



MILITARY AIRCRAFT ENGINES

**M53-P2**

# M53-P2

**The M53-P2 engine, the latest version in the M53 family, powers the Mirage 2000 combat aircraft**

**This reliable, high-performance engine displays excellent handling characteristics and has proved itself in active combat**

The M53-P2 engine powers all the Mirage 2000 fighter aircraft, including the most recent multirole versions Mirage 2000-5 and Mirage 2000-9. Chosen by 9 air forces on 4 continents, the M53-P2 is appreciated by the pilots for its exceptional handling characteristics due to full authority digital engine control (FADEC).

Its extensive flight range – from unrestricted flight at very low speeds up to Mach 2.2 – makes it the ideal engine for modern combat aircraft missions.

Over the last few years, Snecma has introduced new technologies into the M53-P2 in order to reduce the number of engine removals and maintenance costs.

Having logged more than 1,500,000 flight hours, the M53-P2 engine has demonstrated its exceptional dependability and performance in projected force operations.

## CARACTERISTIQUES

	M53-P2
A/B thrust (lb)	21,400
Dry engine thrust (lb)	14,500
A/B specific fuel consumption (kg/daN.h)	2.10
Dry engine thrust specific fuel consumption (kg/daN.h)	0.90
Air flow rate (kg/s)	94
Turbine Inlet Temperature (K)	1,600 (2,420°F)
Pressure ratio	9.80
Bypass ratio	0.36
Length (in)	199.60
Inlet diameter (in)	31.33
Weight (lb)	3,340

## DESCRIPTION

- ▶ Single-shaft, bypass turbofan engine
- ▶ 3-stage LP compressor
- ▶ 5-stage HP compressor
- ▶ Annular combustion chamber
- ▶ 2-stage cooled turbine
- ▶ Annular A/B chamber
- ▶ Variable-section convergent flap-type nozzle
- ▶ Full authority digital engine control (FADEC)
- ▶ Modular on-condition maintenance (12 modules)