

TJ100 TURBOJET ENGINE

Small turbojet engine designed for experimental aircraft, powered gliders and UAV, UCAV systems



TJ100 applications



Main parameters – performance (ISA SL)

Thrust: take - off (max. 5 min.)	1,300 N	292 lbf
Power supply	24 V DC	
Electrical power output	750 W	
Specific fuel consumption at max. thrust	≤ 0.112 kg/N/h	≤ 1.0983 lb/lbf/hr

Dimensions and weight

Outside diameter	272 mm	10.7 in
Engine length	625 mm	24.6 in
Engine weight	19.5 kg	43.0 lb
Weight of accessories	depending on configuration	

Other data

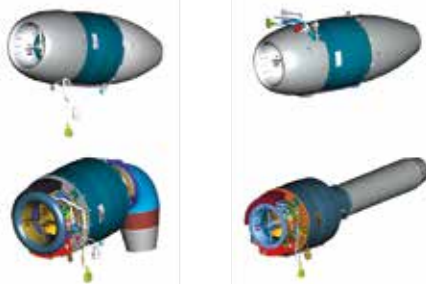
Amount of air intake	1.7 kg/sec	3.75 lb/sec
Revolutions max.	60,000 RPM	
Fuel	JET-A, JET-A1, JP4, JP8, TS-1, T2, RT	
Oil	according to MIL-L-23699 (Mobil Jet Oil II, AEROSHELL 560)	

Operating range

Max. operating altitude	10,000 m	32,800 ft
Max. starting altitude	8,000 m	26,000 ft
Flight speed range	< Mach 0.8	
Speed range for startup	< Mach 0.6	
Temperature operating range	-40°C to +50°C	-40°F to +122°F

Engine variants

possible further customer modifications



Main features

- Compact design, excellent thrust/weight ratio and low fuel consumption at its power category
- Integrated starter-generator enables reliable start-up using battery 24 V, electricity supply to board net and engine cooling after stop
- Classical conception – radial compressor and annular combustion chamber, axial turbine and fixed output nozzle
- Standard assembly: fuel-oil system, control system, ignition unit, connection cables, manual or full automatic control

Optional accessories

