

TRIDENT 100 TD2

Heavy fuel propulsion system

PRODUCT DESCRIPTION

The Trident 100TD2 is a heavy fuel engine designed to power UAVs. It has been deployed on the market in recent years and has already accumulated over 10,000 hours of mission time in the field.

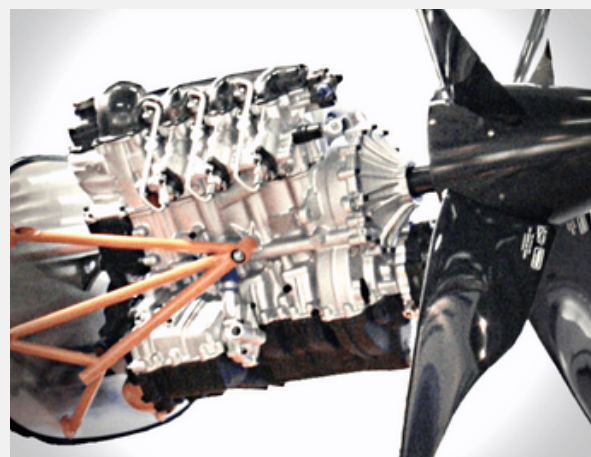
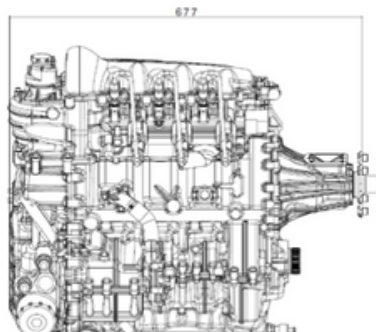
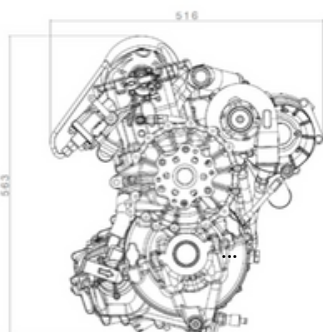
With a Torque Smoothing System (TSS) and an integrated gearbox, this 3-cylinder engine can be installed in place of the most common propulsion systems on the market (100hp range) thanks to its small frontal area and low level of vibration.

Being fully mechanical, the engine does not require any electronics for control. The purpose of the installed sensors is solely for monitoring and can be easily interfaced with the customer's avionics.

Since the design and manufacturing processes are fully integrated into Danielson Group, several options and variations are easily possible to meet customer requirements.

SERVICES

Danielson Aircraft Systems is capable of supporting customers throughout the entire product lifecycle, including engine integration, flight testing, operator training, overhauls, and support (on-site or remote).



TECHNICAL SPECIFICATION

GENERAL ARCHITECTURE

Engine type	L3
Displacement	1095cc
Gearbox ratio	1.28
Oil system	Dry sump

PERFORMANCE

Power	74,6KW
Maximum engine speed	3600rpm crank

ELECTRICAL

Electrical power	3kW or more
Electrical voltage	28V

WEIGHT

Engine weight (dry)	75kg
Engine weight	120kg

FUEL

Fuel	Heavy (diesel, JET, JET-A1, etc...)
Injection	Direct, fully mechanical
SFC	230g/kW/h @ cruise

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