

Turbojet Engines History

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Turbojet Engines History

The turbojet is an airbreathing jet engine, typically used in aircraft. It consists of a gas turbine with a propelling nozzle. The gas turbine has an air inlet, a compressor, a combustion chamber, and a turbine. The compressed air from the compressor is heated by burning fuel in the combustion chamber and then allowed to expand through the turbine. The turbine exhaust is then expanded in the propelling nozzle where it is accelerated to high speed to provide thrust. Two engineers, Frank Whittle i

Turbojet - Wikipedia

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Turbojet Engines History - isitesoftware.com

The first turbojet-powered aircraft, a Heinkel He 178, was flown in Germany in 1939. A turbojet had been devised some years earlier in England by Sir Frank Whittle, but the first flight using his engine did not take place until 1941. During the 1960s the turbofan, or fanjet, a modification of the turbojet, came into common use.

Turbojet | engineering | Britannica

In a jet engine we use the energy extracted by the turbine to turn the compressor by linking the compressor and the turbine by the central shaft. The turbine takes some energy out of the hot exhaust, but there is enough energy left over to provide thrust to the jet engine by increasing the velocity through the nozzle.

Turbojet Engines - NASA

In the case of air travel and engines, jet propulsion means that the machine itself is powered by jet fuel. While Von Ohain is considered the designer of the first operational turbojet engine, Whittle was first to register a patent for his schematics of a prototype, in 1930. Von Ohain obtained a patent for his prototype in 1936, and his jet was the first to fly in 1939.

The History and Invention of the Jet Engine

Bypass ratios between 1 and 2 are typical of the first turbofan engines introduced in the early 1960's. The more modern turbofan engines for transport aircraft have bypass ratios that usually fall between 4 and 6, and the engine employed on the Lockheed C-5A has a bypass ratio of 8.

ch10-3 - NASA History Division | NASA

In 1959 the gas generator of the J79 was developed as a stationary 10MW-class (13,000 bhp) free-turbine turboshaft engine for naval power, power generation, and industrial use, called the LM1500. Its first application was in the research hydrofoil USS Plainview.

General Electric J79 - Wikipedia

The turbofan or fanjet is a type of airbreathing jet engine that is widely used in aircraft propulsion. The word "turbofan" is a portmanteau of "turbine" and "fan": the turbo portion refers to a gas turbine engine which achieves mechanical energy from combustion, and the fan, a ducted fan that uses the mechanical energy from the gas turbine to accelerate air rearwards.

Turbofan - Wikipedia

The General Electric J85 is a small single-shaft turbojet engine. Military versions produce up to 2,950 lbf of thrust dry; afterburning variants can reach up to 5,000 lbf. The engine, depending upon additional equipment and specific model, weighs from 300 to 500 pounds. It is one of GE's most successful and longest in service military jet engines, with the civilian versions having logged over 16.5 million hours of operation. The United States Air Force plans to continue using the J85 in aircraft

General Electric J85 - Wikipedia

The Westinghouse Aviation Gas Turbine Division was established by Westinghouse Electric Corporation in 1945 to continue the development and production of its turbo-jet gas turbine engines for aircraft propulsion under contract to the US Navy Bureau of Aeronautics. The AGT Division was headquartered in Kansas City, Missouri, where it remained in operation until 1960 when Westinghouse decided to focus on industrial and electric utility gas turbines.

Westinghouse Aviation Gas Turbine Division - Wikipedia

Although the most common type, the gas turbine powered jet engine, was certainly a 20th-century invention, many of the needed advances in theory and technology leading to this invention were made well before this time. The jet engine was clearly an idea whose time had come. Frank Whittle submitted his first patent in 1930.

Timeline of jet power - Wikipedia

Pre World War II. The Whittle W.2 /700 engine flew in the Gloster E.28/39, the first British aircraft to fly with a turbojet engine, and the Gloster Meteor. In 1928, RAF College Cranwell cadet Frank Whittle formally submitted his ideas for a turbo-jet to his superiors. In October 1929, he developed his ideas further.

History of the jet engine - Wikipedia

It was Frank Whittle, a British pilot, who designed and patented the first turbo jet engine in 1930. The Whittle engine first flew successfully in May, 1941. This engine featured a multistage compressor, and a combustion chamber, a single stage turbine and a nozzle.

Engines - NASA

In 1940 the engine designer Anselm Franz developed the Jumo 004 engine with an axial-flow turbojet, as opposed to the centrifugal-flow designs of the original von Ohain engines. This engine was used to propel the Messerschmitt Me262 in 1942, the only jet fighter airplane in WWII.

The Birth of the Jet: The Engine that Shrank the ...

Unbeknownst to the NACA, however, both German and British engineers in the 1930s were designing a new more powerful aircraft engine—the turbojet. In May 1941, as construction of the AERL was just beginning, U.S. Air Command General Henry H. Arnold witnessed the first flight test of the British turbojet designed by Frank Whittle.

Early Jet Engines | Glenn Research Center | NASA

A jet engine is a type of reaction engine discharging a fast-moving jet that generates thrust by jet propulsion. While this broad definition can include rocket, water jet, and hybrid propulsion, the term jet engine typically refers to an airbreathing jet engine such as a turbojet, turbofan, ramjet, or pulse jet. In general, jet engines are internal combustion engines.

Jet engine - Wikipedia

In turbojet During the 1960s the turbofan, or fanjet, a modification of the turbojet, came into common use. Some of the incoming air is bypassed around the combustion chamber and is accelerated to the rear by a turbine-operated fan. The turbofan moves a much greater mass of air than the simple...

Turbofan | engineering | Britannica

The 800-horsepower T58 turboshaft engine powered a Sikorsky HSS-1F in the U.S.'s first turbine-powered helicopter flight. That engine, which first ran in the 1950s, was the precursor of Lynn's small engine product line. The 1950s and 1960s saw further advances.

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