



Rolls-Royce

## RR300

Lightweight turbine power for a new era of aircraft



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**The RR300 introduces state-of-the-art turbine-powered flight.**

It combines modern design methodology with the proven legacy of the Model 250 series to produce a powerplant for the small rotary market.

- Low cost turboshaft power
- Builds on over 200 million hours in service
- Simplified, compact installation
- Light-weight configuration
- Competitive fuel burn
- Factory authorised support network



Power 240 - 300shp

Pressure ratio 6.2

Width 21.5in

Length 37.6in

Weight 176lb

## simply delivers more

**The affordable** RR300 has been designed for reliable turbine-powered flight for a new generation of aircraft.

**Designed as a replacement for piston engines** in light helicopters, the engine is optimised for performance in the 240 – 300 shp power range. It 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.

**The RR300 first flew in mid-2007** in the launch aircraft for the engine, the Robinson R66 five-seat, light helicopter.

**The RR300 engine has a factory authorised support network** of overhaul, maintenance, service centres and spare parts.

**Based on the design of the hugely popular Model 250 family** of engines, the RR300 features technological advances such as a new and simplified single-stage centrifugal compressor, delivering typical sfc improvements between 7 and 9 per cent.



## 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	49989	6016	0.706	1277 (692)	288	1439
Maximum continuous	240	48333	6016	0.729	1185 (641)	244	1303
Normal cruise	220	47713	6016	0.787	1155 (624)	244	1303
Cruise A	180	46431	6016	0.856	1091 (588)	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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