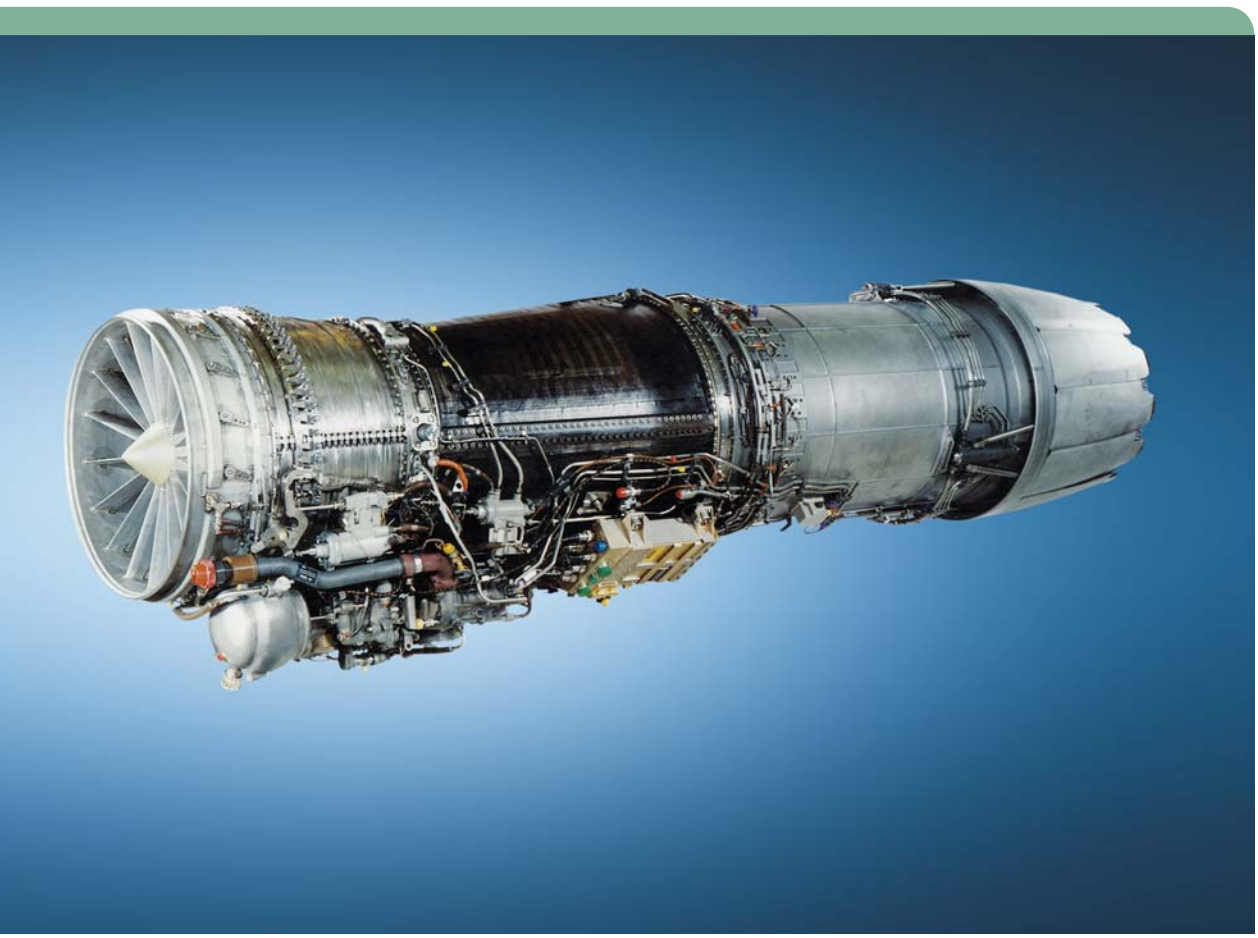
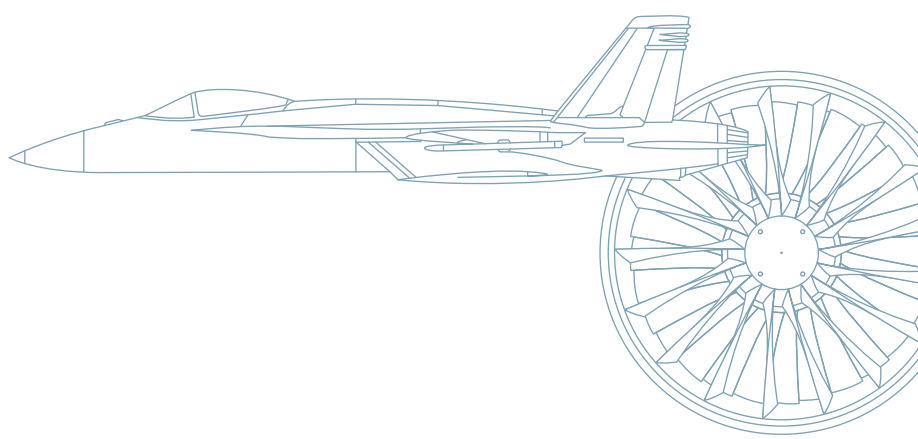
MTU Aero Engines



F414-GE-400 turbofan engine

The innovative power



F414-GE-400 – technology features

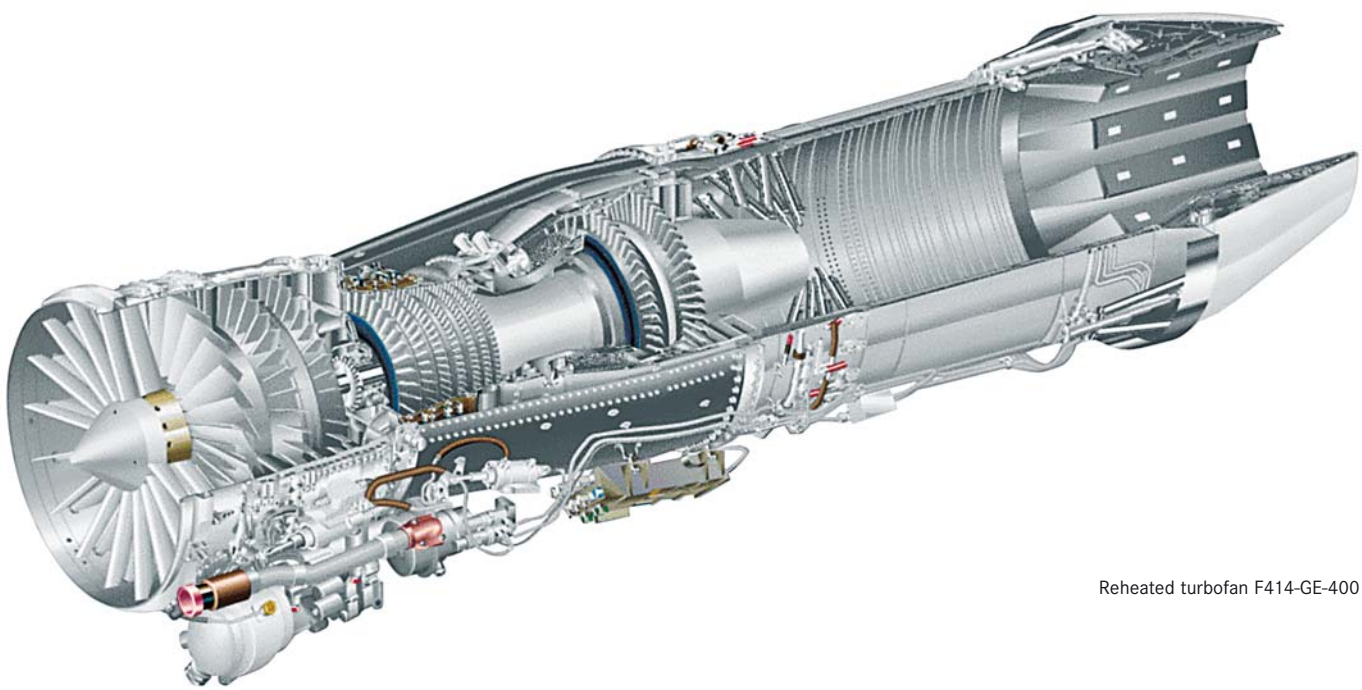
The F414-GE-400 combines advanced technology with the proven reliability, maintainability and operability of its successful F404 predecessor, while delivering 35 % more thrust. It significantly improves the Boeing F/A-18 Super Hornet's range, payload and survivability–enhancing the multi-mission capability of the aircraft. The F414-GE-400 also powers Boeing's EA-18G Growler electronic attack aircraft.

Advanced technology features such as a Full Authority Digital Electronic Control (FADEC) improve operational characteristics of the engine. New materials and cooling techniques improve performance and extend component life.

The F414 Enhanced Durability Engine (EDE) incorporates additional advanced technology, which can be retrofitted into the F414-GE-400 to deliver enhanced component capability for a significant reduction in ownership costs, or up to 20 % increased thrust improved specific fuel consumption.

The F414 is operational and combat proven on the U.S. Navy's Super Hornet. It is also a potential powerplant for emerging platforms such as the Korean KF-X and the Indian MCA, as well as growth versions of the Saab/BAE Systems JAS39 Gripen, KAI/LMTAS T-50, and the Indian LCA.

In 2006, MTU signed a Risk-Sharing-Agreement with General Electric securing a considerable share for MTU until the end of the engine's life. The agreement covers production of major modules and parts, giving MTU the opportunity to also participate in the development of future derivatives of the F414. Thus, MTU for the first time has entered into a risk and revenue sharing participation in a major U.S. military engine program, constituting an important step for MTU in expanding its business with one of the most significant players in the world engine market.



Reheated turbofan F414-GE-400

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Performance specifications (sea level/standard day)		
F414-GE-400		
Max. thrust, reheated	22,000 lbf	98 kN
Length	154 in	3,912 mm
Air flow rate	170 lbs/s	77.1 kg/s
Maximum diameter	35 in	889 mm
Inlet diameter	32 in	810 mm
Pressure ratio	30:1	30:1
Thrust-to-weight ratio	9:1	9:1

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