

Which side of the disc generator is equipped with the fan blades

The fan disk is one of the critical parts of any turbofan engine and serves several vital functions. The most important of these is securing the blades of the primary or bypass fan.

Safran Aero Boosters has developed expertise in the manufacture and assembly of fan disks, the components placed at the front of low-pressure compressors to which the fan blades are attached.

The disk acts as an anchoring component for the turbine blades. Since the disk is bolted or welded to the shaft, the blades can transmit to the rotor shaft the energy they extract from the exhaust gases.

What sets an advanced turbofan engine apart is that the blades and disk are manufactured as a single part--known as a "blisk." These high-tech components not only save ...

When a disk is used, blades and disk are interdependent and sometimes built as a single part, the blisk. Your image taken from the HyTEC NASA project suggests the turbine disks of this ...

As with the core compressor and turbine, some of the fan blades turn with the shaft and some blades remain stationary. The fan shaft passes through the core shaft for mechanical reasons. This type of ...

A single stage fan was developed to produce high thrust and act as a multi-bladed propeller. Fan disks are attached to a shaft that is driven by a multistage Low Pressure Turbine (LPT) to reduce ...

The disc also has, around its perimeter, provision for the attachment of the turbine blades. To limit the effect of heat conduction from the turbine blades to the disc, a flow of cooling air is passed across ...



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