

# TJ40-G1 TURBOJET ENGINE

Designed for UAV systems, such as target drones, decoy drones, or small reconnaissance drones



## TJ40-G1 possible applications



### Main features

- Compact design - all accessories integrated within the engine body (excl. fuel pump)
- Excellent thrust-to-weight ratio and low fuel consumption for its power category
- Easy and rapid kerosene starting
- Possibility of ground and in-flight restart
- Any engine position at the time of launch
- Shortened start-up sequence below 25 sec

### Standard accessories

- Fuel pump
- External electronics
- Fuel filter
- Connecting cabling
- Hose PU
- Data terminal
- Battery (4s Li-Fe - 2.5 Ah)
- CAN connector

### Main parameters

Max. thrust	395 N	88.8 lbf
Output voltage	13.7 V DC	13.7 V DC
Electrical power output	150 W	150 W
Specific fuel consumption	0.147 kg/N/h	1.44 lb/lbf/hr
Fuel consumption - idle / max. thrust	230 / 1,260 ml/min	7.77 / 42.61 fl oz/min

#### Dimensions and weight

Outside diameter	147 mm	5.79 in
Length	304 mm	11.97 in
Weight	3.3 kg	7.27 lb
Weight of accessories	200 g	0.44 lb

#### Other parameters

Max. engine speed	98,000 RPM	98,000 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	-300 m to 9,000 m	-984 ft to 29,500 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	-300 m to 4,500 m	-984 ft to 14,700 ft
Speed	0 to 0.35 M	0 to 0.35 M
Ambient temperature	-40°C to +50°C	-40°F to +122°F