

TS100 TURBOSHAFT ENGINE

Designed for light helicopters and unmanned
aerial vehicles



TS100 applications



Main features

- Small installation dimensions
- Low weight
- High static power
- Flight levels up to 9,000 m

Accessories

Standard assembly:

- Internal fuel-oil system
- Control system (FADEC)
- Ignition unit
- Interconnecting cable

Optional accessories:

- Electromagnetic stop valve
- Boost pump
- Display unit EMS
- Control panel
- Oil cooler
- Thermostatic valve and others

Technical parameters

Output shaft speed TS100ZA/TS100DA	5,978 RPM/2,158 RPM	5,978 RPM/2,158 RPM
Power supply	28 V DC	28 V DC
Electrical power output	720 W	720 W

Power

Take-off	180 kW	241 HP
Max. continuous	160 kW	214 HP
Cruise	140 kW	188 HP

Specific fuel consumption

Take-off	0.515 kg/kW/h	0.847 lb/HP/hr
Max. continuous	0.525 kg/kW/h	0.863 lb/HP/hr
Cruise	0.548 kg/kW/h	0.901 lb/HP/hr

Dimensions and weight

Height x width - without exhaust	398 x 330 mm	15.67 x 13.00 in
Length TS100ZA/TS100DA	829 mm/881 mm	32.64 in/34.69 in
Weight TS100ZA/TS100DA	56.7 kg/61.3 kg	125 lb/135 lb

Other parameters

Gas generator speed - 100%	56,200 RPM	56,200 RPM
Fuel	JET A, A-1, B according to DERD 2494 standard, TS-1, T2, RT according to GOST 10227-86 standard Mobil	
Oil	Jet oil II/AEROSHELL 390 according to MIL-L-23699	

Operating range - engine operation

Altitude	0 m to 9,000 m	0 ft to 29,500 ft
Ambient temperature	-50°C to ISA +30°C	-58°F to ISA +54°F

Operating range - engine start

Altitude	0 m to 6,000 m	0 ft to 19,700 ft
Ambient temperature	-30°C to ISA +30°C	-22°F to ISA +54°F