



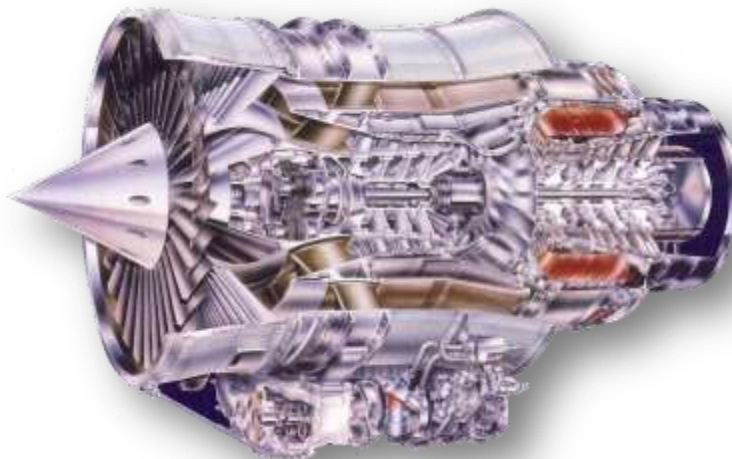
## 40<sup>th</sup> Anniversary of TFE731 Engine Certification

One of the most popular turbofan engines in General Aviation was introduced in 1972. The Garrett-AiResearch TFE731 was described as a medium by-pass, two spool, geared front fan turbofan engine. The origins of the design illustrated the cross-sharing of technology from Garrett's successful, large APU programs. The low pressure compressor design from the GTCP660 APU (Boeing 747) and the shaft dynamics from the two spool TSCP700 APU (DC-10) were integrated into the TFE731 design. The first two engine applications were the Lear 35 and Falcon 10.

In 1975, the Ziff-Davis publishing company awarded the Garrett Corporation the 'Aviation Product of the Year' award.

To date, there have been over 11,000 engines produced, powering more than 30 different aircraft designs. The original TFE731-2 was rated at 3500 lbs. of thrust. As the progression of later models were introduced (-3,-4,-5,-20,-40,-50,-60), the thermodynamic thrust levels have grown to 5500 lbs of thrust. While the majority of applications have been on business jets, there have been several, successful military applications which have used the standard engine as well as modified 731 variants.

New production engines continue to be produced for several applications, including the new Lear 70 and Lear 75, both of which will utilize the TFE731-40BR engines.





## Honeywell TFE731 Turbofan Engine Applications

Engine Model	Thermodynamic Thrust	Aircraft
TFE731-2	3500 lbs	Lear 31 35 36  Falcon 10 100
TFE731-3	3700 lbs	731 Jetstar (AiResearch Aviation Mod) Lockheed Jetstar II (New Production) IAI Westwind 1124 IAI Astra 1125 Hawker 125-700 Falcon 50 Lear 55 Rockwell Sabre 65 Citation III/Citation VI
TFE731-4R	4200 lbs	Citation VII
TFE731-5	4500 lbs	Falcon 20 Retrofit Falcon 900A Hawker 125-750.....-5BR Hawker 125-800.....-5R, 4300 lbs Hawker 125-800XP....-5BR, 4660 lbs Hawker 125-850XP....-5BR Falcon 900B.....-5BR, 4750 lbs Falcon 900C.....-5BR, 4750 lbs
TFE731-20	4400 lbs	Lear 40.....-20AR 40XR ...-20BR 45XR....-20BR
TFE731-40	4700 lbs	Falcon 50EX.....3700 lbs Astra 1125 SPX (G100)....4250 lbs Gulfstream 150...-40AR....4250 lbs Falcon 50 EX.....3700 lbs
TFE731-40BR	3850 lbs	Lear 70 Lear 75
TFE731-50	5000 lbs	Hawker 900XP.....-50R
TFE731-60	5500 lbs	Falcon 900 DX Falcon 900 EX Falcon 900 LX Falcon 900 EX Easy

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