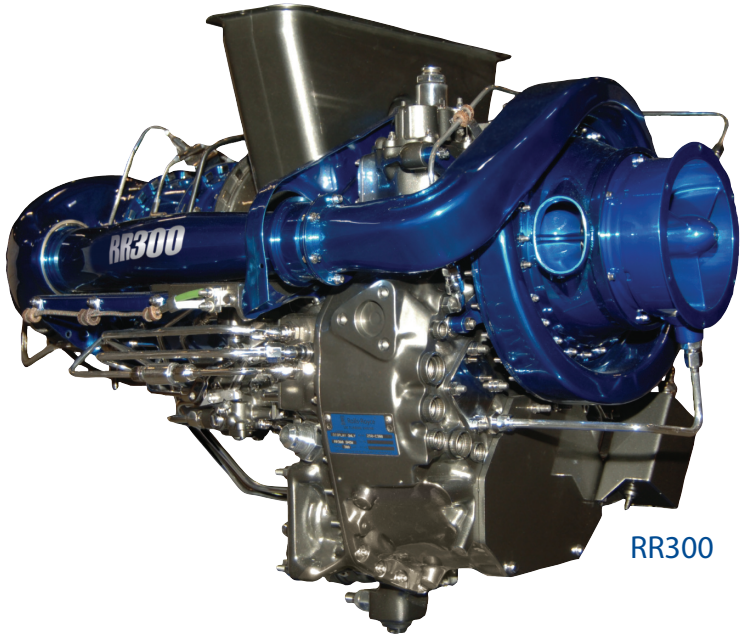
RR300

Lightweight Turbine Power for a New Era of Aircraft

The Rolls-Royce introduction of the RR300 ushers in a new era of turbine-powered flight. The RR300 combines state-of-the-art design methodology with the proven legacy of the Model 250 engine line to produce a new engine family for the small rotary and fixed wing market. The affordable RR300 makes the dream of smooth and reliable turbine-powered flight possible for a new generation of aircraft.

Designed as a replacement for piston engines in light helicopters and general aviation aircraft, the engine is optimized for performance in the 240 – 300 shp power range. The engine has true multi-fuel capability and turbine engine responsiveness, smoothness and worry-free reliability. The engine maintenance philosophy of a 2000 hour Preventative Maintenance Inspection (PMI) has been incorporated throughout the design phase to assure dependable power and predictable performance for the owner / operator.

- **Low cost turbine power for the light helicopter and general aviation market**
- **Design based on a proven heritage of over 180 million flight hours**
- **Simplified, compact installation**
- **Light-weight configuration**
- **Excellent SFC**
- **Predictable maintenance**
- **Optional "Installation Kit" which includes sensors, transducers, starter/generator and terminal blocks**
- **Factory authorized support network of overhaul, maintenance, service centers and spare parts**
- **Engine Monitoring Unit**



RR300

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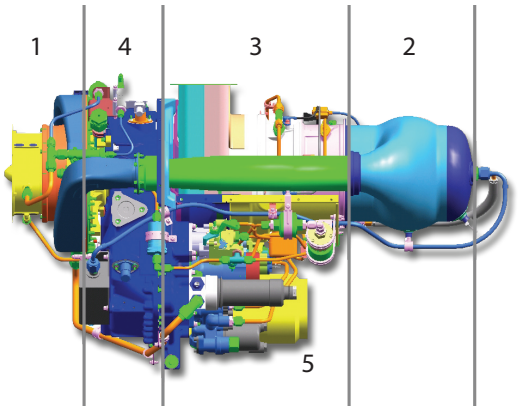
RR300 components

1. Compressor
2. Combustor
3. Turbine
4. Gearbox
5. Controls



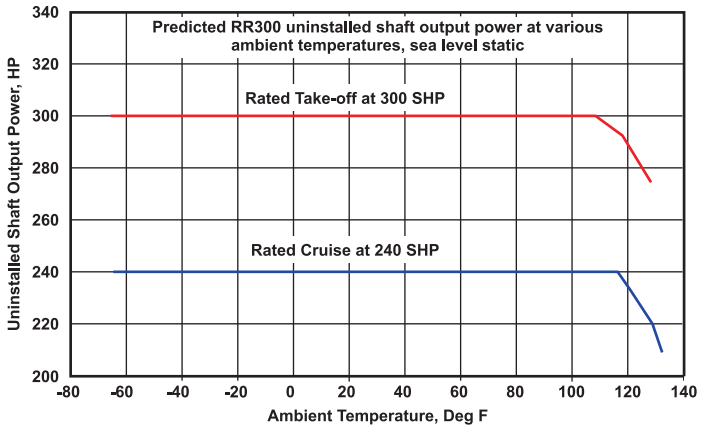
The RR300 is a two spool gas turbine engine designed as an aircraft power plant.

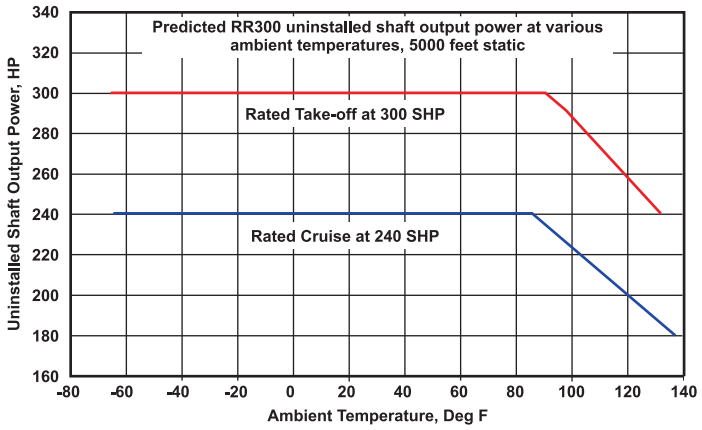
Basic engine specifications

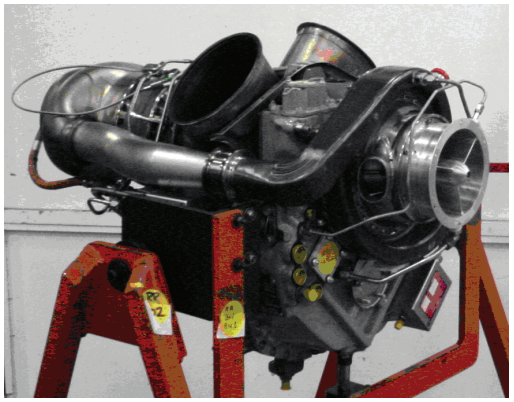
RR300	
FAA type certification	(expected 4Q 2007)
Basic engine weight*	176 lbs (excluding installation kit)
Overall length	41.0 in
Overall height	26.8 in
Overall width	25.0 in
Overhaul interval (PMI)	2,000 hours
Gas producer turbine life	2,000 hours / 3,000 cycles
Power turbine life	4,000 hours / 6,000 cycles
Compressor impeller life	10,000 hours / 15,000 cycles

* Installation kit includes : MGT thermocouple harness block, TMOP transducer, MOP transducer, oil temp sensor, starter / generator and control unit.

Power output







First RR300 engine to test.

Performance

Rating	Shaft Power (HP)	Gas Generator Speed	Output Shaft (RPM)	SFC lb/HP-hr (max)	MGT °F (°C)	Torque Limit (ft-lb)	MGT Limit (°F)
Take-off (5 min)	300	49880	6016	0.675	1277 (692)	288	1439
Maximum continuous	240	48229	6016	0.729	1178 (637)	244	1303
Normal cruise	220	47641	6016	0.755	1145 (618)	244	1303
Cruise A	180	46467	6016	0.826	1084 (584)	244	1303
Ground idle (est. max power)	25	33153	—	—	795±100 (424±38)	—	—
Flight autorotation	0	29651	—	—	761±100 (405±38)	—	—

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