

Concorde
intake and exhaust



Rolls-Royce SNECMA Olympus

General characteristics

- Type: Turbojet
- Length: 4039 mm (159 in)
- Diameter: 1212 mm (47.75 in)
- Dry weight: 3175 kg (7,000 lb)

Components

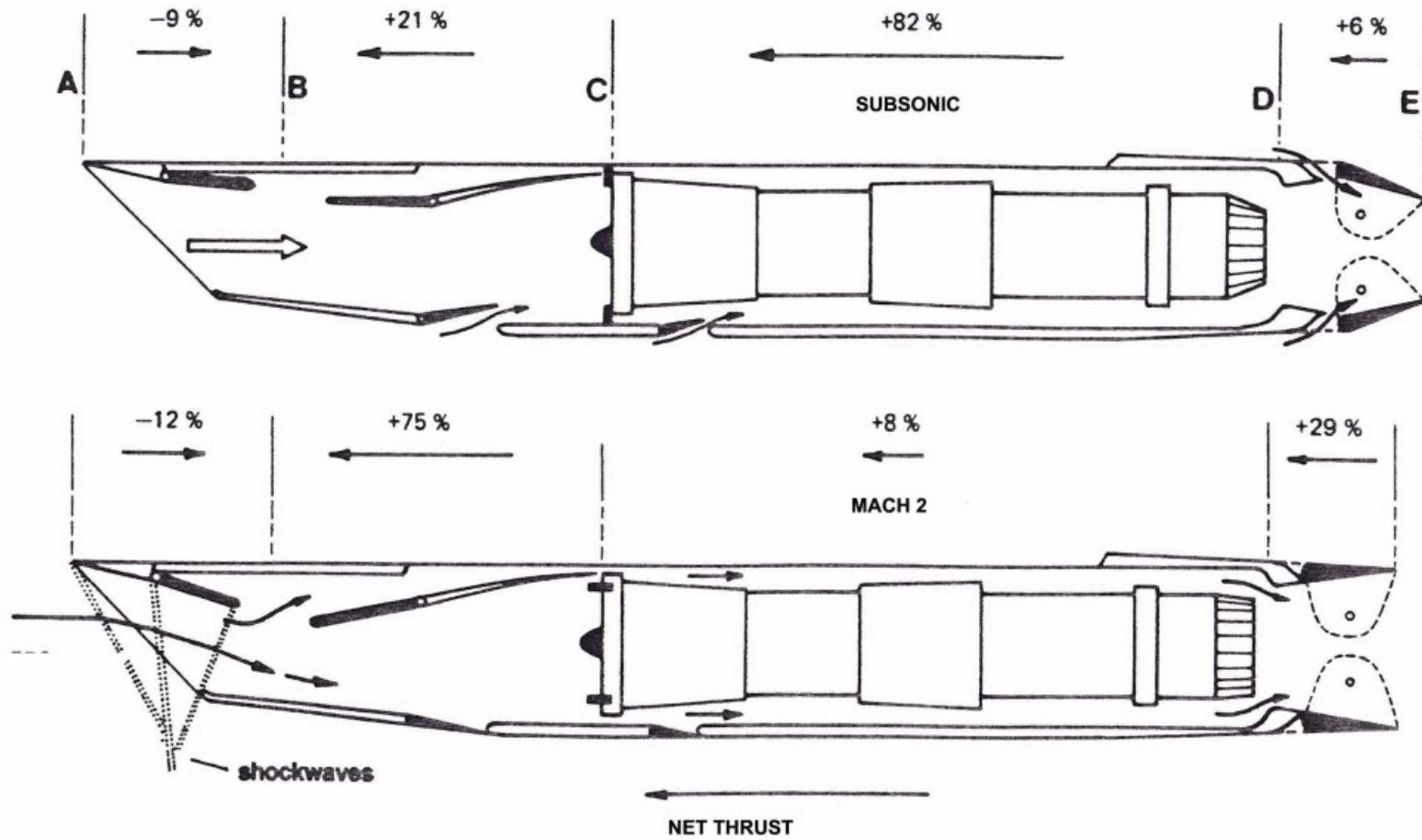
- Compressor: Axial flow, 7-stage low pressure, 7-stage high pressure
- Combustors: Nickel alloy construction annular chamber, 16 vaporising burners, each with twin outlets
- Turbine: High pressure single stage, low pressure single stage

Performance

- Maximum Thrust: wet: 169.2 kN (38,050 lbf) dry: 139.4 kN (31,350 lbf)
- Overall pressure ratio: 15.5:1
- Turbine Entry Temperature: 1725 K
- Specific fuel consumption: 1.195 (cruise), 1.39 (SL) lb/(h·lbf)
- Thrust-to-weight ratio: 5.4

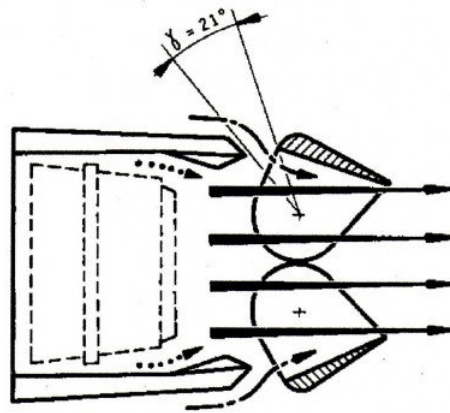




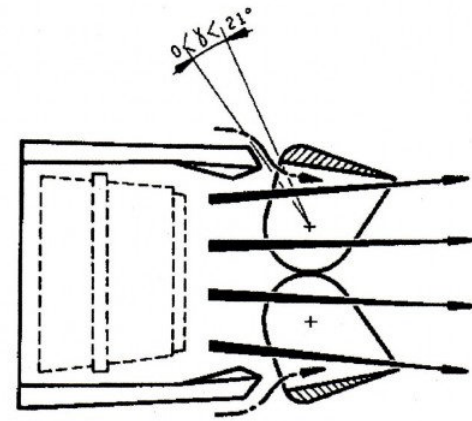




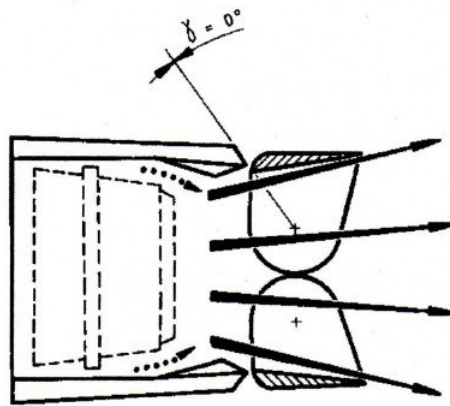




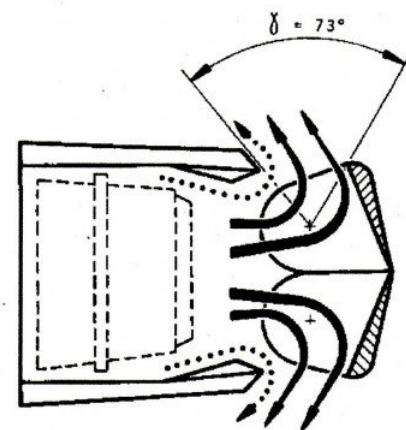
TAKE-OFF MODE



TRANSONIC MODE



SUPERSONIC MODE



GROUND REVERSE MODE

- PRIMARY AIRSTREAM
- - - TERTIARY AIRSTREAM
- SECONDARY AIRSTREAM

Modulation of the Twin Secondary Nozzle Exhaust Area