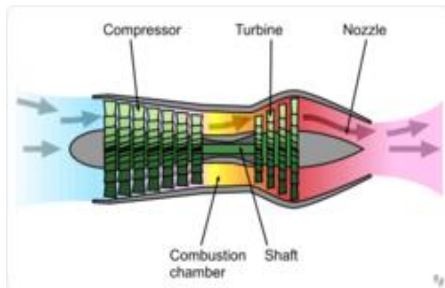




Data sheet Liberty Gasturbine Holland 2500 Turbojet.



Principle of a turbojet engine.  
 The intake, a carefully shaped duct, facing the air intake side, guides the intake air towards the compressor. The compressor compresses the intake air to many times atmospheric pressure and forces the compressed air in a combustion chamber. At this point it is hot where fuel is injected and lit. Due to combustion the volume is increased drastically and combustion gases are guided further in the engine where they pass a turbine wheel, which is mounted on the compressor shaft. This turbine wheel drives the compressor, the more fuel is injected the faster the compressor turns, the more thrust is created. After this stage, the exhaust gas is guided to a nozzle, or jet pipe.

**Technical specification of the LGH 2500 Turbojet engine;**

*Type; Single shaft axial-flow turbojet*

- Intake; annular intake casing manufactured as a cast shell. Fixed inlet guide vanes
- Compressor; Seven stage axial flow, drum type rotor.
- Rotor blades; Stainless steel, pressure ratio 4,8
- Combustion chamber; annular type with 24 integral vaporisers
- Turbine; Single stage axial flow type
- Jet pipe; Outer tapered casing and central cone connected by streamlined struts.
- Engine rotation speed; 7000 - 15600 RPM
- Exhaust gas temperature; 625 C
- Fuel pressure 0.8 Bar
- Fuel consumption; max. 850 l/h depending on altitude/circumstances
- Oil pressure; 1.8 Bar
- Oil; Shell Turbo 500
- Power electric starter motor, 2 12 V batteries 125 Amp. required
- Engine weight; 321 kilo (dry)
- Engine length; 2.15 meter
- Engine width; 70,7 cm
- Engine performance; 10.8 kn (2425 lb/st) at full speed
- Filters oil and fuel; all part of internal accessories.
- Start-up time to idle speed; 45 seconds
- Idle speed to full speed; 15 seconds. Idle speed 7000 R.P.M. Maximum speed 15.700 R.P.M.
- Generator; 6000 Watt (Starter acts like a dyna starter, after starting sequence is completed, starter can be switched into alternator function. (Optional))



LGH 2500 Turbojet [www.libertygasturbine.nl](http://www.libertygasturbine.nl)