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How Does A Turbojet Engine Work?

By Bill Johnson

A turbojet engine is a type of internal combustion engine often used to propel aircraft. Air is drawn into the rotating compressor via the intake and is compressed to a higher pressure before entering the combustion chamber. Fuel is mixed with the compressed air and ignited by a small flame in the eddy of a flame holder.

This combustion technique significantly raises the temperature of the gas. Hot combustion chemicals leaving the combustor expand through the turbine, where power is drawn to employ the compressor. Although this expansion process reduces both the gas temperature and pressure at exit from the turbine, both variables are for the most part still well above ambient conditions. The gas stream exiting the turbine expands to ambient pressure through the propelling nozzle, causing a high velocity jet in the exhaust plume. So if the jet velocity surpasses the aircraft flight speed it amazingly creates a forward thrust.

Under normal circumstances, the pumping action of the compressor prevents any backflow, this kindly helps the flow of the jet engine. You can compare the whole method with a four stroke cycle, but with induction, compression, ignition, expansion and exhaust taking place simultaneously. The efficiency of a jet engine is strongly dependent upon the pressure ratio (Combustor Entry Pressure/Intake Delivery Pressure) and the Turbine Inlet Temperature of the cycle.

It is also perhaps instructive to compare turbojet engines with propeller engines. Turbojet engines take a rather small mass of air and accelerate it by a large amount, whereas a propeller takes a large mass of air and accelerates it by a small amount.

At great speed the exhaust of a jet engine makes it efficient at high speeds (particularly supersonic speeds) and high altitudes.

On planes that go slower and fly a shorter range, a gas turbine-powered propeller engine, commonly known as a turboprop, is far more common and also more efficient. Especially small aircraft primarily use conventional piston engines to drive a propeller but small turboprops are getting smaller as technology improves each day.

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The turbojet mentioned above is a single spool design, where a single shaft connects the compressor to the turbine. Higher Overall Pressure Ratio designs often have two concentric shafts, this is to in essence improve the stability of the compressor during engine throttle movements.

Basically it's the outer shaft that connects the turbine engine to the high pressure compressor. The combustor together with the high pressure compressor spool forms the core or gas generator of the engine. We must not forget that the inner shaft connects the low pressure compressor to the LP Turbine to create the LP Spool. Either spools are free to operate at their optimum shaft speed.

By Bill Johnson Find More Info About Engines Here:

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How To Get High Rankings On A Major Search Engine

By Steve Pavis

If you want to have a successful Internet business, you need to have a good understanding of the surfing habits of your readers—and more specifically, how they find information on a major search engine.

Studies show that 85% of users rely on major search engine to find info. The most popular major search engine is the Google search engine. When they look for information on a major search engine, they type certain key words or phrases. You need to find the phrase that will lead them to you.

Almost half of all Internet surfers type several words when they look for information on a major search engine. They have learned that with the millions of websites listed on a major search engine, using key phrases rather than words will narrow down the search of that major search engine.

For example, someone who is researching on scrapbooking on a major search engine will probably key in "scrapbooking clubs", "scrapbooking contests" or even "free scrapbooking fonts". If you want to be on the top results of the major search engine, you need to contain these key phrases.

There are many companies that can give you a list of the most popular queries made on each major search engine. However, bear in mind that you don't want to use a key phrase that is being used by several websites, as that means you will be competing with all of them for good search engine placement.

Do a little research to find out how people will look for information related to your product, and how they would post this question on a major search engine. You should also consider a key word's common misspellings (e.g. scrap booking) as even the best major search engine will see it as a

How Does A Turbojet Engine Work?

separate topic.

You should also submit your site to more than one major search engine. Studies show that 77% use several major search engine to research.

Plus the different major search engine have unique techniques for indexing sites, so your ranking on one major search engine will be different from your ranking on another major search engine.

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