

PBS TS100 TURBOSHAFT ENGINE

Designed for light helicopters and unmanned
aerial vehicles



TURBOSHAFT ENGINE PBS TS100



Main features

- › Installation in pusher or tractor mode
- › Small installation dimensions
- › Low weight
- › Stable operation at high altitudes and temperatures
- › Excellent power-to-weight ratio
- › Digital interface for control and monitoring
- › Ability to run at cold temperatures below -30 °C without preheating

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 / SFC

Take-off	180 kW / 0.515 kg/kW/h	241 HP / 0.847 lb/HP/hr
Max. continuous	160 kW / 0.525 kg/kW/h	214 HP / 0.863 lb/HP/hr
Cruise	140 kW / 0.548 kg/kW/h	188 HP / 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	
Oil	Mobil 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



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