

Jet Engine Air Intakes

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Jet engine - Wikipedia

Most modern passenger and military aircraft are powered by gas turbine engines, which are also called jet engines. There are several different types of gas turbine engines, but all turbine engines have some parts in common. All turbine engines have an inlet to bring free stream air into the engine. The inlet sits upstream of the compressor and, while the inlet does no work on the flow, inlet ...

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Air Intakes the air intake of a gas turbine engine is either built into the frame itself, if the engine is mounted in the airframe. It is designed to provide a turbulence free supply of air to the first stage compressor of the engine, with the minimum energy loss occurring through the inlet.

[Components of jet engines - Wikipedia](#)

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Air enters a jet engine via the intake or inlet, which is a shaped duct connecting the streamtube (approaching the inlet) to the compressor face. A major objective is to lose as little total (or stagnation) pressure as possible in the process and to act as pre-compressor, whilst minimizing any distortion to the flow entering the compressor.

[Jet Engine Air Intake Stock Photo - Alamy](#)

Jet Engine Air Intakes A diverterless supersonic inlet is a type of jet engine air intake used by some modern combat aircraft to control air flow into their engines. It consists of a "bump" and a forward-swept inlet cowl, which work together to divert boundary layer airflow away from the aircraft's engine.

This eliminates the

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[In aircraft engine intakes. The design of some air intakes for supersonic](#)

[aircraft can be compared to that of supersonic wind tunnels, and requires](#)

[careful analysis in order to avoid unstarts. At high supersonic speeds](#)

[\(usually between Mach 2 to 3\), intakes with internal compression are](#)

[designed to have supersonic flow downstream of the air intake's capture](#)

[plane. If the mass flow across the intake's capture plane does not match the](#)

[downstream mass flow at the engine, the intake will unstart.](#)

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[Air Intakes/Compressors - Weebly](#)

All jet engines have an inlet to bring free stream air into the engine. The inlet sits upstream of the compressor and, while the inlet does no work on the flow, there are some important design features of the inlet. Because the inlet does no thermodynamic work , the total temperature through the inlet is constant.

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Air intake (inlet) — For subsonic aircraft, the inlet is a duct which is required to ensure smooth airflow into the engine despite air approaching the inlet from directions other than straight ahead. This occurs on the ground from cross winds and in flight with aircraft pitch and yaw motions.

[Diverterless supersonic inlet - Wikipedia](#)

J-10B with a diverterless air intake displayed on Airshow China 2018. A diverterless supersonic inlet (DSI) is a type of jet engine air intake used by some modern combat aircraft to control air flow into their engines. It consists of a "bump" and a forward-swept inlet cowl, which work together to divert boundary layer airflow away from the aircraft's engine.

[Intake - Wikipedia](#)

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[Inlet Performance - NASA](#)

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Fighters must be able to maneuver, sometimes violently, and this can affect airflow into the engines. Placing the air intakes underneath the fuselage, or underneath the wings helps the situation at high angles of attack, as the fuselage or wing helps deflect the airflow towards the intakes: The intake location of the F-16:

[Inlets - NASA](#)

Jet Fighter engine air intake at Imperial War Museum, Duxford, UK. Propeller of an air plane, close up. Passenger jet plane engine front view. Aircraft air intake and fan blades close up. A close up the turbofan on a jet engine on a Westjet 737 on the tarmac at YQQ. Comox The Comox Valley ...

[Concorde air intakes - heritage-concorde](#)

With the development of jet engines and the subsequent ability of aircraft to travel at supersonic speeds, it was necessary to design inlets to provide the flow required by the engine over a wide operating envelope and to provide air with a high-pressure recovery and low distortion. These designs became more complex as aircraft speeds increased to Mach 3.0 and Mach 3.2, design points for the ...

[A Quick Explanation of Combat Aircraft Air Intakes ...](#)

A ram-air intake is any intake design which uses the dynamic air pressure created by vehicle motion to increase the static air pressure inside of the intake manifold on an internal combustion engine, thus allowing a greater massflow through the engine and hence increasing engine power.

[Ram-air intake - Wikipedia](#)

All the secondary air doors are closed which means that the engine bay is isolated from the intake airflow; this causes all the intake air to flow into the engine. The ramps are now fully up, the auxiliary inlet vane (which is part of the spill door assembly) is wide open and held open aerodynamically, this allows extra airflow into the engine.

[Aero-Engines Intake: A Review and Case Study](#)

Air intake duct is designed and manufactured by airframe manufacturer and not by the engine manufacturer. Both manufacturers cooperate in testing air intakes. An aircraft will require one or more engines based on its mission and payload.

A turbojet engine is a gas turbine engine that works by compressing air with an inlet and a compressor (axial, centrifugal, or both), mixing fuel with the compressed air, burning the mixture in the combustor, and then passing the hot, high pressure air through a turbine and a nozzle. The compressor is powered by the turbine, which extracts energy from the expanding gas passing through it.