

Pulite Power



Pulite Power supplies micro/miniature gas turbine engines for a wide range of applications, including engines for land based and mobile combined heat/power generation applications; engines for drone/Unmanned Aerial Vehicles (UAV) applications; helicopter engines; engines for recreation aviation craft such as powered gliders and power parachutes, and engines for small hovercraft.

Our products have competitive advantages in performance, efficiency and lifetime. They are the fruition of many years dedicated development combined with vast knowledge and practical experience in miniature gas turbine engine design and manufacture.

At Pulite Power we commit ourselves for continuous new products development to meet the increasing needs for high performance, compact size, lightweight and multi fuel capability in future engine applications. Supported by its close links with expertise in cutting edge technology development, Pulite Power also offers R&D consultancy and precision engineering services to provide our customers with technologically advanced specific solutions. We welcome contact from business and are willing to discuss potential collaboration programs.



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THE TURBOJET ENGINE RANGE

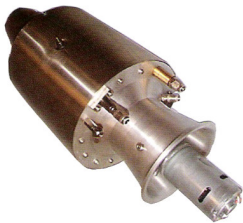
Pulite™ TJ15



Thrust:	14.5 Kg static @ 115,000 rpm
Maximum rpm:	120,000
Pressure ratio:	3.6 : 1
Fuel consumption:	410 ml/minute @ 14.5Kg
Fuel type:	Paraffin or Diesel and 2 stroke oil 2%
Exhaust temperature:	520° C
SFC:	1.45 Kg/Kg/h
Dimensions:	110 mm diameter x 210 mm length
Weight:	1.59 Kg

The Pulite™ TJ15 is a good choice for aircraft of gross weight under 50Kg.

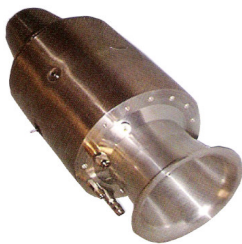
Pulite™ TJ30



Thrust:	29.5 Kg static @ 92,000 rpm
Maximum rpm:	92,000
Pressure ratio:	3.75 : 1
Fuel consumption:	690 ml/minute @ 29.5Kg
Fuel type:	Paraffin or Diesel and 2 stroke oil 2%
Exhaust temperature:	540° C
SFC:	1.19 Kg/Kg/h
Dimensions:	150 mm diameter x 365 mm length
Weight:	4.63 Kg

The Pulite™ TJ30 was designed as a lightweight power plant for drone/UAV applications. It has demonstrated vertical start/launch capability in the field.

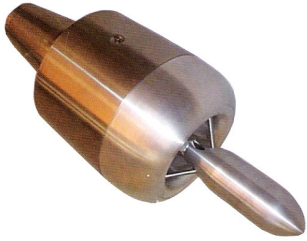
Pulite™ TJ40



Thrust:	43 Kg static @89,000 rpm
Maximum rpm:	89,000
Pressure ratio:	4:1
Fuel consumption:	1330 ml/minute @ 43Kg
Fuel type:	Paraffin or Diesel and 2 stroke oil 2%
Exhaust temperature:	640° C
SFC:	1.44 Kg/Kg/h
Dimensions:	154 mm diameter x 383 mm length
Weight:	4.72 Kg

The Pulite™ TJ40 has an increased power with thrust output over 40Kg. This superior engine has been employed in a number of high-speed drone and reconnaissance vehicle applications.

Pulite™ TJ70



Thrust:	68 Kg static @ 79,000 rpm
Maximum rpm:	79,000
Pressure ratio:	3.8 : 1
Fuel consumption:	2720 ml/minute @ 68Kg
Fuel type:	Paraffin or Diesel and 2 stroke oil 2%
Exhaust temperature:	580 °C
SFC:	1.42 Kg/Kg/h
Dimensions:	205 mm diameter x 445 mm length
Weight:	8.62 Kg

The Pulite™ TJ70 is supplied with direct kerosene starting. This super high output micro turbojet has extended our engines into high payload UAV applications. The multi fuel capability and the high power to weight ratio of this engine also makes it ideal for portable power generation applications.

Package Information

Pulite Power supplies complete engine unit which includes:

- A fully tested engine ready to install and run
- Engine control unit (ECU) and ECU main harness
- Thermocouple and connection cable
- Start pump
- Main fuel pump
- Festo filter with fuel line
- Kerosene pressure valve
- Glow plug, battery and charger kit
- Mounting straps
- RS232 cable, the ECU can be controlled via the RS232 cable connected to onboard flight system
- Owner's manual

THE TURBOPROP ENGINE RANGE

and

THE TURBOSHAFT ENGINE RANGE



The turboprop and turboshaft engines are based on our turbojet engines with an additional power turbine specifically designed to extract the shaft power. The standard configuration has a twin opposed circular outlet for the exhaust gas. The turboprop and turboshaft range provides an output power up to 100 KW. Prototype products are undergoing a full test program. The specification figures should only be used as guidelines. Further information is available upon request.

	TPS15	TPS40	TPS50	TPS100
Output Power (static):	15 KW	41 KW	52 KW	97 KW
Maximum Engine rpm:	120,000	92,000	89,000	79,000
Pressure ratio:	3.6 : 1	3.75 : 1	4.0 : 1	3.8 : 1
Fuel consumption:	410 ml/minute @ 15 KW	690 ml/minute @ 41 KW	1330 ml/minute @ 52 KW	2720 ml/minute @ 97 KW
Fuel type:	Paraffin or Diesel and 2 stroke oil 2%	Paraffin or Diesel and 2 stroke oil 2%	Paraffin or Diesel and 2 stroke oil 2%	Paraffin or Diesel and 2 stroke oil 2%
Exhaust temperature:	430 °C	450 °C	550 °C	490 °C
SFC:	1.41 Kg/KW h	0.85 Kg/KW h	1.19 Kg/KW h	1.0 Kg/KW h
Dimensions:	110 mm diameter x 400 mm length	150 mm diameter x 760 mm length	154 mm diameter x 760 mm length	205 mm diameter x 890 mm length
Weight:	5.5 Kg	11.3 Kg	11.3Kg	15.9 Kg