



Rolls-Royce

MTR390 turboshaft

Power for the Eurocopter Tiger



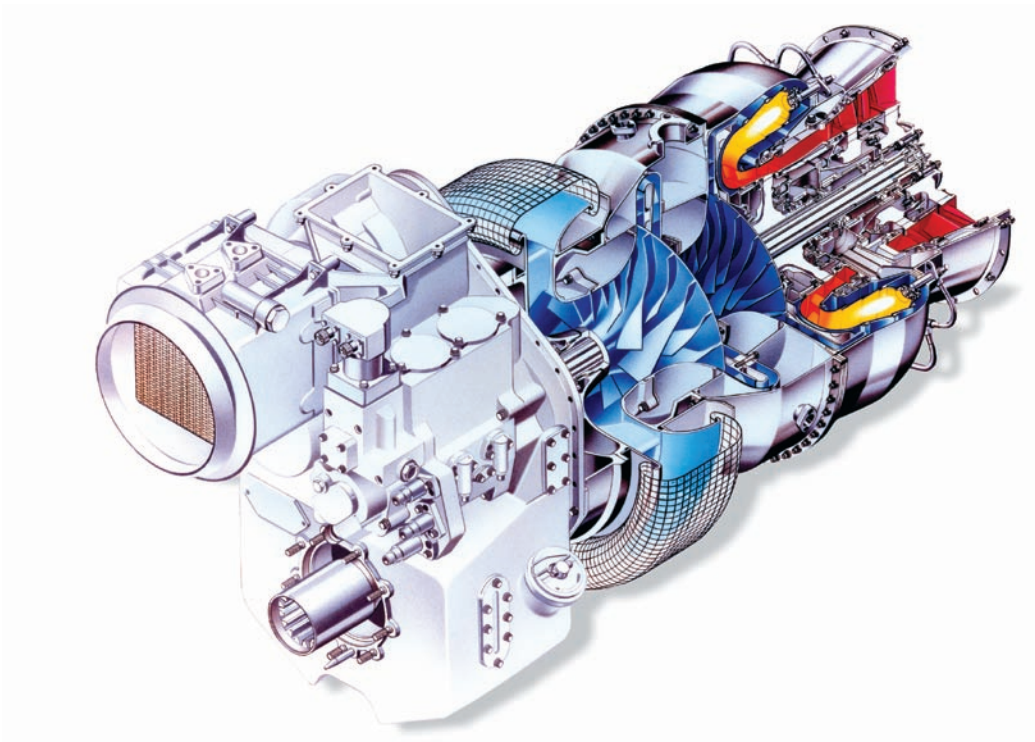
MTR390 turboshaft

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The MTR390-2C was developed by a consortium of MTU München of Germany, Turbomeca of France and Rolls-Royce, who came together in 1989 as MTU Turbomeca Rolls-Royce GmbH.

Development of the MTR390 was undertaken to power the Franco-German Eurocopter Tiger anti-tank and escort/support helicopter. In excess of 250 MTR390-2C engines have been ordered for the armed forces of France, Germany, Spain and Australia.

- **Next-generation European Collaborative turboshaft**
- **Successful development programme; first engine ran two months ahead of schedule**
- **The first production-configured Tiger aircraft rolled-out January 2003**
- **The enhanced MTR390E being developed for the next generation of Tiger aircraft**



intelligent innovation

In December 2001, Australia became the first export customer for the Tiger/MTR390, ordering 22 aircraft for delivery from 2004.

In September 2003, Spain became the second export customer for the Tiger, ordering 24 aircraft for delivery from 2006 and formally becoming a partner in the Tiger programme. To meet the needs of the Spanish operating requirements, MTR is developing an enhanced MTR390E variant in partnership with ITP, offering 14 percent additional power.

The MTR390 is suitable for a wide range of civil and military uses in helicopters and fixed-wing aircraft, both in single and twin-engine installations.

The MTR390's main characteristics are its ample emergency power (for one-engine-inoperative safety requirements in helicopters), high output-shaft power capability, low fuel consumption under partial load, good acceleration, easy handling and simple maintenance.



Engine Specification

Engine	MTR390-2C	MTR390E
Power shp (kW)	1,285 (958)	1,465 (1,092)
Pressure ratio	13	15
Length in (m)	42.4 (1.07)	42.4 (1.07)
Diameter in (m)	29.1 (0.73)	29.1 (0.73)
Basic weight lb (Kg)	414 (187)	434 (197.4)
Compressor	2CFHP	2CFHP
Turbine	1HP, 2PT	1HP, 2PT
Applications include	Eurocopter Tiger	



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