

THE SPARTAN TDI-J70



The TDI-J70 turbojet engine is designed to deliver affordable military-grade performance in compact form. TDI engines are tested for reliability and survivability on airborne platforms.

Engine Specifications

Parameter	TDI-J70
Uninstalled Maximum Thrust at Sea-Level Static	125 lb _f (45 daN)
Overall Length (with minimum reference nozzle)	13.3 in (338 mm)
Nominal Engine Case Diameter	7.0 in (178 mm)
Uninstalled Engine Weight	20 lb _m (9 kg)
Maximum Operating Altitude / Mach Number	40,000 ft (12,192 m) / 0.90
Maximum Continuous Power Generation	1.5 kW
Approximate Maximum EGT	1,600 °F (871 °C)
Proven Starting Methods	Pyrotechnic, Windmill
Fuel Compatibility	JP-10, JP-8, JP-5, JET-A, JET-A1

High-Performance, Low-cost Propulsion for Military UAS and Tactical Missiles

TDI-J70 Turbojet Engine

PRODUCT FACTS

Compact and Power-Dense

- 7.0" O.D., 13" length
- Modular exhaust nozzles adaptable to any installation
- Thrust up to 125 lb_f sea-level static
- Best-in-class TSFC from state-of-the-art turbomachinery
- Integral generator delivers up to 1.5 kW of continuous power

Established 'Turn-Key' Propulsion Solutions

- Nearly 40 years of development experience with major defense primes
- 100% designed and produced in the USA
- Scalable production capacity up to 10,000 engines/year
- Fuel and explosives handling/storage and support
- Integration testing, flight test, and full lifecycle support

Simple, Robust Architecture & Subsystems

- Engine and subsystems tested for survivability on air-launched platforms
- Able to withstand high acceleration from ground-launched applications
- Reliable start and operability validated via multiple captive-carriage flight tests

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