



# Polikarpovs I16 Fighter

**Dariusz Karnas**



## **Polikarpovs I16 Fighter:**

**Polikarpov's I-16 Fighter** Yefim Gordon, Keith Dexter, 2001 Aviation historians often dismiss the Polyikarpov I 16 because it did not fare well against its more modern adversaries in WWII It was often referred to in the West by the disparaging nickname of Rata the Russian word for rat Nikolay Polyikarpov s I 16 was nevertheless an outstanding fighter in its day among other things because it was the world s first monoplane fighter with a retractable undercarriage Its capabilities were demonstrated effectively during the Spanish Civil War and it was still in front line service when the German armed forces fell on the Soviet Union in 1941 This book details every variant of this diminutive fighter including development aircraft and unbuilt projects An account is also given of Polyikarpov s early monoplane fighters that presaged the I 16 and of the later designs that evolved from it Details are given of all surviving examples including the six aircraft that were restored to airworthy condition in Russia in the 1990s *Polikarpov I-15, I-16 and I-153 Aces* Mikhail Maslov, 2013-02-20 From the heat of Spain to the frozen wastelands of Finland this book reveals the combat stories of the pilots who flew the Polikarpov fighters from 1936 until the end of World War II The I 15 I 16 and I 153 fighters were the world s first mass produced fighters Some 17 000 Polikarpovs had been manufactured by the time production ceased in 1941 They served with the Republicans in the Spain the Chinese against Japan in 1937 38 and the Soviets against both Japan in the Nomonhan Incident and Finland during the Winter War By 1941 more than 20 Soviet pilots had made ace in Polikarpovs and many more attained that status during the first months of the German invasion Though thoroughly outclassed this book shows how the Polikarpov was the backbone of the Soviet air force during the early months of the war in the east and continued to serve as training aircraft and as frontline fighters some right through to 1945 World War II Fighter Planes Spotter's Guide Tony Holmes, 2021-02-04 A compact but comprehensive guide to the iconic fighter planes that fought during World War II which features full colour profile artwork throughout World War II saw pilots from around the world battling in the skies over Europe Asia and Africa with victory resting upon their nerve skill and the capabilities of some of history s most iconic aircraft In the chaos of battle it was vital that they could quickly identify friend from foe But do you know your Hurricane from your Bf 109 or what the legendary P 51 Mustang looks like Do you know the wingspan of the A6M Zero sen or how fast it could fly World War II Fighter Planes Spotter s Guide answers all of these questions and more providing essential information on over 90 legendary aircraft from the celebrated Spitfire to the jet powered Me 262 Featuring full colour artwork to aid recognition as well as all the details you need to assess their performance this is the perfect pocket guide to the Allied and Axis fighters of World War II *World War II Soviet Fighter Aircraft* Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 33 Chapters Polikarpov I 16 Mikoyan Gurevich MiG 3 Yakovlev Yak 9 Yakovlev Yak 1 Petlyakov Pe 3 Lavochkin La 7 Yakovlev Yak 3 Mikoyan Gurevich MiG 1 Polikarpov I 15 Lavochkin La 5 Lavochkin Gorbunov Gudkov LaGG 3 Polikarpov I 185 Lavochkin Gorbunov Gudkov

LaGG 1 Excerpt The Polikarpov I 16 was a Soviet fighter aircraft of revolutionary design it was the world's first cantilever winged monoplane fighter with retractable landing gear The I 16 was introduced in the mid 1930s and formed the backbone of the Soviet Air Force at the beginning of World War II The diminutive fighter nicknamed Ishak donkey by Soviet pilots prominently featured in the Second Sino Japanese War the Battle of Khalkhin Gol and the Spanish Civil War where it was called the Rata rat by the Nationalists or Mosca fly by the Republicans The Finnish nickname for I 16 was Siipiorava Flying Squirrel While working on the Polikarpov I 15 biplane Nikolai Nikolaevich Polikarpov began designing an advanced monoplane fighter It featured cutting edge innovations such as retractable landing gear and a fully enclosed cockpit and was optimized for speed with a short stubby fuselage similar to Gee Bee R 1 and a Wright Cyclone radial engine in a NACA cowling The aircraft was small light and simple to build Full scale work on the TsKB 12 prototype began in June 1933 and the aircraft was accepted into production on 22 November 1933 a month before it took to the air The TsKB 12 was of mixed construction using a wooden monocoque fuselage and wings based around a KhMA chrome molybdenum steel alloy wing spar dural ribs and D1 aluminum alloy skinning on the center and leading edges with the remaining portions of the wings fabric covered Another modern feature were the ailerons which ran almost the entire trailing edge of the wing

**Day Fighter Aces of the Luftwaffe** Jeremy Dixon, 2023-09-30 Dixon's work should be a must read to the aviation historian who specializes in the Luftwaffe or the early European air war Taken in small digestible portions the reader will come away with a much deeper understanding of these aviators The Journal of the Air Force Historical Foundation The German fighter pilots of the Second World War are among the undoubted heroes of the conflict their reputation for flying skill single minded determination and solitary courage hasn't diminished or been clouded by controversy over the years Their daring and commitment often displayed when towards the end of the war they were fighting against the odds matches that of any of the other air forces they fought against This detailed highly illustrated reference book which covers the exploits of the most famous and successful individuals among them shows just how effective and undaunted they were All the Luftwaffe day fighter pilots who flew single seater aircraft and won the Knight's Cross during the war are featured The entries give information about their early lives and pre war careers and record how many aircraft they shot down the type of aircraft involved and where and when the combat took place Included are accounts of particular actions which led to the award of the Knight's Cross and the fate of these remarkable pilots later in the war and in the post war world is described too Jeremy Dixon's book will be fascinating reading and reference for anyone who is interested in the aviation history of the Second World War

**Library of Congress Subject Headings** Library of Congress, 2012 [Soviet Fighters of the Second World War](#) Jason Nicholas Moore, 2021-07-30 The Red Air Force had just started to re equip with modern monoplane fighters when the Germans opened Operation Barbarossa the invasion of the Soviet Union Hundreds of fighters were destroyed in the first few days but many of these were obsolete biplanes Soviet Fighters of the Second World War details fighter development from

the dark days of Barbarossa to eventual triumph over Berlin Starting with outdated aircraft such as the Polikarpov Po 2 biplane and monoplane fighters the Soviets then settled on two main lines of development the inline engine LaGG 3 and its radial engine derivatives the La 5 and La 7 and the inline engine Yakovlev fighters which were produced in greater numbers than any other series of fighters Not only are these aircraft accurately described but experimental fighters are also dealt with In addition colour profiles illustrate these aircraft in terms of design camouflage and markings From the I 15bis biplane of the late 1930s to the superb La 7 and Yak 3 fighters of the last year of the war all Red Air Force fighters are covered in this comprehensive volume *Flying Warbirds* Cory Graff,2014-11-01 Features some of the most iconic aircraft surviving today including the North American P 51 Mustang Supermarine Spitfire Messerschmitt Bf 109 and more Do you want to get an up close look at some of the rarest airplanes in the world Are you curious about combat aircraft from World War II *Flying Warbirds* brings US British German Russian and Japanese fighting planes from the 1930s and 1940s together complete with detailed photographs to delight every aeronautics connoisseur The airplanes at the Flying Heritage Collection were created at a time when aeronautical discovery had evolved to aviation mastery Finely crafted by distinguished design bureaus with the leading technologies of the 1930s and 1940s the main emphasis of the collection includes combat aircraft from World War II In 1998 Paul G Allen began acquiring and preserving these iconic warriors and workhorses many of which are the last of their kind Allen s passion for aviation and history and his awareness of the increasing rarity of original WWII aircraft motivated him to restore these artifacts to the highest standard of authenticity Periodically one or more of the exhibits are temporarily absent to participate in an event for maintenance or for continuing restoration Experience one of the world s top airplane collections any time you like through *Flying Warbirds* Photographs include cockpit shots exterior museum shots historic photographs and breathtaking contemporary flying shots from photographers like award winning John Dibbs *Flying Warbirds* is the definitive guide to everything you want to know about this fascinating period in aeronautics and military history **AIRCRAFT OF THE SECOND WORLD WAR** Ruben Ygua,2025-08-19 AVIATION IN THE SECOND WORLD WAR Aviation played a pivotal role in the WW2 Controlling the airspace was the first step in the direction of victory for the armies on the ground or the naval forces in all the war scenarios The effective action of German aviation allowed Hitler to successfully launch the Blitzkrieg the Lightning War with its armored divisions in Poland Norway Denmark and the surprising victory in the west over Belgium Holland and France On the other hand it was the aviation that allowed the British to reject the Luftwaffe avoiding the invasion of Great Britain Later aviation enabled the Allied landing on the beaches of Normandy with its full control of air space On the other side of the world without the intervention of air forces the Japanese could not have carried out their attack on Pearl Harbor and American aviation would be responsible for the greatest naval victories in the Pacific imposing the superiority of the aircraft carriers as the main weapon maritime and displacing forever the hegemony of the old battleships Finally the planes were responsible for the launch of the two atomic bombs that forced

the Japanese to capitulate ending the war without the need for a single American soldier to land in enemy territory During the Second World War about 675 000 aircraft were used of which some 475 000 were from the Allied countries The conflict marked the end of biplane aircraft and wooden and canvas aircraft to give rise to metal monoplanes In the same way the war definitively established the heavy strategic bombers and the airplane as an essential part of the Navy the night fighter equipped with radar and the jet plane emerged which revolutionized the world aviation Aviation enabled the air transport of millions of men and goods from one continent to another through the oceans in a massive and rapid manner With the use of nuclear weapons launched from a single plane with the power to annihilate entire cities aviation has changed the global strategy ending forever with the old concepts of front and rear of war transforming conventional forces into secondary actors and replacing the conquest with absolute nuclear destruction In the 2nd World War the Axis Powers Germany Italy Japan Romania Hungary Finland Slovakia Croatia Lithuania Estonia and Bulgaria they faced the allied countries France Great Britain and the countries of the Commonwealth United States Soviet Union China Norway Holland Belgium Greece Yugoslavia Poland and several Latin American countries with little participation of their limited air forces *Polikarpov 1-16* Dariusz Karnas,2014 Scale plans in 1 72 1 48 and 1 32 of I 16 Soviet fighter Versions Type 10 Type 24 Plans in 1 72 1 48 1 32 scales *Russian Aviation and Air Power in the Twentieth Century* John Greenwood,Von Hardesty,Robin Higham,2014-06-11 In the light of new archival material the editors take a fresh look at Russian aviation in the twentieth century Presenting a comprehensive view of Russian aviation from its genesis in the late czarist period to the present era the approach is essentially chronological with a major emphasis on the evolution of military aviation The contributions are diverse with appropriate attention to civilian and institutional themes **The Jet Race and the Second World War S.** Mike Pavelec,2007-02-28 In the 1930s as nations braced for war the German military build up caught Britain and the United States off guard particularly in aviation technology The unending quest for speed resulted in the need for radical alternatives to piston engines In Germany Dr Hans von Ohain was the first to complete a flight worthy turbojet engine for aircraft It was installed in a Heinkel designed aircraft and the Germans began the jet age on August 27 1939 The Germans led the jet race throughout the war and were the first to produce jet aircraft for combat operations In England the doggedly determined Frank Whittle also developed a turbojet engine but without the support enjoyed by his German counterpart The British came second in the jet race when Whittle s engine powered the Gloster Pioneer on May 15 1941 The Whittle Gloster relationship continued and produced the only Allied combat jet aircraft during the war the Meteor which was relegated to Home Defense in Britain In America General Electric copied the Whittle designs and Bell Aircraft contracted to build the first American jet plane On October 1 1942 a lackluster performance from the Bell Airacomet ushered in the American jet age The Yanks forged ahead and had numerous engine and airframe programs in development by the end of the war But the Germans did it right and did it first while the Allies lagged throughout the war only rising to technological prominence on the ashes of the

German defeat Pavelec's analysis of the jet race uncovers all the excitement in the high stakes race to develop effective jet engines for warfare and transport

*The Axis Air Forces* Frank Joseph, 2011-11-29 This comprehensive volume tells the rarely recounted stories of the numerous foreign air forces that supported the German Luftwaffe as part of the Axis quest to dominate the European and Pacific theaters a highly compelling and often overlooked chapter of World War II history The Axis Air Forces Flying in Support of the German Luftwaffe presents an untold history of that global conflict's little known combatants who nonetheless contributed significantly to the war's outcome While most other books only attempt to address this subject in passing author Frank Joseph provides not only an extremely comprehensive account of the unsung heroes of the Axis fliers but also describes the efforts of Axis air forces such as those of the Iraqi Manchurian Thai or Chinese specific groups of wartime aviators that have never been discussed before at length This book examines the distinct but allied Axis air forces of Western Europe Eastern Europe the Middle East and Asia An extensive introduction provides coverage of Luftwaffe volunteers from Greece Lithuania Holland Denmark Norway and even the United States Detailed descriptions of the personnel themselves and the aircraft they operated are portrayed against the broader scope of combat missions field operations and military campaigns supplying invaluable historical perspective on the importance of their sorties

*Hitler's Stuka Squadrons* John Ward, 2004 Hitler's Stuka Squadrons is a book that separates fact from fantasy regarding the achievements and military career of the Ju 87 aircraft Able to deliver its bombs accurately onto a target the Stuka wreaked havoc in Poland and France against ground targets and refugee columns Hitler's Stuka Squadrons charts the Ju 87's career in 1939-40 when German aerial superiority ensured aircraft losses were low However against Spitfires and Hurricanes in the Battle of Britain in 1940 the Stuka was shot out of the skies The campaign in Russia saw the re-establishment of the Ju 87's supremacy and would lead to a change in role to one of tank busting Hitler's Stuka Squadrons also covers the individual Stuka squadrons their campaigns tactics and pilots Illustrated with full color artworks which show the various changes in livery and design that the Ju 87 underwent during its career accompanied by a full specifications table that lists range armament performance dimensions ceiling and weights An authoritative book written by an expert on Military history First hand accounts from Stuka pilots Full colored artworks Specifications boxes

*Escape to the Sky* Donald E. Fink, 2012-10-12 It is 1936 and BEN FINDLAY a 16 year old Michigan farm boy wanders to a local airport to escape his abusive father Ben meets BRICE a crusty flight instructor and veteran pilot with the U S Army Air Corps in the 1914-1918 Great War who teaches Ben to fly in a bi wing open cockpit Stearman trainer Ben quickly masters advanced maneuvers including aerial combat tactics and is recruited to fly for Spain's Republican Air Force in that country's bloody civil war Ben slips away from home before his eighteenth birthday and after additional combat training sails for Barcelona Spain Thus begins an adventure filled odyssey that sweeps Ben from Spain to England and into the early days of World War 2 as a Spitfire pilot with Britain's Royal Air Force Following America's entry into the war Ben transfers to the U S Army Air Force and opts to fly Boeing B 17

bombers to carry the war directly to Germany Escape to the Sky ends with Bens thirtieth and final bombing raid over Regensburg Germany *I Was A P-51 Fighter Pilot in WWII* James Neel White,2003 SOME OF THE 150 STORIES IN THIS BOOK What WWII was all about How the German Luftwaffe began and ended Adolph Hitler s Nazi party and the Waffen SS 8th Air Force raids over Europe P 51 Mustang battles with Me 109 1093 s Cleveland Air Races Wright Brother s flight in 1903 WWI Bi planes in France P 40s in the Flying Tigers D Day and P 47 Thunderbolts Winter War in Finland Barbarossa and airplane battles Zeros in Southeast Asia P 39 Airacobras fight for Russia War Booty in WWII Hitler robs art treasures How P 51 Mustangs stopped the Luftwaffe How the Nazi Gestapo operated The author s personal observations of WWII This book is dedicated to Orville and Wilbur Wright who discovered flight in 1903 You may purchase this book ISBN 0 595 28235 0 from [www.iuniverse.com](http://www.iuniverse.com)

**Aces of the Legion Condor** Robert Forsyth,2012-01-20 For Germany the Spanish Civil War proved a perfect testing ground for new technologies and tactics During the war some 19 000 German volunteers formed an aviation group called the Legion Condor in support of the fascists Originally flying He 51s they were soon upgraded to 109s These fighters proved dominant in the Spanish skies and many members of the legion scored five or more kills during the fighting

**Death in the Hills** Charles Alan Green,2023-06-29 1937 dawned over the golden sun kissed lands of Spain upon a divided country and a vicious and bloody Civil War The war had originally begun as a simple military coup back in mid July of the previous year At first it looked as though it would carry the day but due to the early up rising in the Spanish protectorate of Morocco the timing of the revolt on the mainland was thrown into disarray and due to this certain areas didn t commence their planned revolts at the designated time In particular the major cities of Barcelona and Madrid were both critically effected by the timing of these events and the whole of the 18th July was spent in inactivity It was this delay to the originally planned timetable that enabled the republican government but more importantly especially in Barcelona the unions and other forces on the left to organise some sort of resistance It was this fact which meant that they were able to defeat the rebellion in these and several other vital towns and cities By the end of the 20th July after the first two days of the rebellion and bitter fighting throughout the length and breadth of the country the battle lines had been drawn and Spain was a nation split into two basic zones The areas that remained loyal under the control of the government and the rest of Spain which was now under the command of the rebel s or nationalist s as they were to become known

**The Eastern Front Air War, 1941-1945** Anthony Tucker-Jones,2020-01-31 This lavishly illustrated WWII history examines the bitter aerial combat of the Eastern Front through rare wartime photographs and informative text Though the air war was a major aspect of the Eastern Front conflict it has long been neglected by historians Anthony Tucker Jones s photographic history offers a vividly detailed introduction to the subject With more than 150 archival images most of which have never been published before this volume examines Stalin s Red Air Force and Hitlers Luftwaffe their equipment and the role they played in supporting the war on the ground Just before Hitler s invasion of the Soviet Union Stalin had decimated the leadership of the Red Air Force in a series



of purges Thousands of Russian fighter aircraft were swiftly destroyed in the German Blitzkrieg But a remarkable recovery followed as the Red Air Force turned the tide against the ravages of the Luftwaffe to wrestle back air superiority by 1944

*Photographs of Military History* Edwin Dyer, 2020-01-19 A collection of 53 photographs from World War 1 through the post World War 2 era in which each photograph is provided with an in depth caption detailing what is seen in the image Within the pages are five sections aircraft artillery people tanks and other Assembled in each section are selections of photographs with every photograph described in 1 3 pages to include concise information on uniforms insignia unit data weapon descriptions and other historical information

## The Enigmatic Realm of **Polikarpovs I16 Fighter**: Unleashing the Language is Inner Magic

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