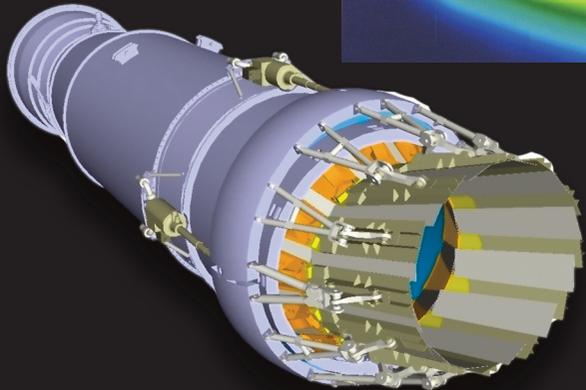
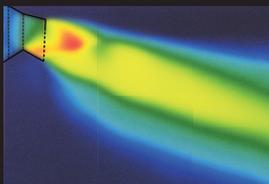


Simple Design: Light and Efficient

Optimized Divergent Section for High Deflection Angles



Proven through Full-Scale Engine Testing
EJ200 Thrust Vectoring Nozzle is to date the only example of 3-D vectoring nozzle in the 20,000 lbf thrust engine class which has been demonstrated in full-scale engine tests.

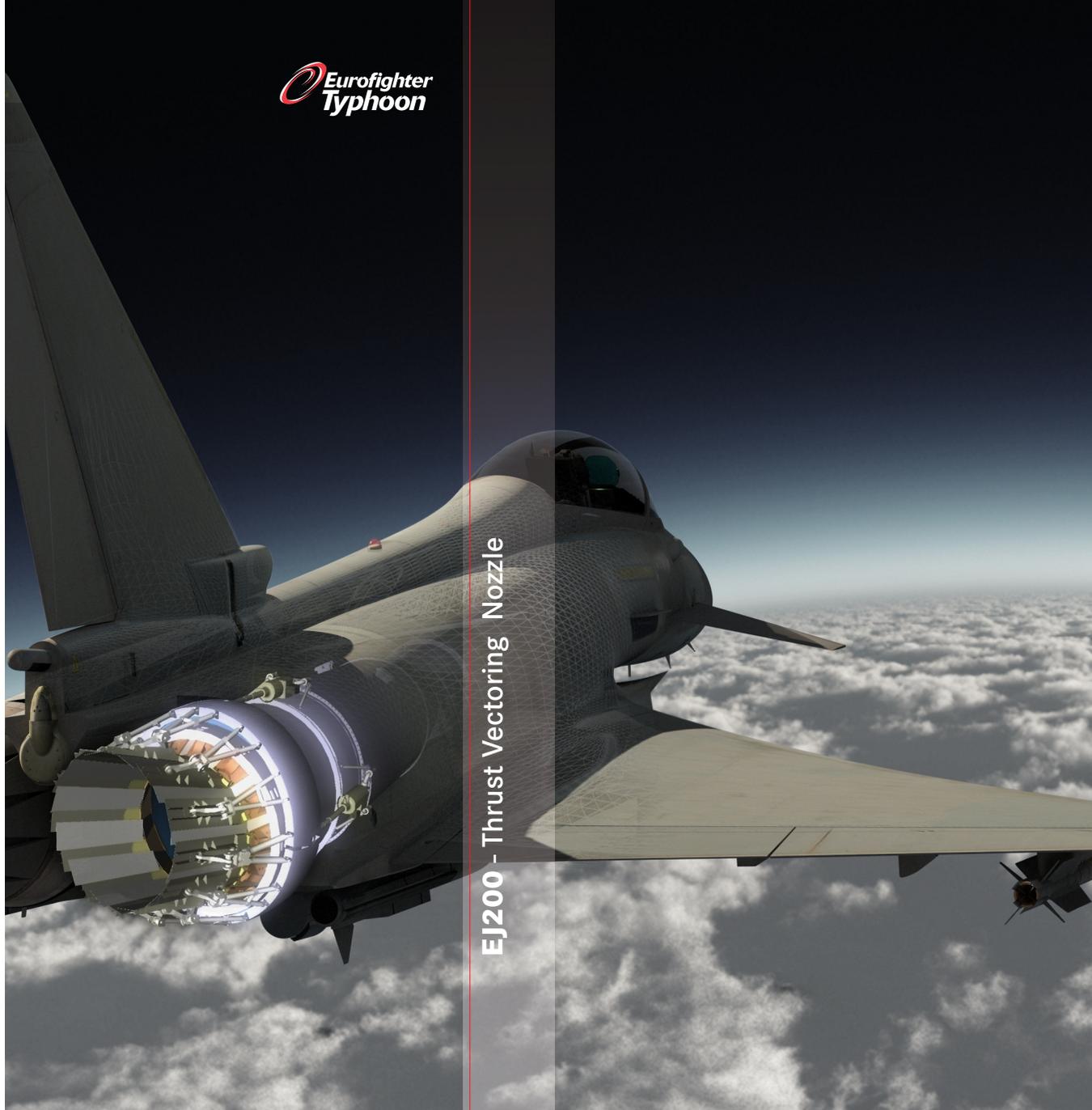
Balance-Beam Effect for Lower Actuator Loads
The EJ200 thrust vectoring nozzle makes use of a partial balance-beam effect, that utilizes gas stream energy to move the nozzle, hence reducing the work required from the actuators.

Eurofighter

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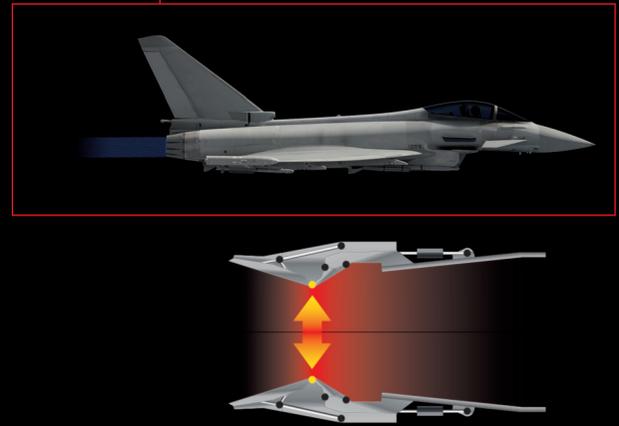


EJ200 - Thrust Vectoring Nozzle



Eurofighter Typhoon EJ200 Intelligent Nozzle technology - offering three levels of capability enhancement:

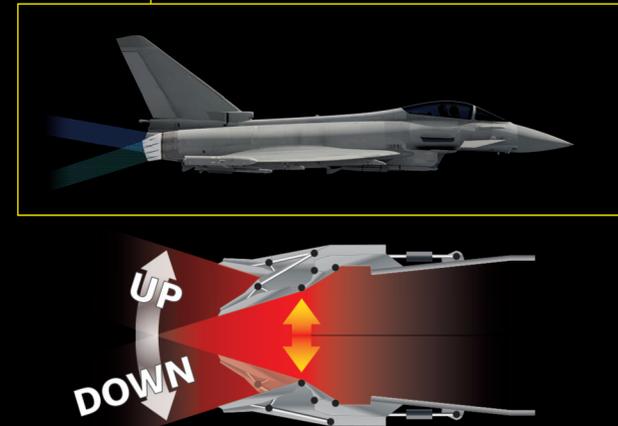
Level A: 1-Dimensional Movement Nozzle



The 1-Dimensional Movement Intelligent Nozzle provides significant improvements in aircraft performance and decreases Through Life Costs:

- Net thrust increment up to 6%
- Using present thrust level, fuel consumption is reduced at cruise and supercruise conditions
- Turbine temperatures are reduced allowing more flight time between engine inspections/removals.

Level B: 2-Dimensional Movement Nozzle



A 2-Dimensional movement (in the vertical aircraft axis) Intelligent Nozzle introduces Thrust Vectoring Capability:

- Improving operational flexibility
- Improving agility throughout flight envelope to maintain combat edge over future adversaries.

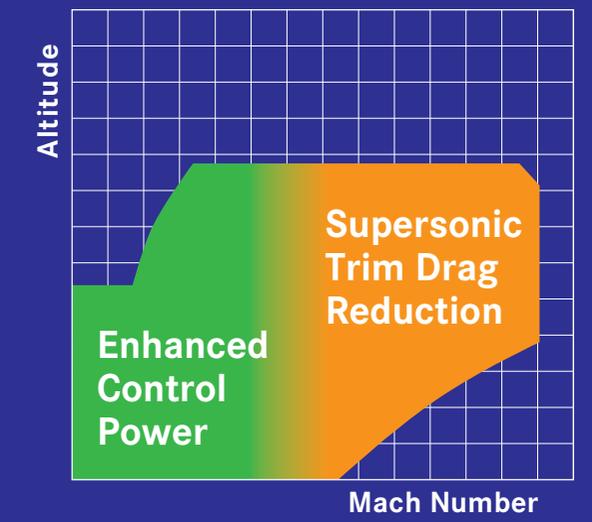
Level C: 3-Dimensional Movement Nozzle



A 3-Dimensional movement (in both the vertical and horizontal aircraft axis) Intelligent Nozzle maximises Thrust Vectoring Capability:

- Maximises combat performance
- Increased nose pointing authority, very low speed control and superior roll authority.

Point and Mission Performance:



- Reduced take-off and landing distance
- Increased max dry and max reheat thrust: Enhanced sustainable instantaneous turn rates and mission performance
- Reduced fuel burn & trim drag reduction: Improved combat effectiveness by increased mission radius/loiter time