

RR500 Turboprop

Ushering in a new era for General Aviation

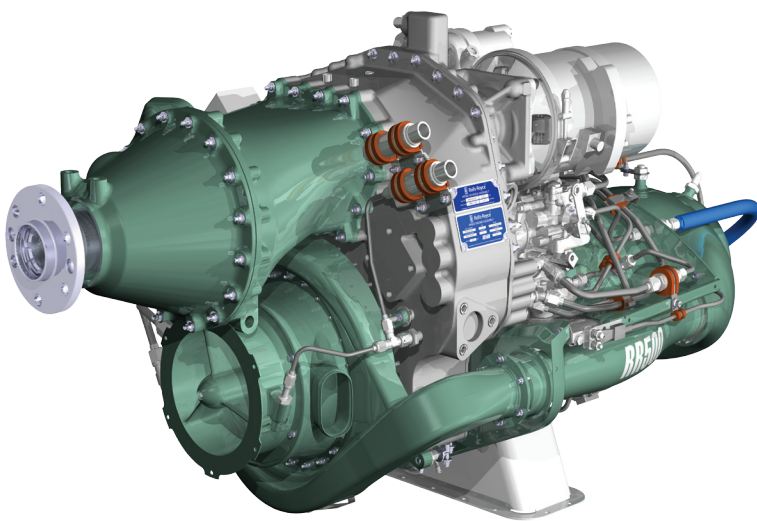
The RR500 turboprop engine is a new and exciting addition to the Rolls-Royce family of engines. The RR500TP is the premier choice for value conscious operators seeking the multi-fuel benefits and performance of turbine power.

The engine delivers greater speed, improved comfort, increased reliability and unmatched operational capability in a compact power dense design. All of this is available in a power plant offering excellent value and lower lifecycle costs.

Rolls-Royce has unmatched turboprop engine experience that assures the RR500 operator of outstanding performance and global support. Additionally, the RR500TP is well suited for STC conversions of popular general aviation aircraft to turbine power.

Key benefits of the RR500TP include:

- **Multi-fuel capability – AvGas independence**
- **Low pilot workload**
- **Extremely quiet, smooth operation**
- **10 dB or better reduction in cabin noise**
- **Excellent power-to-weight ratio**
- **Half the weight of equivalent pistons**
- **Unimpeded climb-to-altitude performance**
- **Fast, efficient flight profiles**
- **Reliable responsive power**
- **Reduced block times**
- **2000 hour shop visit interval**
- **Low or high speed propeller speed options**



RR500TP

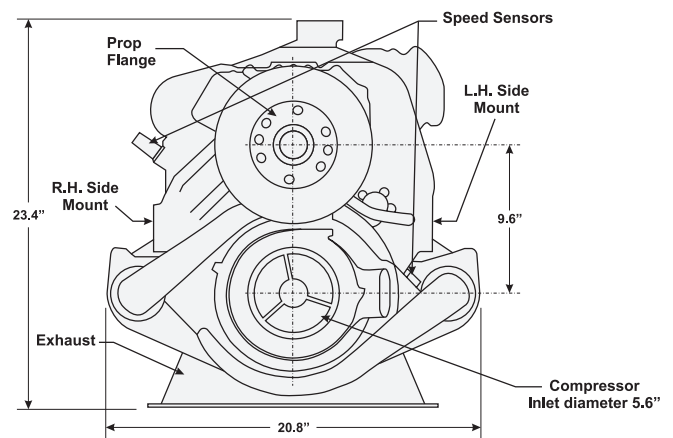
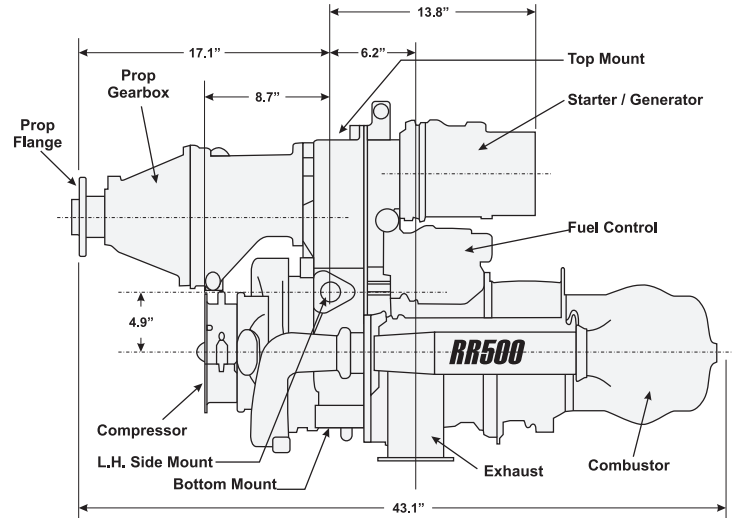


RR500TP is a cost-effective solution for a new direction in general aviation.

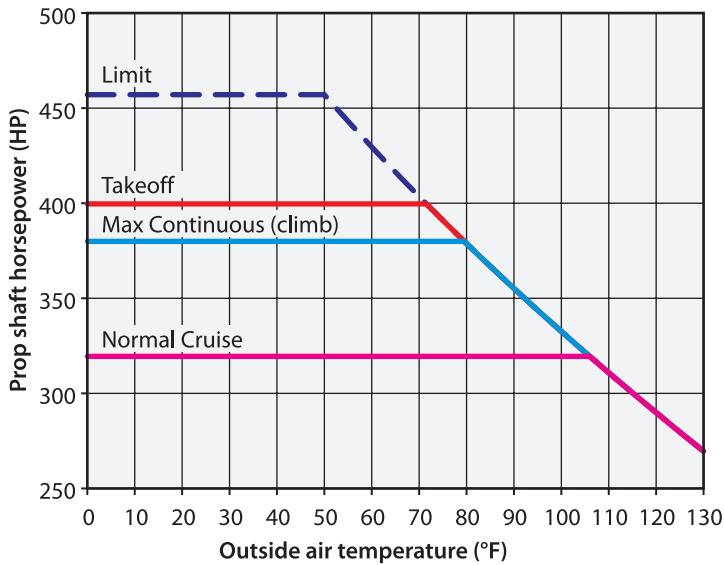
RR500TP proposed basic engine specifications

Weight	lbs	kg
Basic, un-installed	225	102
w/primary installation kit	229	104
w/kit, starter/generator, oil temp sensor	251	114
Power / Weight ratio	2.0:1	
Pressure ratio	7.5:1	
Propeller shaft speed @ 100% rpm		
Hi-speed gearbox	2400 rpm	
Lo-speed gearbox	2090 rpm	
Fuels	JP-4, JP-5, JP-8, Jet A, Jet A-1, Jet B, UK Std. 91-91, TS-1, RT, GB 6537	
Oil	AS5780 HPC	

RR500TP dimensions



RR500 Turboprop proposed rating structure SLS



RR500TP preliminary performance ratings

Flight mode	Minimum Thermodynamic Prop Shaft Power (HP)	Gal/hr (Max)
Take-off	400	-
Maximum continuous	380	-
Normal cruise	320	27.4
Economic cruise	270	23.9

RR500TP flight profile comparisons

