

Model 250-C20R

For the Starflex AS355 F1/F2 performance upgrade



Model 250-C20R





To increase performance and improve the Eurocopter AS355 operating characteristics, Eurocopter and Rolls-Royce designed a Supplemental Type Certificate (STC) to integrate the Rolls-Royce Model 250-C20R engine into F1 & F2 models of the AS355.

The Rolls-Royce Model 250-C20R engine upgrade provides operators the advantage of improved profitability and effectiveness as a result of:

- **Reduced fuel consumption**
- **A 10 to 15% increase in range**
- **A 20 to 25% increase in useful load capacity**
- **Improved high hot and high altitude performance**
- **Improved safety margins.**

Performance

Sea level static rating	Model 250 C20F	Model 250 C20R	Improvement
Takeoff (5 minute)	420 shp	450 shp	7%
Max continuous	420 shp	450 shp	7%
30 min power (OEI)	420 shp	450 shp	7%
Fuel consumption take off	0.650	0.608	-7%
Fuel consumption cruise	0.650	0.631	-3%
Max Torque limit (ft/lb) take off	384	400	4%
Max torque limit 16 sec transient	430	490	14%

Basic engine specifications

Model 250	C20R
Weight	173 lb
Power / weight ratio	2.6:1
Airflow	3.82 lb/sec
Pressure ratio	7.9:1
Design speeds @ 100% rpm	
Power output shaft	6,016 rpm
Gas producer rotor	50,970 rpm
Power turbine rotor	33,290 rpm
Fuels	JP-4, JP-5, JP-8, ASTM-1655, Type A, A1, B
Oils	MIL-PRF-7808, MIL-PRF-23699, DOD-85734

For more information regarding the Starflex AS355 F1/F2 performance upgrade please visit the Starflex web site: www.starflex.biz

Reference STCs: AS355 F1 + FAA SH7961SW-D or Transport Canada SH91- 33 or EASA IM.R.S.01203 = AS355 F1R
 AS355 F2 + FAA SH7962SW-D or Transport Canada SH91- 34 or EASA IM.R.S.01201 = AS355 F2R

The Rolls-Royce Commitment to Excellence in customer service and support is delivered through a global network of overhaul and repair facilities, the Model 250 FIRST network. These facilities provide 24 hour service, 365 days a year. We offer a complete service team who are committed to meet your needs and provide you the excellent service that comes with the Rolls-Royce name.

Trusted to Deliver Excellence



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