

Flying beyond the possible

The Russian MiG-29 OVT prototype has been the star at air shows around the world, performing aerobatics that defy the laws of gravity. Super-maneuvrability is achieved by three-dimensional thrust-vectoring engine nozzles that allow the fighter to assume practically any angle for an attack

отклоняемый вектор тяги

MiG-Klimov engines: Two RD-33 turbofan engines provide maximum speed of 2,400km/h at up to 18,000m altitude

Tailplane: Low-set horizontal stabilizers move independently

THREE-DIMENSIONAL THRUST-VECTERING

Each nozzle has three hydraulic actuators mounted at 120° intervals around engine nacelles to deflect thrust

3-D thrust-vectoring allows pilot to flip aircraft off axis of flight to evade chasing missile

Nozzles can move 18° in all directions

MiG-29 OVT: Is being offered as the **MiG-35**, with a price-tag of around \$32 million, just a fifth of the cost of an American F-22 Raptor

Two-seat cockpit

Super-cruise: Capable of supersonic flight with afterburner disabled

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

Vympel R-73 short range missile.
Range: 20km, speed: 2,500km/h

Radar: Fifth-generation **Tikhomirov NIIP Bars-29** pulse-doppler radar, capable of simultaneously tracking and attacking over 20 targets

Sources: MiG Corp., Jane's Defence Weekly

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