



# LARZAC<sup>®</sup> 04

**MILITARY AIRCRAFT ENGINES**



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The Larzac® is a proven, highly reliable jet engine featuring easy maintenance and low cost of ownership.

It is mainly designed to power single or twin-engine trainers and light tactical support aircraft.

ENGINE FEATURES	-C6	-C20
• Thrust (lb)	2,970	3,200
• Specific fuel consumption (kg/daN.h)	0.73	0.76
• Airflow (kg/s)	28.10	28.60
• Turbine Inlet Temperature (K)	1,403 (2,066°F)	1,433 (2,120°F)
• Pressure ratio	10.50	11.10
• Bypass ratio	1.13	1.04
• Length (in)	46.73	46.73
• Inlet diameter (in)	17.79	17.79
• Weight (lb)	650.35	650.35

Launched in 1969 by Snecma and Turbomeca, the Larzac® is one of the first aircraft engines developed from the outset for cross-border applications.

The Larzac® 04C6, rated at 13.2 kN of thrust, powers AlphaJet trainers for the French air force. The Larzac® 04C20, a 14.2-kN-thrust version launched in 1982, has powered the Luftwaffe's AlphaJets since 1984. It currently powers the AlphaJets deployed by 13 air forces worldwide.

In 2003, the Larzac® passed the milestone of 3 million flight hours, further confirming its reliability and maintainability.

The Larzac®'s modular design means that users can handle a number of maintenance operations on their own. For the last twenty years, the Larzac® has been continuously upgraded. It still offers considerable development potential thanks to its ability to incorporate new technologies: for example a new full authority digital engine control (FADEC) and an increase of thrust by 20 percent.

Today, the Larzac® is the best choice in its thrust class to power all new single or twin-engine training or tactical support aircraft.

### DESCRIPTION

- Twin-shaft, modular design turbofan engine
- 2-stage LP compressor
- 4-stage HP compressor
- Annular combustor
- Single-stage HP turbine
- Single-stage LP turbine
- Hydromechanical engine control combined with electronic computer
- On-condition maintenance