



The TTS 800 Turbine

The TTS 800 turbine is a twin shaft turbine. It was originally designed for airliners, like two engine Turboprop LET 410.

The turbine marks out by two fundamental parts:

The gas producer and the energy section. The gas producer consists of two axial and a centrifugal compressor, a circular combustion chamber and a single-step axial turbine. An auxiliary transmission for the energy control is set up on the rear part of the compressor air inlet housing. A oil tank is a substantial component of the auxiliary transmission. The power part is attached in the front part of the gas producer. This section consists of an axial turbine, an exhaust system and a two-stage reduction transmission with a torquemeter and propeller shaft. It has a very broad number of torque volume, which is a advantage especially in the boat building. The number of torque at the output transmission amounts to max. 2,100 revolutions. The transmission exit and the exhaust withdrawal are sitting at the end of the turbine, that are with the use of yachts a large easement.

Description of construction:

Combination Compressor, including 2-Stage axial Flow Compressor, 1-Stage Centrifugal Flow Compressor

2-Stage Axial Flow Turbine including 1-Stage Gas Producer (compressor drive) turbine, 1-Stage Power (free) turbine

Annular (ring), Through flow

Name	TTS 800
Engine Type	Turbine
Model	TTS 800
Rated Power (PS / kW)	800 / 588
Length	1.658 mm
Width	590 mm
Height	650 mm
Weight	174 kg
Consumption	appr. 280 gr/PS per hour at full speed