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Intakes

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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

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inlet cowl, which work together to divert boundary layer airflow away from the aircraft's engine. This eliminates the need for a splitter plate, while compressing the air to slow it down from supersonic to subsonic speeds. The DSI can be used to replace conventional methods of controlling supersonic and boundary

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Diverterless supersonic inlet - Wikipedia

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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

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from directions other than straight ahead. This occurs on the ground from cross winds and in flight with aircraft pitch and yaw motions.

Components of jet engines - Wikipedia

An inlet must operate efficiently over the entire flight envelope of the aircraft. At very low aircraft speeds, or when just sitting on the runway, free stream air

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is pulled into the engine by the compressor. In England, inlets are called intakes, which is a more accurate description of their function at low aircraft speeds.

Inlets - NASA

Clean Air. A prototype jet engine can propel itself without using any fossil fuels, potentially paving the way for carbon-neutral air

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travel. The device compresses air and ionizes it with ...

Scientists Create Jet Engine Powered by Only Electricity

The truth is a bit more complex than just the YF-23 being the 'perfect' jet in retrospect—it too had advantages and disadvantages. ...

22A's air intakes are still split off from the fuselage

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The YF-23's Air Inlet Design Was Its Most Exotic Feature ...

Aerodynamics. Diffuser (automotive), a shaped section of a car's underbody which improves the car's aerodynamic properties Part of a jet engine air intake, especially when operated at supersonic speeds; The channel between the vanes of the stator of a

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centrifugal compressor

Diffuser - Wikipedia

Intake refers to the capture area definition and attached ducting to an aircraft gas turbine engine or ramjet engine and, as such, an intake is followed by a compressor or combustion chamber. It may instead be referred to as a diffuser.

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Intake - Wikipedia

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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Inlet Performance - NASA

Cold air intake kits are a popular choice among enthusiasts who are looking to optimize engine power and performance. The process of combustion requires fuel to burn, a heat source to ignite it, and air to supply oxygen.

Cold Air Intake Kits & Ram Air Intake Kits at Summit

Download Ebook Jet Engine Air Intakes **Racing**

A crewman on an aircraft carrier stands too close to a jet engine and gets sucked inside, but miraculously lives to tell about it!

NAVY CREWMAN GETS SUCKED INTO JET ENGINE! - YouTube

A jet engine is a type of reaction engine discharging a fast-moving jet that

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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 combustion engines.

**Jet engine -
Wikipedia**

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As of version 0.18 jet engines require intake air to run, provided by air intakes. Jet engines don't consume oxidizer, so the use of liquid fuel tanks is very wasteful because they come with an full oxidizer tank adding additional mass.

Jet engine - Kerbal Space Program Wiki

An intake ramp is a rectangular, plate-like device within the air

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intake of a jet engine, designed to generate a number of shock waves to aid the inlet compression process at supersonic speeds. The ramp sits at an acute angle to deflect the intake air from the longitudinal direction.

Intake ramp - Wikipedia

The plenum and runners combine to feed air and atomized fuel to the intake ports

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in the cylinder heads. Size, shape, and volume of the plenum and runners are key components of intake design ...

How to Select the Best Intake For Your Naturally Aspirated

...

Most types of jet engine have an air intake, which provides the bulk of the gas exiting the exhaust.

There is, however, a

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penalty for picking this air up and this is known as the ram drag. Conventional rocket motors, however, do not have an air intake, the oxidizer being carried within the airframe.

Jet engine | Engineering | Fandom

The engine needs air to breathe. Fuel can't be burned without the air. A short ram intake is

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necessary if you want to be sure that there is always enough air for combustion. But hot air is not exactly what an engine needs.

Mercedes Performance Air Intake Systems | Cold Air ...

And, clearly, the most logical means of accomplishing all three of these objectives was to strap a pair of Air Force surplus jet

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engines to the roof of a prototype high-speed locomotive, creating ...

This 1960s Jet Train Is Still America's Fastest Locomotive

military aircraft. In the basic jet engine, air enters the front intake and is compressed (we will see how later). Then the air is forced into combustion chambers where fuel is sprayed into it, and the mixture of air and fuel

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is ignited. Gases that form expand rapidly and are exhausted

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