

TURBO JET ENGINE MTJ 30

332 mm

134 mm

2.55 kg

3,6

150 K

0,85 M

25h

100

10000 m 4000 m

98000 rpm

29 - 30 daN

1.38 (kg/da N/h)

Jet engine

Specification of turbo jet engine MTJ 30 :

Length of engineDiameter of engine

ThrustWeight

• Specific fuel consumption

• Pressure ratio for compressor

Max temperature in front of turbine

Design point rpm of shaft

Max intake mach number

Max operational heightMax starting height

Working hours

Number of starts

· Lubrication 3% combined with fuel

- Kerosene jet A1 or diesel used
- · Automatic control of engine
- Control system STM32 cortex m4 based (bare metal)
- Defining the limiters from mathematical model (Temperature in front of turbine, flameout limit for combustion chamber, max and min rpm of the enigne)
- · GUI (STM32 based with 7inch monitor)
 - Manual mode
 - Automatic mode
 - Testing subsystems
 - Parameters settings
 - Procedures settings
 - Limiters and alerts settings
 - Monitoring of engine (how many starts, how many shut down, how many hours is working and etc.)
 - Data logging
 - Telemetry function
 - Error handlers
- Only fuel pump and battery outside of the engine
- Connectors for power, communication with GUI or autopilot and connector with fuel pump
- RS232 or RS485 hardware for communication



MTJ30



