

# India seeks MiG-29s from Russia

The Indian Air Force is in talks with Russia for the procurement of 21 upgraded MiG-29 fighter aircraft. Super-maneuvrability is achieved by three-dimensional thrust-vectoring engine nozzles that allow the fighter to assume practically any angle for an attack

## Thrust-vectoring:

Each engine nozzle has three hydraulic actuators mounted at 120° intervals around engine nacelles to deflect thrust, giving aircraft 360 degree manoeuvrability

## Tailplane:

Low-set horizontal stabilizers move independently

## RD-33MK turbofan engines:

Built under licence by Hindustan Aeronautics Ltd. Provide maximum speed of Mach 2.3 (2,450km/h) at up to 17,000m altitude

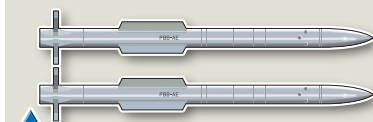
Nozzles can move 15° in any direction

**Glass cockpit:** Digital screens, fly-by-wire controls, new weapons system

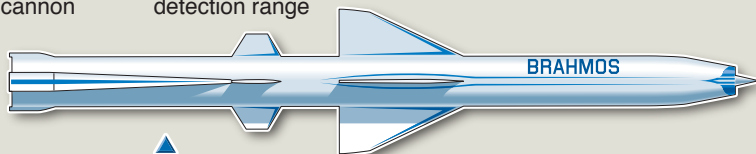
Length: 17.32 m  
Wingspan: 11.36 m

**Armaments:** Two R-77 air-to-air medium-range missiles, six short range missiles; four pods of unguided rockets, 3,000kg of bombs; and 30mm built-in cannon

**Radar upgrade:** N-109 radar replaced by Phazotron Zhuk-M radar featuring greater air and sea target detection range



**Vypel R-77:** Multi-shaped charge warhead fitted with laser proximity target sensor



**BrahMos anti-ship missile:** Mach 3 (2,500-3,000 km/h) 300kg semi-armour piercing warhead