

# Axis Combat Tanks

WW2  
FACT FILES

PETER CHAMBERLAIN and CHRIS ELLIS



The tank was one of the dominant weapons of World War 2 and had a decisive effect on the conflict. This Fact File provides detailed specifications, historical data and many photographs of the various Axis tanks that saw combat on all fronts during World War 2. They range from the Japanese mini tanks of 3 tons to the massive German Royal Tiger tank of 70 tons. Specialist tanks such as bridge-laying and flail tanks will be dealt with in another Fact File.



# Axis Combat Tanks

**Donald A Bertke, Gordon Smith, Don  
Kindell**



## **Axis Combat Tanks:**

Axis Combat Tanks Peter Chamberlain, *Axis Tanks of the Second World War* Michael Green, 2020-01-24 This pictorial history presents an in depth study of the various tanks built and deployed by the Axis Alliance during WWII Though Nazi Panzer tanks have become a ubiquitous symbol of Axis Alliance combat the Japanese Army had more tanks than Germany in 1938 These included the Type 95 light tank and the Type 89 and 97 medium tanks Other Axis powers including Italy Romania and Hungary also built their own tanks The latter was responsible for the Toldi and Turan light tank series In this informative collection of wartime photographs military expert Michael Green discusses how the Axis powers drew on British and French tank designs in the period leading up to the Second World War The Carden Loyd tankette suspension was used as a model for the Panzer 1 series as well as the light Italian and Japanese tanks German engineering talent then produced the ingenious designs of the Panzer II III and IV series and later in the War the Panther Medium and Tiger heavy tanks Axis Combat Tanks; World War 2 Fact Files Peter Chamberlain, 1978 **The axis forces 6** Massimiliano Afiero, 2018-04-11 In this issue The Kampfgruppe Rehmann summer 1944 Albert Frey Knight s Cross with Oakleaves Holder The French Legion through the eyes of an SS Kriegsberichter Free Corps Denmark at Velikije Luki Hungarian Armored Forces in WW2 2nd part **Allied and Axis Signals Intelligence in World War II** David Alvarez, 2013-11-05 The importance of codebreaking and signals intelligence in the diplomacy and military operations of World War II is reflected in this study of the cryptanalysts not only of the US and Britain but all the Allies The codebreaking war was a global conflict in which many countries were active The contributions reveal that for the Axis as well as the Allies success in the signals war often depended upon close collaboration among alliance partners *Big Wars* John Storey, 2021-09-01 World War II was the biggest and most destructive war in history For two centuries wars had grown ever larger with the use of more terrible weapons and rising casualties culminating in the cataclysmic global events of 1939 45 And then quite suddenly large international wars have all but disappeared What caused wars to grow in size to such an extent and then shrink so precipitously Is this a permanent state of affairs or could big wars make a comeback Lawyer and historian John P Storey explores these questions by looking at the evolution of military technology and tactics over the long history of warfare From ancient bronze spears and chariots to World War II tanks and warplanes from the nuclear weapons of the Cold War to the drones and robotics of the future the changes in our methods of waging war has had and will continue to have a major impact on their size and destructiveness The sobering conclusion Storey makes is that based on past trends and the weapons in the pipeline for the future there is a much higher risk of there being much bigger wars in the coming decades **Endgame at Stalingrad** David M. Glantz, Jonathan M. House, 2014-04-14 The campaign intended to secure the Wehrmacht s flanks had proven one front too many for the German Army And now the offensive at Stalingrad the epic clash that marked Germany s failure on the Eastern Front was entering its grim final phase In Book One of the third volume of his acclaimed Stalingrad Trilogy David Glantz

offers the definitive account the ground truth to counter a half century's worth of myth and misinformation of the beginning of the end of one of the most infamous battles of the Second World War and one of the most costly in lives and treasure in the annals of history When Volume Two left off Germany's vaunted Sixth Army already deflected from its original goal the Caucasus oil fields had been drawn into a desperate war of attrition within the ravaged city of Stalingrad In Volume Three Book One we see the ultimate consequences of the Germans overreach and the gathering force of the Red Army's massive manpower and increasingly sophisticated command After failing repeatedly to find and exploit the weaknesses in Axis defenses Stalin and the Stavka High Command finally seized their chance in mid November of 1942 by launching a bold and devastating counteroffensive Operation Uranus Glantz draws a detailed and vivid account of how in Operation Uranus the Red Army's three fronts defeated and largely destroyed two Romanian armies and encircled the German Sixth Army and half of the German Fourth Panzer Army in the Stalingrad pocket turning the Germans world on its head Like its predecessor volumes this one makes extensive use of sources previously out of reach or presumed lost such as reports from the Sixth Army's combat journal and newly released Soviet and Russian records These materials many cited at length or printed in their entirety in a companion volume lend themselves to a strikingly new interpretation of the campaign's planning and execution on both sides a version of events that once and for all gets at the ground truth of this historic confrontation

Axis Rising Ryan Devries, 2024-12-12 Axis Rising The Beginner's Guide to the Second World War is the book to read for a quick easy to understand yet comprehensive overview of World War Two Beginning with the birth of Hitler and following through the entire war and its aftermath this guide is perfect for those wanting to gain an understanding of the causes and major events of World War Two While exploring each significant battle advance in technology and strategy change by both sides Axis Rising brings to light each of the war's turning points and their consequences Written in easy to digest chunks of information that include all the necessary background information to understand the significance of each event this book condenses one of the most complex pieces of humanity's history into an accessible yet fascinating guide Whether you are reading Axis Rising for an academic course or your own interest this book is all you need to turn from a beginner historian into an expert on the world's deadliest multi nation conflict

World War II Sea War, Vol 6: The Allies Halt the Axis Advance Donald A Bertke, Gordon Smith, Don Kindell, 2014-05-17 Major Pacific actions from April through August 1942 include the Japanese attack on Ceylon the Doolittle Raid on Japan the battle of the Coral Sea the battle of Midway Island the U S landing on Guadalcanal the battle of Savo Island and the battle of the eastern Solomon Islands Arctic actions include battle for convoy PQ 17 In Mediterranean the Royal Navy interdicts Axis supply lines along Libyan and Egyptian coasts In the Atlantic the U S implements convoys along the East Coast

**The Battle for Kursk, 1943** David M. Glantz, Harold S. Orenstein, 2021-04-14 This volume offers detailed information about the Red Army's preparation for and conduct of the Battle of Kursk the nature of the war on the German Eastern Front and on the range of horrors that have characterized warfare in

the 20th century      **World War II Tanks** Eric Grove,1976 The development construction and role in combat of the principal tanks and self propelled guns are described in depth      **Battle for Belorussia** David M. Glantz,Mary Elizabeth Glantz,2016-11-30 Continuing his magisterial account of the Eastern Front campaigns the writer cited by The Atlantic as indisputably the West s foremost expert on the subject focuses here on the Red Army s operations from the fall of 1943 through the April 1944 David M Glantz chronicles the Soviet Army s efforts to further exploit their post Kursk gains and accelerate a counteroffensive that would eventually take them all the way to Berlin The Red Army s Operation Bagration that liberated Belorussia in June 1944 sits like a colossus in the annals of World War II history What is little noted in the history books however is that the Bagration offensive was not the Soviets first attempt Battle for Belorussia tells the story of how eight months earlier and acting under the direction of Stalin and his Stavka three Red Army fronts conducted multiple simultaneous and successive operations along a nearly 400 mile front in an effort to liberate Belorussia and capture Minsk its capital city The campaign with over 700 000 casualties was a Red Army failure Glantz describes in detail the series of offensives with their markedly different and ultimately disappointing results that contrary to later accounts effectively shifted Stalin s focus to the Ukraine as a more manageable theater of military operations Restoring the first Belorussian offensive to its place in history this work also reveals for the first time what the later successful Bagration operation owed to its forgotten precursor      The Axis Forces 9 Massimiliano Afiero,2019-02-17 In this issue Let s start with the second part of the article dedicated to the Dutch Legion richly illustrated We continue with the biography of Zvonimir Bernwald at first a volunteer in the Handschar Division and then in the 31st SS Division It continues with the third part of the article dedicated to the Barbarigo battalion on the Anzio front with a new excerpt from the new book by Tomasz Borowski on the last combat actions of the French volunteers of Charlemagne the fourth and final part of the photographic report dedicated to the SS Hauptsturmfu hrer Hans J rg Hartmann and we close with a long and comprehensive article on Romanian armored formations      *Review of Current Military Literature* ,1950      Quarterly Review of Military Literature ,1950      **Germany and the Axis Powers from Coalition to Collapse** R. L. DiNardo,2005 It seemed that whenever Mussolini acted on his own it was bad news for Hitler Indeed the Fuhrer s relations with his Axis partners were fraught with an almost total lack of coordination Compared to the Allies the coalition was hardly an alliance at all Focusing on Germany s military relations with Italy Romania Hungary and Finland Richard DiNardo unearths a wealth of information that reveals how the Axis coalition largely undermined Hitler s objectives from the Eastern Front to the Balkans Mediterranean and North Africa DiNardo argues that the Axis military alliance was doomed from the beginning by a lack of common war aims the absence of a unified command structure and each nation s fundamental mistrust of the others Germany was disinclined to make the kinds of compromises that successful wartime partnerships demanded and because Hitler insisted on separate pacts with each nation Italy and Finland often found themselves conducting counterproductive parallel wars on their own DiNardo s detailed

assessments of ground naval and air operations reveal precisely why the Axis allies were so dysfunctional as a collective force sometimes for seemingly mundane but vital reasons a shortage of interpreters for example His analysis covers coalition warfare at every level demonstrating that some military services were better at working with their allies than others while also pointing to rare successes such as Rommel's effective coordination with Italian forces in North Africa In the end while some individual Axis units fought with distinction if not on a par with the vaunted Wehrmacht and helped Germany achieve some of its military aims the coalition's overall military performance was riddled with disappointments Breaking new ground DiNardo's work enlarges our understanding of Germany's defeat while at the same time offering a timely reminder of the challenges presented by coalition warfare **Soviet Military Thought**, 1970 *The Decline Effect* Dean

Brooks, 2023-01-31 A crisis is coming for everyone who uses math and science For decades now the classical model of probability the indifference principle and the Gaussian distribution has been breaking down and revealing its limitations in fields from economics to epidemiology Now a new approach has revealed the underlying non classical principle behind all these anomalous laws Pareto's law of elite incomes Zipf's law of word frequencies Lotka's law of scientific publications Kleiber's law of metabolic rates the Clausewitz Dupuy law of combat friction Moore's law of computing costs the Wright Henderson cost law Weibull's law of electronics failures the Flynn Effect in IQ scores Benford's law of digit frequencies Farr's law of epidemics Hubbell's neutral theory of biodiversity Rogers law of innovation classes Wilson's law of island biogeography Smeed's law of traffic fatalities The general law behind all these particular laws and countless others is the decline effect As a system ages or grows in size the rules of probability subtly change Entropy increases rare items become rarer and average performance measures decline The human meaning of a decline may be positive decreasing costs falling epidemic mortality or negative lower customer loyalty decreasing efficiency but the mathematical pattern is always the same The implications are enormous as these examples show All epidemic diseases decline in infectiousness and in lethality HIV AIDS went from a highly infectious 95 percent fatal disease to a survivable condition with a latency of decades COVID 19 went from a death rate of 7 percent in early 2020 to under 2 percent in 2022 Hereditary dynasties around the world declined smoothly in lifespan from hundreds of years to tens of years When democracies replaced monarchies the decline in spans of party control continued **War from the Top** Alan F. Wilt, 1990-08-22 Wilt writes well and offers many sound perceptions Choice a stimulating book a timely warning against overindulgence in hindsight in evaluating the great issues of the war Parameters a significant new study a clearly written excellent book Airpower Journal an impressive work of scholarship British Politics Group Newsletter Wilt's comparative approach permits us fresh perspectives on both sides of the war Moreover Wilt has chosen to compare two of the major rival belligerents at the most stimulating and interesting level at which such comparison might be made the level of the summit of decision making with the magnetic figures of Hitler and Churchill playing major roles in his narrative and analysis Russell F Weigley This is a masterful treatment of a complex

subject and a must read book for anyone writing about the Second World War The Historian      **The Oxford History of World War II** Richard Overy, 2023-02-07 Histories you can trust World War Two was the most devastating conflict in recorded human history It was both global in extent and total in character It has understandably left a long and dark shadow across the decades Yet it is three generations since hostilities formally ended in 1945 and the conflict is now a lived memory for only a few And this growing distance in time has allowed historians to think differently about how to describe it how to explain its course and what subjects to focus on when considering the wartime experience For instance as World War Two recedes ever further into the past even a question as apparently basic as when it began and ended becomes less certain Was it 1939 when the war in Europe began Or the summer of 1941 with the beginning of Hitler's war against the Soviet Union Or did it become truly global only when the Japanese brought the USA into the war at the end of 1941 And what of the long conflict in East Asia beginning with the Japanese aggression in China in the early 1930s and only ending with the triumph of the Chinese Communists in 1949 In The Oxford History of World War Two a team of leading historians re-assesses the conflict for a new generation exploring the course of the war not just in terms of the Allied response but also from the viewpoint of the Axis aggressor states Under Richard Overy's expert editorial guidance the contributions take us from the genesis of war through the action in the major theatres of conflict by land sea and air to assessments of fighting power and military and technical innovation the economics of total war the culture and propaganda of war and the experience of war and genocide for both combatants and civilians concluding with an account of the transition from World War to Cold War in the late 1940s Together they provide a stimulating and thought provoking new interpretation of one of the most terrible and fascinating episodes in world history

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web in this article we will discuss polyatomic ions the prefix poly means many so a polyatomic ion is an ion that contains more than one atom this differentiates polyatomic ions from monatomic ions which contain only one atom examples of monatomic ions include  $\text{Na}$   $\text{Fe}^{3+}$   $\text{Cl}^{-}$  and many many others

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web polyatomic ions have defined formulas names and charges that cannot be modified in any way table 3 4 1 3 4 1 lists the ion names and ion formulas of the most common polyatomic ions for example  $\text{NO}_3^{-}$  is the nitrate ion it has one nitrogen atom and three oxygen atoms and an overall 1 charge

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