conception in World War I to its final development in the 1960s. First developed after WWI, various iterations of the heavy armored military vehicle have served as a crucial component of American military operations in all manner of engagements. Hunnicutt spares no detail as he examines the origins and deployment of the Mark VIII and T1 and M6 in the 1930s and 1940s. First conceived as a vehicle to be used for infantry support, by the end of WWI, the heavy tank had evolved into the modern concept with a powerful turret mounted antitank gun protected by heavy armor--a fighting machine in its own right. Hunnicutt provides detailed technical information about these vehicles and their role in the U.S. Army and Marines. The M103A product-improved descendant of the T43 tanks and its many variations is also treated with exacting detail by Hunnicutt, who takes us through the numerous and important variations on the heavy tank design. Spanning the history of America's most widely used main battle tank, Hunnicutt's Firepower is an absolute must-have for anyone interested in the history of the American military. Readers interested in related titles from R. P. Hunnicutt will also want to see: Abrams (ISBN: 9781626542556), Armored Car (ISBN: 9781626541559), Bradley (ISBN: 9781626542525), Half-Track (ISBN: 9781626541320), Patton (ISBN: 9781626548794), Pershing (ISBN: 9781626541672), Sheridan (ISBN: 9781626541542), Sherman (ISBN: 9781626548619), Stuart (History of the American Light Tank, Vol. 1) (ISBN: 9781626548626), Firepower (ISBN: 9781635615036), Firepower (ISBN: FIREPOWER_WOT), Firepower (ISBN: 9781635615036), Firepower (ISBN: FIREPOWER_WOT).

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In some sort of taken by monitors and the ceaseless chatter of fast interaction, the melodic beauty and psychological symphony developed by the written term often fade in to the back ground, eclipsed by the relentless sound and disruptions that permeate our lives. Nevertheless, set within the pages of **120mm Gun Combat Tank M103** a marvelous literary value overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that interesting masterpiece conducts readers on a psychological journey, well unraveling the hidden tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this touching examination, we will investigate the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

Table of Contents 120mm Gun Combat Tank M103

1. Understanding the eBook 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ The Rise of Digital Reading 120mm Gun Combat Tank M103◦ Advantages of eBooks Over Traditional Books	5. Accessing 120mm Gun Combat Tank M103 Free and Paid eBooks <ul style="list-style-type: none">◦ 120mm Gun Combat Tank M103 Public Domain eBooks◦ 120mm Gun Combat Tank M103 eBook Subscription Services◦ 120mm Gun Combat Tank M103 Budget-Friendly Options	120mm Gun Combat Tank M103
2. Identifying 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Exploring Different Genres◦ Considering Fiction vs. Non-Fiction◦ Determining Your Reading Goals	6. Navigating 120mm Gun Combat Tank M103 eBook Formats <ul style="list-style-type: none">◦ ePub, PDF, MOBI, and More◦ 120mm Gun Combat Tank M103 Compatibility with Devices◦ 120mm Gun Combat Tank M103 Enhanced eBook Features	9. Balancing eBooks and Physical Books 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Benefits of a Digital Library◦ Creating a Diverse Reading Collection 120mm Gun Combat Tank M103
3. Choosing the Right eBook Platform <ul style="list-style-type: none">◦ Popular eBook Platforms◦ Features to Look for in an 120mm Gun Combat Tank M103◦ User-Friendly Interface	7. Enhancing Your Reading Experience <ul style="list-style-type: none">◦ Adjustable Fonts and Text Sizes of 120mm Gun Combat Tank M103◦ Highlighting and Note-Taking 120mm Gun Combat Tank M103◦ Interactive Elements 120mm Gun Combat Tank M103	10. Overcoming Reading Challenges <ul style="list-style-type: none">◦ Dealing with Digital Eye Strain◦ Minimizing Distractions◦ Managing Screen Time
4. Exploring eBook Recommendations from 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Personalized Recommendations◦ 120mm Gun Combat Tank M103 User Reviews and Ratings◦ 120mm Gun Combat Tank M103 and Bestseller Lists	8. Staying Engaged with 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Joining Online Reading Communities◦ Participating in Virtual Book Clubs◦ Following Authors and Publishers	11. Cultivating a Reading Routine 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Setting Reading Goals 120mm Gun Combat Tank M103◦ Carving Out Dedicated Reading Time
		12. Sourcing Reliable Information of 120mm Gun Combat Tank M103 <ul style="list-style-type: none">◦ Fact-Checking eBook Content of 120mm Gun Combat Tank M103◦ Distinguishing Credible Sources
		13. Promoting Lifelong Learning <ul style="list-style-type: none">◦ Utilizing eBooks for Skill Development◦ Exploring Educational eBooks
		14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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