

# F404-GE-IN20 turbofan engine

## Applications



Indian Tejas Light Combat Aircraft

## Performance Specifications (Sea level/standard day)

F404-GE-IN20	English	SI
Thrust class	19,000 lb	84 kN
Length	159 in	404 cm
Airflow	153 lb/sec	70 kg/sec
Weight	2,365 lb	1,072 kg
Inlet diameter	28 in	71 cm
Pressure ratio	28:1	28:1



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## GE Aviation

The **F404-GE-IN20** engine is an enhanced production version of the F404-GE-F2J3, which is successfully powering India's Light Combat Aircraft (LCA) demonstrator. The highest thrust variant of the F404 family, the -IN20 incorporates GE's latest hot section materials and technologies as well as a Full Authority Digital Electronic Control (FADEC) with proven single-engine features for maximum safety and reliability.

It provides the Tejas LCA with reliable power and outstanding operational and handling characteristics. Its simple, modular design is reliable and easy to maintain.

The IN20 engine is a derivative of the highly successful F404 turbofan, with over 11 million flight hours experience on the Boeing F/A-18 and other combat aircraft.

# F404-GE-IN20

## turbofan engine



19,000 lb thrust class



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## GE Aviation

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-18E/F 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, now in development.

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 was selected in 2002 by the European Aeronautic Defense and Space Company (EADS) to power its Mako trainer/light combat aircraft.

The F414 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.

# F414-GE-400

## turbofan engine



22,000 lb thrust class



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# F414-GE-400 turbofan engine

## Applications



Boeing F/A-18E/F



Mako



Boeing EA-18G

## Performance Specifications (Sea level/standard day)

F414-GE-400	English	SI
Thrust class	22,000 lb	98 kN
Length	154 in	391 cm
Airflow	170 lb/sec	77.1 kg/sec
Maximum diameter	35 in	89 cm
Inlet diameter	32 in	81 cm
Pressure ratio	30:1	30:1
Thrust-to-weight class	9:1	9:1



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