

747

Joe Sutter, Jay Spenser

Boeing 747 Lance Cole,2021-11-30 Boeing's 747 'heavy' has achieved a fifty-year reign of the airways, but now airlines are retiring their fleets as a different type of long-haul airliner emerges. Yet the ultimate development of the 747, the -800 model, will ply the airways for many years to come. Even as twin-engine airliners increasingly dominate long-haul operations and the story of the four-engine Airbus A380 slows, the world is still a different place thanks to the great gamble that Boeing took with its 747. From early, difficult days designing and proving the world's biggest-ever airliner, the 747 has grown into a 400-ton leviathan capable of encircling the world. Boeing took a massive billion-dollar gamble and won. Taking its maiden flight in February 1969, designing and building the 747 was a huge challenge and involved new fields of aerospace technology. Multiple fail-safe systems were designed, and problems developing the engines put the whole programme at risk. Yet the issues were solved and the 747 flew like a dream said pilots – belying its size and sheer scale. With its distinctive hump and an extended upper-deck allied to airframe, avionics and engine developments, 747 became both a blue-riband airliner and, a mass-economy class travel device. Fitted with ultra-efficient Rolls-Royce engines, 747s became long-haul champions all over the world, notably on Pacific routes. across the Atlantic in January 1970, 747 became the must-have, four-engine, long haul airframe. Japan Airlines, for example, operated over sixty 747s in the world's biggest 747 fleet. By the renowned aviation author Lance Cole, this book provides a detailed yet engaging commentary on the design engineering and operating life and times of civil aviation's greatest sub-sonic achievement.

Boeing 747: A History Martin W. Bowman,2014-06-10 A comprehensive history of the aircraft that transformed commercial aviation. Includes photos. A presence in our skies for over half a century, the iconic Boeing 747 has transported hundreds of thousands of passengers across the world. From its introduction with Pan American Airlines in 1970, it has persevered as one of the forerunners of commercial flight. Often labeled the “Queen of the Skies,” this is an aircraft revered by passengers and aircrew alike. The first wide-body airliner ever produced, it has set new standards in air travel and opened up the air routes of the world to vast numbers of people who might otherwise have been unable to afford international air travel. This book focuses not only on the 747, but also its many variants, including the YAL-1A, which Boeing developed for the US Air Force, and the Evergreen 747 Supertanker, a 747-200, modified as an aerial application for fire-fighting. Across its types, the 747 carries around half the world's air freight. Accordingly, freight variants feature here too, including the 747-8.The sheer size of the workload carried out by this craft is astounding. From the glamorous 1970s, an era of rapid expansion that saw an unprecedented boom in the tourist trade, to the various environmental and economical imperatives that impact upon modern flight, this work shows how the Boeing 747 has been developed in accordance with the changing demands of the ages.

Jumbo Chris Gall,2020-08-04 For the 50th anniversary of the Boeing 747's first commercial flight, a picture book about the development of the iconic passenger plane and how it changed the history of air travel. In 1968, the biggest passenger jet the world had ever seen premiered in Everett, Washington. The giant plane was called the Boeing 747, but reporters named it “the Jumbo jet.” There was only one problem. It couldn't fly. Yet. Jumbo details the story of the world's first wide body passenger jet, which could hold more people than any other plane at the time and played a pivotal role in allowing middle class families to afford overseas travel. Author and illustrator Chris Gall, himself a licensed pilot, shows how an innovative design, hard work by countless people, and ground-breaking engineering put the Jumbo jet in the air. On January 22, 1970, the Boeing 747 made it's first transatlantic flight, taking passengers from New York to Paris in seven hours.

747 Joe Sutter,Jay Spenser,2010-08-03 747 is the thrilling story behind the Queen of the Skies—the Boeing 747—as told by Joe Sutter, one of the most celebrated engineers of the twentieth century, who spearheaded its design and construction. Sutter's vivid narrative takes us back to a time when American technology was cutting-edge and jet travel was still glamorous and new. With wit and warmth, he gives an insider's sense of the larger than life-size personalities—and the tensions—in the aeronautical world.

The 747: a Tumultuous Beginning Ronald Marasco,2015-01-22 The introduction of the Boeing 747 was a momentous event in commercial aviation history—and indeed in modern world history. While the challenges faced by the engineers at Boeing and engine manufacturer Pratt and Whitney, who created the world's first jumbo jet, are well known, the story of the plane's early development doesn't end there. *The 747: A Tumultuous Beginning Flying Through Turbulence* tells the next riveting chapter in the storied plane's early history, revealing details of serious in-flight incidents and extraordinarily poor engine reliability and aircraft maintenance problems confronting the employees of Pan American World Airways and other airlines with 747 fleets. Ron Marasco was the general manager of 747 maintenance at Pan Am during those heady days when the plane first went into service. His narrative draws from sources that include: Testimony and eyewitness accounts from people who had an array of engineering, technical, and flight operations responsibilities at the time Notes from the Pan Am Historical Foundation Documents from John Borger, the Pan Am chief engineer who spearheaded the 747's development Personal notes and observations *The 747: A Tumultuous Beginning* honors the thousands of airline workers whose story has never before been told.

747: Story of the Boeing Super Jet Douglas J. Ingells,1970

The Boeing 747 Story Peter R. March,2008 The Boeing 747, more commonly known as the Jumbo Jet, is probably the most recognized of all modern airliners, and for many years it was the largest passenger airliner in service. In this study Peter March describes the Jumbo Jet's development and its service history with the world's airlines. He includes a wide range of interesting facts and figures about an aircraft that has become one of the most recognizable icons of modern air travel.

Boeing 747 Lance Cole,2021-11-30 Boeing's 747 'heavy' has achieved a fifty-year reign of the airways, but now airlines are retiring their fleets as a different type of long-haul airliner emerges. Yet the ultimate development of the 747, the -800 model, will ply the airways for many years to come. Even as twin-engine airliners increasingly dominate long-haul operations and the story of the four-engine Airbus A380 slows, the world is still a different place thanks to the great gamble that Boeing took with its 747. From early, difficult days designing and proving the world's biggest-ever airliner, the 747 has grown into a 400-ton leviathan capable of encircling the world. Boeing took a massive billion-dollar gamble and won. Taking its maiden flight in February 1969, designing and building the 747 was a huge challenge and involved new fields of aerospace technology. Multiple fail-safe systems were designed, and problems developing the engines put the whole programme at risk. Yet the issues were solved and the 747 flew like a dream said pilots - belying its size and sheer scale. With its distinctive hump and an extended upper-deck

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Wide-body Clive Irving,1993 History of the Boeing 747 jet from the first design to becoming one of the most recognizable airplanes of today.

Boeing 747-400 Robert F. Dorr,2002 This series provides the enthusiast with a first-ever look at the structure, design, systems, and operation of these high tech wonders of the air. Contains engineering drawings, tech manual excerpts, exploded views, overhaul handbooks, cockpit photos, pilot manual excerpts, factory assembly photos, and more.

Boeing 747-400 Philip Birtles,2000 When it first rolled off the assembly line in the 1960s, the Boeing 747 took on the mantle of the largest commercial airliner in the world, a position it has still to relinquish after more than 30 years. The 747-400 model is the latest and largest in Boeing's evolution of the giant. Its story is told here. Including numerous pictures, it is the latest in the popular abc series of airliner and airline books.

747 Joe Sutter,Jay Spenser,2006-05-23 747 is the thrilling story behind the Queen of the Skies -- the Boeing 747 -- as told by Joe Sutter, one of the most celebrated engineers of the twentieth century, who spearheaded its design and construction. Born in 1921 in Seattle, Sutter grew up on a hilltop overlooking the Boeing plant and flying field. It was a thrilling era of open cockpits, silk scarves, leather helmets, and goggles. After serving in World War II, Sutter joined Boeing, then a small company, eager to build airplanes. In July 1965, he was asked to lead the large Boeing team designing the new 747. Pan Am wanted a new airliner as quickly as possible. This all-new transport had to be far bigger than anything in service or even on anybody's drawing board. To make it fly, Sutter and his team would have to push far beyond the technological boundaries of the late 1960s. Could it be done? Almost everything about the 747 would be unprecedented. Its cabin would be so wide that it would need two aisles. Its horizontal tail would be bigger than the wings of most airliners ever built. Jet engines big enough to lift it off the ground didn't yet exist. Runways at the world's airports couldn't handle it, and neither could Boeing's factories. They had to erect the world's largest building just to produce it. A truly mammoth undertaking, the 747 became one of the most successful airplane models ever. Sutter's vivid narrative takes us back to a time when American technology was cutting-edge -- the 747 came on the market the same year that men first set foot on the moon -- and jet travel was still glamorous and new. With wit and warmth, he gives an insider's sense of the larger-than-life-size personalities -- and the tensions -- in the aeronautical world. Ultimately, 747 is an inspiring story of grit and glory.

Boeing 747 Hiroshi Seo,1984 For better readers, this is a history and profile of the Boeing 747 jumbo jet airplane.

Boeing 747 Classic Peter Gilchrist,2000 The Boeing 747 has been around for over 30 years but still seems every bit as big as the day it first took to the skies. It represents a quantum jump in the development of civil aircraft, one that revolutionised the way we fly today and the way we accept better prices, service and safety than could have been dreamed of in the early years of jet aircraft.The fact that the Boeing 747 was developed at all is a remarkable testament to the courage and self-belief of a small group of brilliant engineers, all of whom were willing to risk their hard-won reputations by building an aircraft that was so totally different to anything previously offered to the airlines. Its acceptance for production go-ahead was also a notable example of corporate courage -- because many problems lay ahead and there was an enormous amount at stake: had the aircraft not sold in very considerable numbers, the continuation of Boeing itself might have been at risk.Although the theoretical operating profits from a 747-sized airliner were highly seductive, they were only theoretical. Before any profits could be made at all, a huge investment package had to be put together to fund not only the most expensive airframes of all time, but also the wide-ranging changes to basic infrastructure that would be needed make their operations possible. No airline in the world, for example, had passenger steps that were capable of reaching the doors of a 747; or baggage-handling equipment that could operate on such a heroic scale; the maintenance engineers did not have a single hangar bay that could house the aircraft, or the staging needed to reach the outer limits of its structure; the capacity of toilet-servicing units all overthe world would have to be at least doubled. The arrival of the 747 on prestige routes was going to massively increase the scale of everything virtually overnight and global changes of this magnitude do not come cheaply.Most of the major airports of the world would also need a significant amount of investment to accommodate even a small number of 747s. Existing hardstanding areas, terminal buildings and pier layouts were all based on the length, wingspan and turning-circle of the then current generation of jets: in some cases even the pavement weight-bearing strength was already close to its safe limit. The anticipated gradual evolution of aircraft had generally played an important role in the planning of airport facilities, but the impending operational arrival of the 747 suddenly presented a whole new set of problems -- the burden of which would depend largely on the commercial success of the aircraft.As we know today, Boeing handled the problems brilliantly: today we accept flying and commercial aircraft as commonplace, and much of that is down to Boeing and the 747. This book looks carefully at the history of this remarkable sequence of events, the development of the 747 family and the longevity of the Classic -- per-747-400 -- versions.

Boeing 747-400 Robbie Shaw,1999-07-15 The 747-400 has been the only variant of Boeing's world famous 'Jumbo Jet' in production since 1990. Originally announced as a successor to the veteran Series -200 and -300 in May 1985, the re-engineered 747 had garnered 100+ deposits from world airlines by the time the prototype was rolled out on 26 January 1988.

Boeing 747 Jim Lucas,1988

Boeing 747-400 Peter Gilchrist,1998 As the flagship of Boeing's fleet, the 747-400 is the world's largest airliner and the only 747 variant still in production. An update of the original 747, the 400 incorporates an advanced flight deck, a slew of new engine options, an expanded upper deck, and drag-reducing winglets. In addition to guiding the reader through the 400 and its myriad options, this spectacular color history also examines the 747-400's design, production, customers, and service records. Complete coverage of proposals currently on the table for 747-500 and 747-600 series bring full circle the story of the 747's past and future.

The Airliner World Book of the Boeing 747 Mark Nicholls,2002

Boeing 747. Queen of the Skies. Owen Zupp,2019-09-24 The Boeing 747 is more than an airliner - it is the Queen of the Skies. From flights over Antarctica to carrying a spare fifth engine beneath the wing, award-winning aviation writer and airline pilot, Owen Zupp, has detailed the varied journeys of the magnificent Boeing 747.

Is Your Airport Ready for the Boeing 747 United States. Federal Aviation Administration,1968

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Table of Contents 747

1. Understanding the eBook 747
 - The Rise of Digital Reading 747
 - Advantages of eBooks Over Traditional Books
2. Identifying 747
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 747
 - User-Friendly Interface
4. Exploring eBook Recommendations from 747
 - Personalized Recommendations
 - 747 User Reviews and Ratings
 - 747 and Bestseller Lists
5. Accessing 747 Free and Paid eBooks
 - 747 Public Domain eBooks
 - 747 eBook Subscription Services
 - 747 Budget-Friendly Options
6. Navigating 747 eBook Formats
 - ePub, PDF, MOBI, and More
 - 747 Compatibility with Devices
 - 747 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 747
 - Highlighting and Note-Taking 747
 - Interactive Elements 747
8. Staying Engaged with 747
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 747
9. Balancing eBooks and Physical Books 747
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 747
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine 747
 - Setting Reading Goals 747
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 747
 - Fact-Checking eBook Content of 747
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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