



The SERAT-02

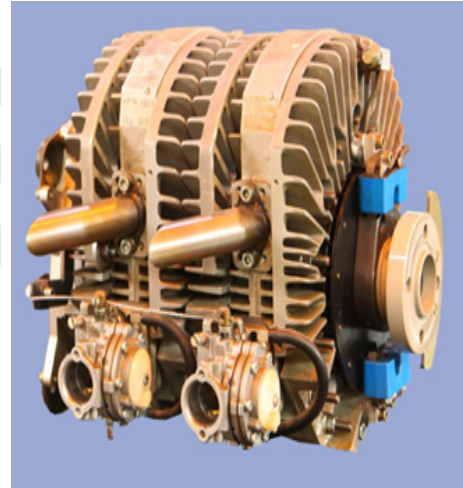


DESCRIPTION

has been designed and manufactured as a power unit for Remotely Piloted Vehicles (RPVs) and UAVs. It is a rotary engine (Wankel-Type), internal combustion, Lightweight, air-cooled and dual rotor engine. The rotors are cooled by forced air from a centrifugal fan. The engine has contactless electronic magneto ignition, run on regular grade Mogas or Avgas 100LL, and is suitable for pusher installation. Depending upon duty cycle, it has 50 hrs.TBO.

SPECIFICATIONS

Engine Type	Dual rotor Wankel type
Capacity	416 CC
Power Out Put	45KW (60 hp)
Weight	21 kg (46.3 lb)
SFC	400 gr/kw.hr



TOL00-4

DESCRIPTION

Is a single shaft turbojet engine , which consists of 3 stage axial compressor , direct annular combustion chamber and 1 stage axial turbine. This engine has a simple design ,Low cost and high thrust to weight ratio. The speed control of the engine is hydro-pneumatic. The life time of the engine is 20 hr or 50 starts.

SPECIFICATIONS

Engine Type	Mini Jet
Thrust	345 daN
CPR	3.65
Mass Flow Rate	6.1 kg/s
TIT	1200 K
Max RPM	28500
Life	20 Hr./ 50 Starts
Flight Altitude	10,000 ft ConstantThrust
Weight	55.9 kg
SFC	1.3 kg/daN.hr
Length	1130-1330 mm

