

Sealing rings

Aerotech Peissenberg manufactures and supplies static and rotating sealing rings (for the engine sector). The processes used for this include: turning, drilling, grinding and coating. High-speed flame spraying is a specific type of coating. -> Special processes

DISCS

The generic term “discs” encompasses a large number of different, and always high load-bearing, components throughout the entire engine. These include the compressor and turbine discs. Machining processes such as turning, milling and broaching are used (for broaching see special process). In addition, special processes such as coating, etching and shot peening are required.

(Discs are engine components that are under the greatest loads -> high demands on surface quality (roughness, but also machining marks). Numerous shapes and surfaces that must be machined with precision in relation to each other, even over several process steps.)

DRUMS

Aerotech Peissenberg's machining expertise enables the production of drums for the high-pressure compressor and turbine sectors. Manufacturing technologies are used such as broaching or state-of-the-art turning for the blade connections and EB welding of the assemblies.

(Features drums: Ring groove turning with the latest technology, in-process measuring, high standards of quality using state-of-the-art measuring technology (best fit for ring grooves). Very complex with NDT, particularly in the interstices, with mirror and borescope).

CONES

Cones are exposed to high temperature loads due to their proximity to the combustion chamber. They are also the connection between the compressor and the turbine, which places high demands on structural mechanics. Aerotech Peissenberg uses high-tech machinery to manufacture the production of cones in various dimensions and designs.

RINGS

Ring-like structures are present throughout the entire engine and are manufactured by Aerotech Peissenberg in a wide range of designs. In addition to conventional machining processes, special processes such as coating and wire erosion are also used.

HOUSING

Aerotech Peissenberg manufactures housing parts for the whole engine. Due to the requirements for lightweight construction and various connections to the engine, the components are finished by Aerotech Peissenberg in modern 5-axis turn-mill centres.