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Description of the AMT Netherlands Nike gasturbine with EPV layout.

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The Nike is a "spin-off" of the AMT-NL Titan design and has been constructed from a single radial compressor and a axial flow turbine stage. The engine owns its excellent performance and superb power to weight ratio to a new diffuser stage. Since Oktober 2014 the Nike engine is available with an "EPV" layout. The EPV is an device were **ECU, Pump** and solenoide **Valves** are intergrated in a aluminium casing. The EPV will be connected to the engine with a 50 cm long cable via a multi pin military spec. connector.



Specifications

All data at STP +/- 2%

Engine diameter	201 mm	/	7,9 Inch
Engine length	524 mm	/	20,6 Inch
Engine weight	9150 gram	/	20,2 Lb
System airborne weight *	11300 gram	/	24,9 Lb
Thrust at max RPM at S.T.P.	784 N	/	176,2 Lbf
Maximum RPM	61.500	/	61.500
Thrust at Idle RPM	40 N	/	9 Lbf
Pressure ratio at max RPM	4:1	/	4:1
Mass flow	1250 Gr/sec	/	2.76 Lb/Sec
Normal EGT (internal EGT probe)	800 Deg C	/	1472 Deg F
Max EGT	875 Deg C	/	1607 Deg F
Fuel consumption	1900 Gr/min	/	67 oz/min
Specific fuel consumption	40,36 gr/(Kn*sec)	/	1,42 lb/(lb*hr)
Starting method	Direct kerosene starting system. (20-25 seconds starting time)		

* Total weight of; Engine,ECU,pump,LiPo 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 **	Thottle 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 at ordering with PWM inputs or Analog inputs for EPV layout.

All specifications are subject to change without notice. S.T.P. : 15 Degrees Celsius / 59 Degrees Fahrenheit, Pressure : 1013 Mbar / 29.91 in

More information about the Nike engine and EPV layout are available at our website. www.amtjets.com/Nike.php

