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Description of the AMT Netherlands Titan gasturbine.

June 2013



The Titan has been constructed from a single radial compressor and an axial flow turbine stage. The engine owns much of its excellent performance and superb power to weight ratio to a new revolutionary design diffuser stage. This revolutionary type of diffuser also allows the relative small engine diameter.

Pricing : http://www.amtjets.com/form_pricelist.php

Specifications

All data at STP +/- 2%

Engine diameter	147 mm	/	5.8 Inch
Engine length	385 mm	/	15.1 Inch
Engine weight	3645 gram	/	8.0 Lbs
System airborne weight *	5211 gram	/	11,5 Lbs
Thrust at S.T.P. at max RPM	392 N	/	88.2 Lbf
Maximum RPM	96.000	/	96.000
Thrust at Idle RPM	13 N	/	2.9 Lbf
Pressure ratio at max RPM	3.8:1	/	3.8:1
Mass flow	660 Gr/sec	/	1.46 Lb/Sec
Max continues EGT	850 Deg C	/	1562 Deg F
Fuel consumption	1020 Gr/min	/	36 oz/min
Specific fuel consumption	43.3 gr/(Kn*sec)	/	1,53 lb/(lb*hr)
Starting method	Direct kerosene starting gasturbine, on request propane start.		

* Total weight of; Engine,ECU,pump,battery,thermosensor, valves, mounting straps.

Operating conditions

Min operation temperature *	- 25 Deg. Celcius	/	-13 Deg F
Maximum operating temperature	+ 50 Deg. Celcius	/	+122 Deg F
Maximum operating altitude	8000 Meter	/	26250 feet
Maximum operating speed	1000 Km / hour	/	620 Mile / hour

* With the use of LiPo batteries the minimum operation temperature is limited to -10 Deg Celsius.

Engine control possibilities

1 x RS232	Throttle and switch settings including special functions *		
2 x PWM between 1-2 milliseconds **	Throttle and switch settings.	(special functions * with puch button)	
2 x Analog inputs 0-5 volt DC **	Throttle and switch settings.	(special functions * with puch button)	

* Activation of prime function, igniter function, starter function, speed cool.

** Specify ECU at ordering with PWM inputs or Analog inputs.

All specifications are subject to change without notice.

S.T.P. : 15 Degrees Celsius / 59 Degrees Fahrenheit, Pressure : 1013 Mbar / 29.91 in

*** Each Titan set contains the following parts.**

- 1 x Fully tested Titan E-start gasturbine with kerosene start system (Thrust 392 Newton at STP.)
- 1 x Version 2.0 b Electronic Control Unit.
- 1 x High flow main solenoid valve for kerosene.
- 1 x High flow fuel solenoid valve for ignitor.
- 1 x Titan fuel pump.
- 1 x Rear engine mount.
- 1 x Front engine mount + EGT sensor mount.
- 1 x 4 cell 3300Mah Lithium Polymer battery pack.
- 1 x Battery pack charge cable.
- 1 x Safety clip for RPM sensor.
- 1 x Thermo sensor (K-type).
- 1 x Manual Titan E-start.
- 1 x 3 meter Festo PP3 tube.
- 1 x 2 meter Festo PP4 tube.
- 1 x 2 meter Festo PP6 tube.
- 1 x Fuel filter.
- 1 x Festo T piece for ignitor feed.
- 1 x Engine Data Terminal.
- 1 x EDT charge cable.

