

PBS TJ80 TURBOJET ENGINE

Designed for missiles, target drones and UAVs



TURBOJET ENGINE PBS TJ80



Main features

- › Compact design
- › Excellent thrust-to-weight ratio
- › Low fuel consumption
- › Control system (FADEC)
- › Electric starting system
- › Integrated starter-generator
- › Possibility of ground and in-flight restart
- › Any engine position at the time of launch

Technical parameters

Max. thrust	900 N	202 lbf
Power supply	28 V DC	28 V DC
Electrical power output	750 W	750 W
Specific fuel consumption	0.123 kg/N/h	1.206 lb/lbf/hr

Dimensions and weight

Outside diameter	235 mm	9.25 in
Length	514 mm	20.24 in
Weight	12 kg	26.5 lb

Other parameters

Max. engine speed	58,000 RPM	58,000 RPM
Fuel	JET A-1 or equivalent with 3% turbine oil	
Oil	Mobil Jet Oil II / AEROSHELL 560 according to MIL-L-23699	

Operating range - engine operation

Altitude	0 m to 10,000 m	0 ft to 32,808 ft
Speed	0 to 0.9 M	0 to 0.9 M
Ambient temperature	-50 °C to +50 °C	-58 °F to +122 °F

Operating range - engine start

Altitude	0 m to 6,000 m	0 ft to 19,685 ft
Speed	0 to 0.6 M	0 to 0.6 M
Ambient temperature	-40 °C to +50 °C	-40 °F to +122 °F