



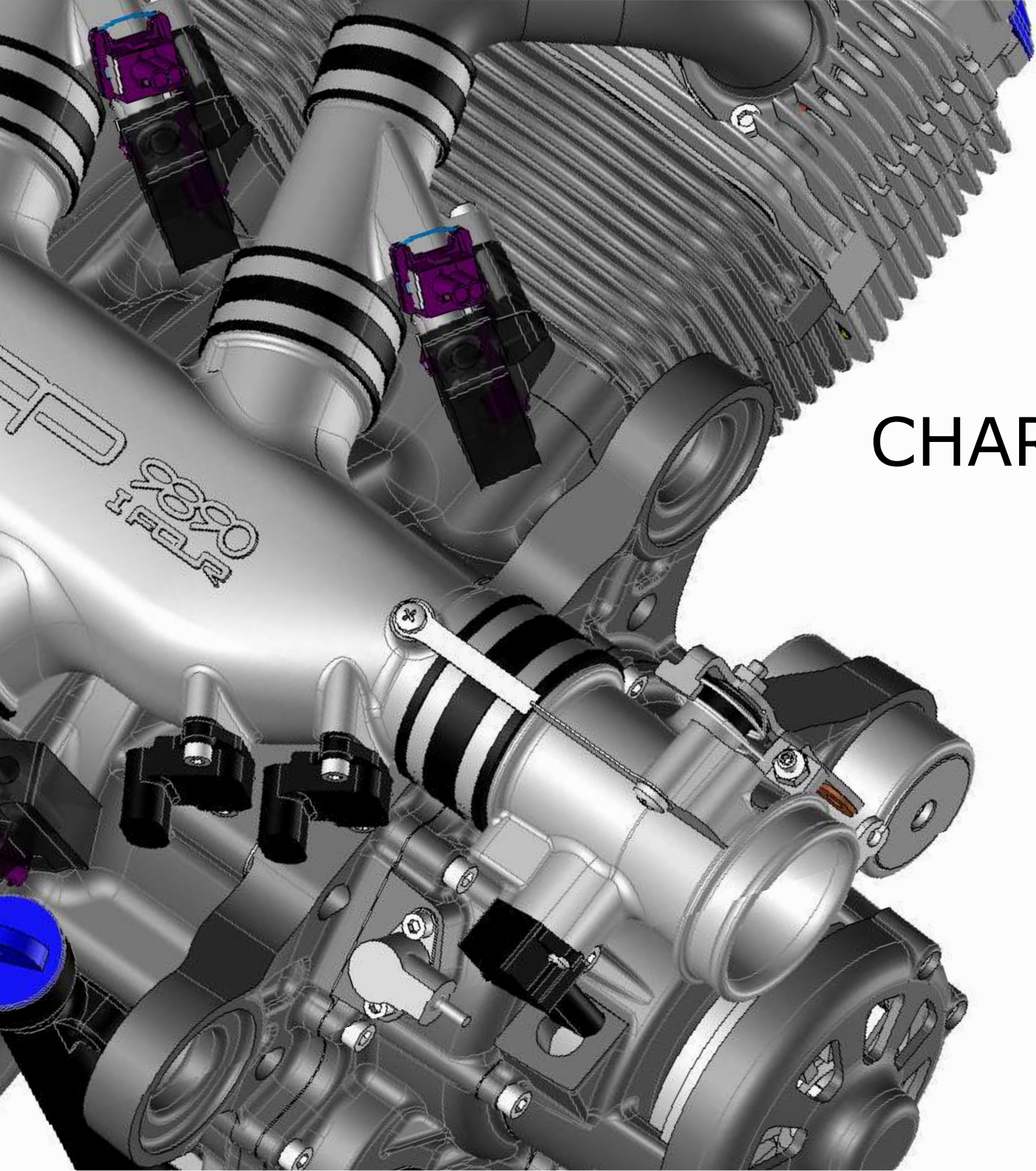
ENGINE AVIO
RAP 98-90i

HEADQUARTERS IN CASALMAGGIORE - CREMONA - ITALY



PRODUCTION AND COMMERCIALIZATION
OF AERONAUTICAL COMPONENTS AND
RACING MOTORBIKE PARTS

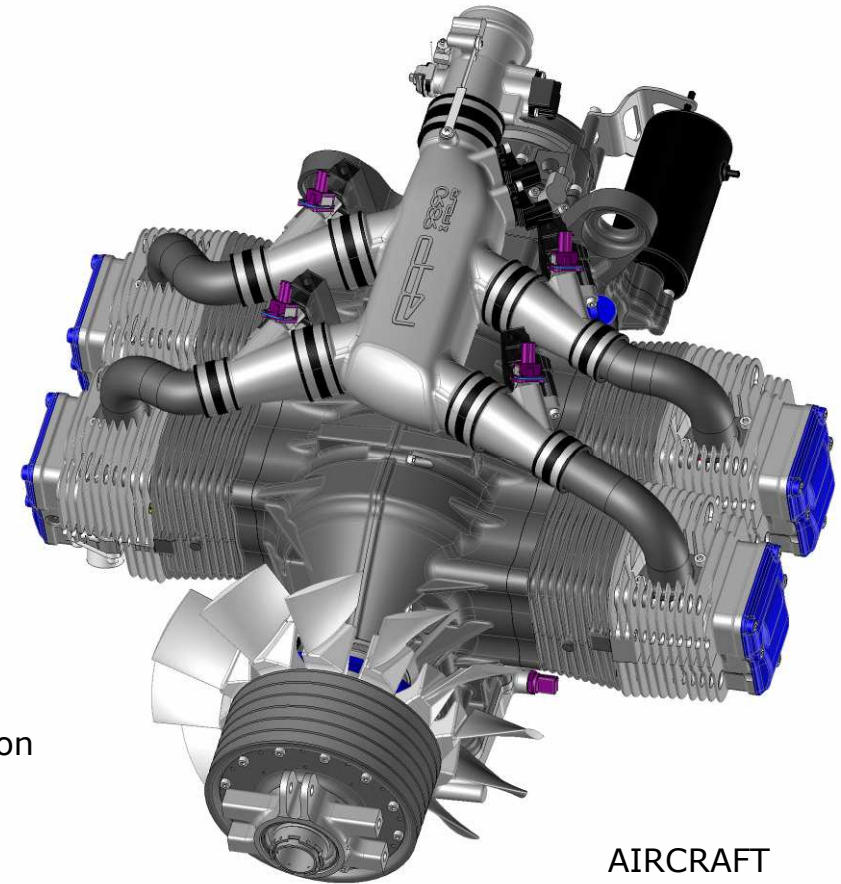




CHARACTERISTICS

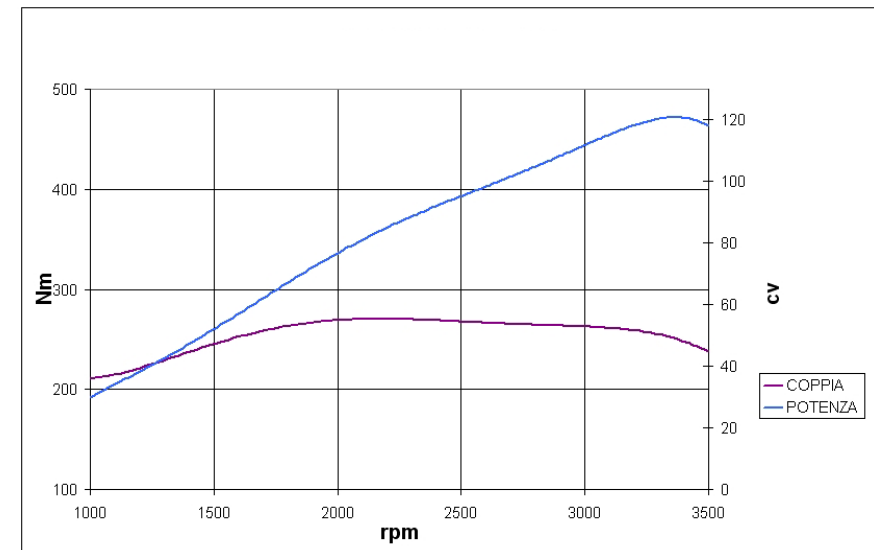
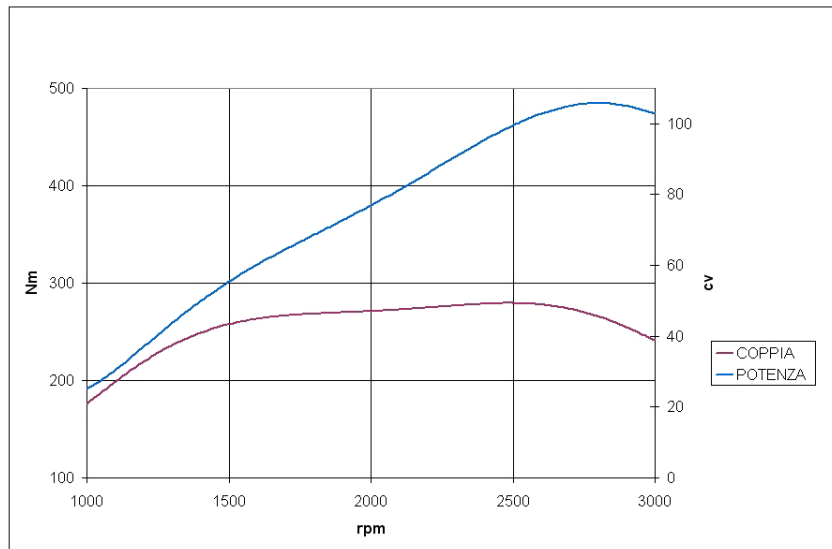
ENGINE AVIO
RAP 98-90i

- Dedicated unit ULM – LSA
- Cooling system oil-air thermoregulated (*Patented*)
- Axis-Propeller
- Right-hand rotation
- Injection and ignition electrical redundancy with variable anticipation
- Product engineering and industrialization to reduce the number of components



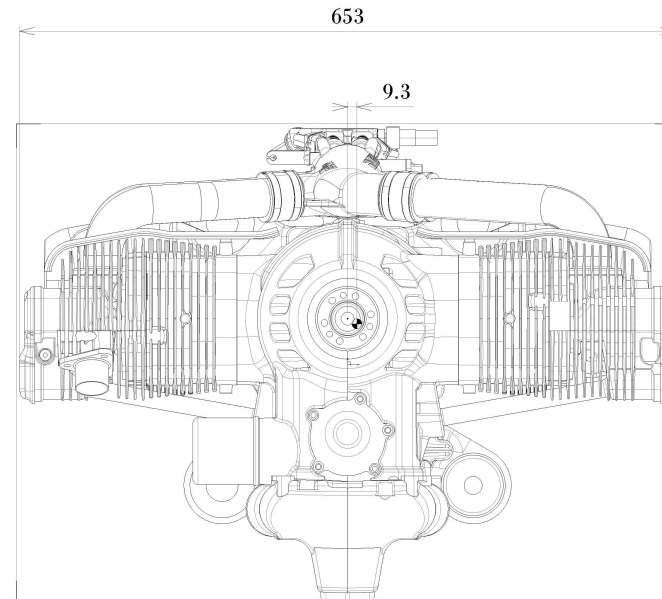
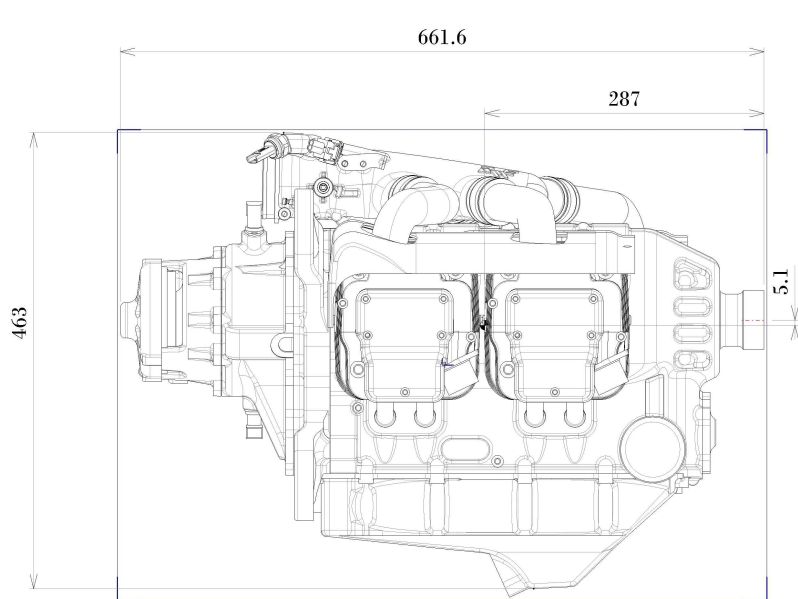
→ AIRCRAFT

Max power 105 cv a 2750 rpm
Max torque 275 Nm a 2420 rpm
Max RPM 3000 giri/min



→ ELICOPTER

Max power 120 cv a 3400 rpm
Max torque 270 Nm a 2300 rpm
Max RPM 3350 giri/min



Cylinders	In Aluminium alloy with NIKASIL coating , oil cooled
Pistons	Forged in aluminium alloy with double rings system
Head	Oil cooling system , 2 parallel valves , Heron camera
Adjusting Valves	Automatic , with hydraulic recover free play game
Camshafts	8 cams system , with different intake profile and exhaust profile

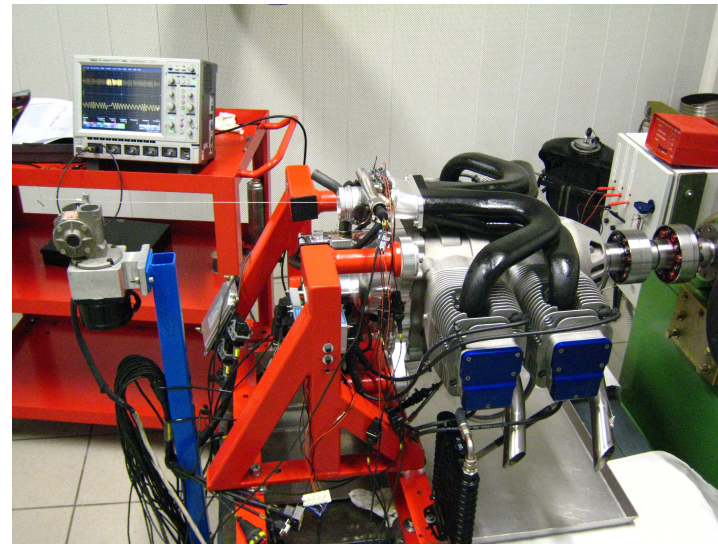
DL-1000



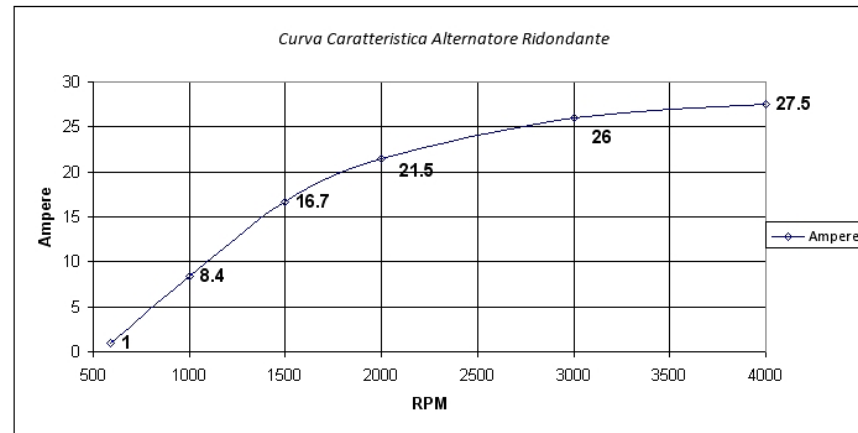
→ DYNAMOMETRIC BENCH TEST



→ MAPPING INJECTION SYSTEM



- Cooling system : oil-air thermoregulated (*Patented*)
- Lubrification: Lobes pump managed from camshaft. SAE 15W50 API SL JASO MA
 - Carter : Dry sump possibility
 - Fuel : Leadless commercial fuel ,91 octane



- Alternator : 12V- 400W
 - 1000 rpm- 18 A
 - 2000 rpm- 28 A
 - 3000 rpm- 32 A

→ Possibility to Interchange the flange The silent block support flange can be adapted to each setup cases

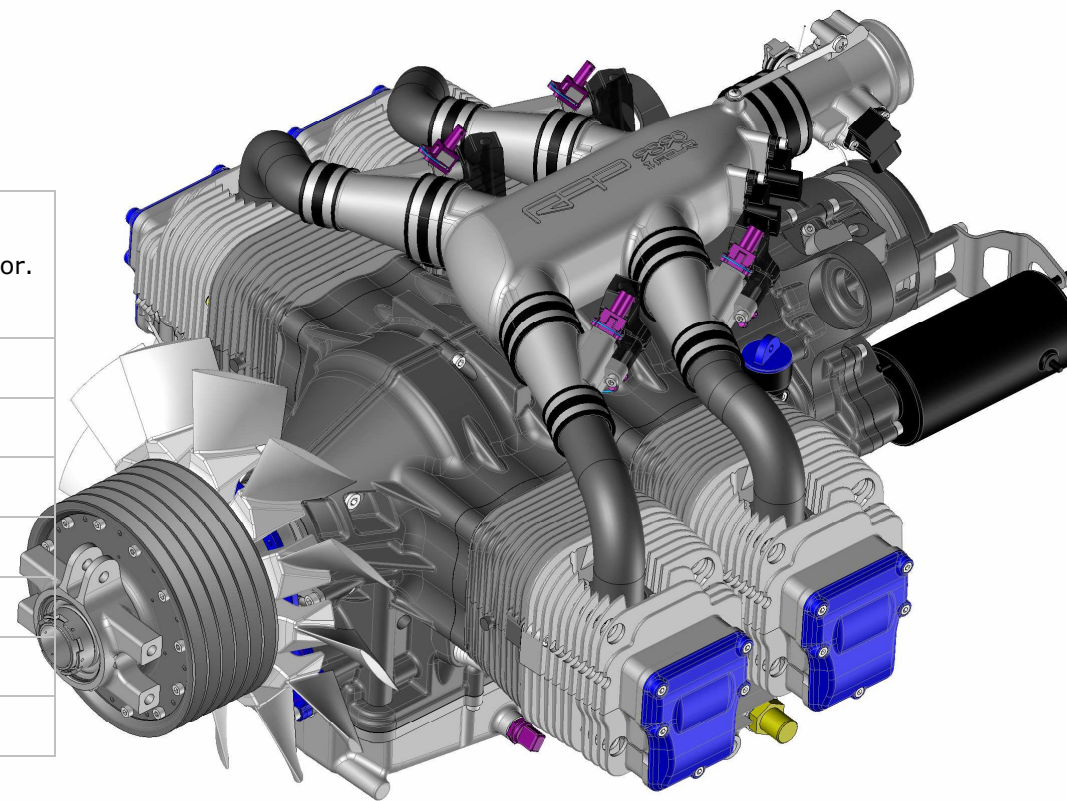
→ Alternator with redundancy possibility

→ Predisposition for GOVERNOR setup



ENDURANCE TEST WITH PROPELLER

→ Weight	72.5 kg ca
(included : alternator , starter engine , intake system , lubricant , radiator. excluded:exhaust system)	
→ Ratio Weight/Power	0,56 kg/hp
→ Consume	280 gr/kWh(*)
→ Ratio compression	11:1
→ Bore/Excursion	98 mm x 90 mm
→ Cylindrate	2715cc
→ Dimensions	660mm X 653mm X 453mm





Robby Moto Engineering s.r.l.
Via Giulio Galluzzi 14
26041 Casalmaggiore (CR)
Tel 0375-41728 Fax 0375-41491
info@robbymotoeng.com