

 Eurofighter  
Typhoon



n o t h i n g   c o m e s   c l o s e



Eurofighter Typhoon is the world's most advanced new generation multi-role/swing-role combat aircraft. With 707 aircraft under contract, it is Europe's largest military aircraft programme. Eurofighter Typhoon is in service with the Air Forces of Germany, Italy, Spain, the United Kingdom, and Austria, the first export customer. The Kingdom of Saudi Arabia has also contracted the procurement of Eurofighter Typhoon.

Employing over 100,000 people in 400 companies, the Eurofighter programme is at the leading edge of Europe's aerospace capabilities.

The Eurofighter Typhoon programme brings strength to Europe's defence and security.

At the same time, it is fundamental to the technology future of the European aero-

space and industrial sectors. Eurofighter Typhoon has attracted significant export interest around the world where we are clearly the aircraft of choice. Eurofighter Typhoon is the unmatched leader in modern combat aircraft design that will provide security today and for many years to come.



### Capability

The World's Most Capable Combat Aircraft

- Multi-Role/Swing-Role – Capable of Air-to-Air and Air-to-Ground Missions in the same Flight
- 13 Weapons Carriage Points
- Reliability
- Designed for Growth
- Low Cost of Ownership



### Human Machine Interface

Bringing Pilot and Aircraft Together

- Full Glass Cockpit
- Sensor Fusion
- Voice Activation
- Helmet Mounted Display



### Sensors

See Before You Are Seen

- Radar
- Infra-Red Search and Track/Forward Looking Infra-Red
- Defensive Aids Sub-System
- Data Links



### Performance

Built to get the Job Done

- High Thrust to Weight Ratio
- 30% Thrust Growth Available
- Low Observability
- High Agility and Carefree Handling
- High Supersonic Performance

## The World's Largest Production Programme

### Performance – Built to Get the Job Done

Eurofighter Typhoon has been designed and built by some of Europe's most capable aerospace companies. Its airframe design features, the latest low-weight, high-strength materials crafted to provide a strong and robust airframe, while at the same time making it difficult for a potential enemy to track the aircraft.

The aircraft is powered by two Eurojet EJ200 engines providing an excellent combat thrust-to-weight ratio in excess of 1.2:1. With its low fuel consumption, Eurofighter Typhoon possesses a unique supercruise capability. This enables the pilot to accelerate to speeds above mach 1 on afterburner, retard the throttles, and continue at speeds above the speed of sound without afterburner. This capability saves fuel and reduces the aircraft's thermal signature.

With a robust and rugged design, and the power to win, Eurofighter Typhoon's flight control system enables the pilot to aggressively fly the aircraft to outmanoeuvre enemy aircraft. This highly sophisticated flight control system allows the pilot to adopt the optimum flight profile for the combat environment. The results, in the words of one Eurofighter Typhoon pilot, "makes the aircraft extremely safe and a real delight to fly."

F-104 Starfighter	Air Superiority
Tornado ADV	Air Superiority
MiG-29	Air Superiority
Draken	Air Superiority
F-5	Air Surveillance
Mirage F1C	Multi-Role
F-16	Multi-Role
F/A-18	Multi-Role
F-4 Phantom	Multi-Role/Recco
Tornado IDS	Air to Ground
Jaguar	Air to Ground

Eurofighter Typhoon replaces up to 11 aircraft types

## Designed By Pilots For Pilots

### Human Machine Interface – Bringing Pilot and Aircraft Together

Historically, designers have built aircraft without recourse to how the pilot would fully interact with the aircraft and its systems. In the case of Eurofighter Typhoon, pilots have been involved at all stages of the programme to ensure that the interface between aircraft and pilot is totally seamless. With Eurofighter Typhoon, the Human Machine Interface (HMI) is second to none.

First, the aircraft cockpit is spacious with all controls within easy reach. A full glass cockpit, including wide-angle Head Up Display (HUD), full-colour Head Down Displays (HDD) and Helmet Mounted Display (HMD), provide the pilot with

clearly presented information from sensors, flight instruments and aircraft mission computers. Known as sensor fusion, the mission computer brings together all sensor inputs, integrates them and presents the pilot with just the right information for the task in hand.

To reduce pilot workload still further, Eurofighter Typhoon has a Voice Throttle And Stick (VTAS) system which allows the pilot to keep his hands on throttle and stick and operate the majority of the aircraft's controls from this position. Other commands can be given through voice activation.



# Eurofighter Typhoon.

# One Aircraft, Any Mission.

IRIS-T

AGM-65 Maverick

Paveway II family (GBU-10, GBU-16, UK Paveway II, Enhanced Paveway II)

JSOW

Free-fall/retarded bombs (500 lb class)

Free-fall/retarded bombs (1000 lb class)

Free-fall/retarded bombs (2000 lb class)

AGM-88 HARM

Paveway III family (GBU-24/B, GBU-24 A/B, UK Paveway III, BPG 2000)

Taurus

Laser Designator Pod

1000 litre fuel tank

Sidewinder AIM-9L

ASRAAM

AMRAAM

Meteor

Kongsberg NSM

Brimstone

CBLS-200

2000 litre fuel tank

ALARM

Storm Shadow

RECCE pod

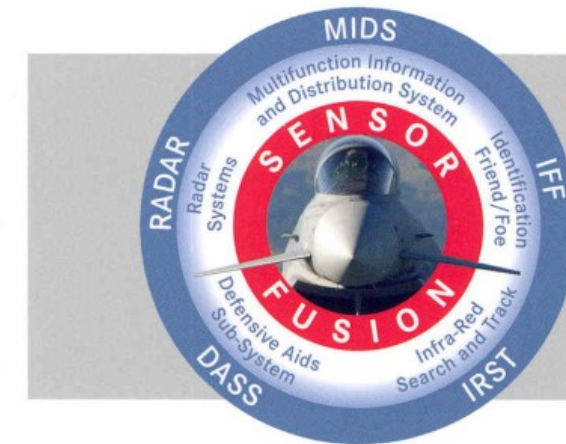
## The Complete Combat Aircraft

### Sensors – See Before You Are Seen

The crucial element of any air combat is to see the enemy before the enemy sees you. This maxim not only applies to Air-to-Air combat but also to Air-to-Ground missions.

To help the Eurofighter Typhoon pilot achieve this vital aim, the aircraft is fitted with an advanced array of passive and active sensors. These include Radar, an Infra-Red Search and Track (IRST) to detect and track enemy aircraft, a Forward Looking Infra-Red (FLIR) system to allow the pilot to see at night and in poor weather as well as a range of Electronic Warfare (EW) sensors. The latter tells the pilot when they are being illuminated by radar or laser trackers.

With such a comprehensive suite of sensors available, the pilot has confidence that Eurofighter Typhoon can do its job in all weathers, against all threats and at any time of the day or night.



## Operational Dominance

### Capability – The World's Most Capable Combat Aircraft

Rugged, robust and agile, Eurofighter Typhoon is built and equipped to fly the mission, hit the target and get home safely. With 13 hardpoints, the aircraft can carry a mixture of ordnance and fuel to enable it to carry out all mission types including Air-to-Air, Air-to-Ground, anti-shipping, and reconnaissance. Due to Eurofighter Typhoon's sophisticated

sensors, highly capable mission computers and excellent HMI, the Weapon System is able to carry different types of ordnance on the same mission and be re-rolled while airborne. This swing-role capability provides the air commander with a unique flexibility which sets Eurofighter Typhoon apart from the crowd.

## Affordability

### Low Cost – Eurofighter is the Low Risk, Affordable Solution

Eurofighter Typhoon is a rugged, highly-capable and reliable aircraft that provides nations with a potent air deterrent. Its long-term cost of ownership combined with a built-in

growth plan means that Eurofighter Typhoon is the only real combat aircraft choice for Air Forces both today and tomorrow.



**Eurofighter**  
**Typhoon**

# Eurofighter

Eurofighter GmbH  
Am Söldnermoos 17  
85399 Hallbergmoos  
Germany  
Telephone +49 811 80 0  
Fax +49 811 80 1557  
E-mail info@eurofighter.com

www.eurofighter.com

## General Characteristics

### Mass

Mass Empty	11,000 kg (24,250 lb)
Maximum Take-off	> 23,500 kg (51,809 lb)
Maximum External Load	> 7,500 kg (16,535 lb)

### Design Characteristics

Single seat twin-engine, with a two-seat variant

Weapon Carriage	13 Hardpoints
G' limits	+9/-3 'g'
In-service life	25 years/6,000 Flying Hours

Power Plants Two Eurojet EJ200 reheated turbofans

max dry thrust class	60 kN (13,500 lb)
max reheat thrust class	90 kN (20,000 lb)

Supercruise capability

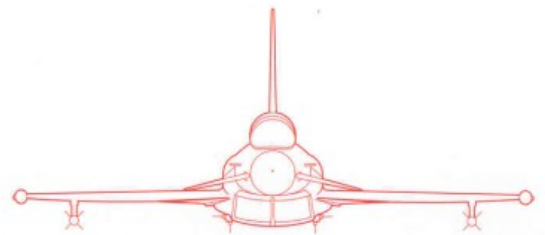
### General Performance Characteristics

#### with a full Air-to-Air Missile Fit

Ceiling	> 55,000ft
Brakes off to 35,000 ft / M1.5	< 2.5 minutes
Brakes off to lift off	< 8 seconds

At low level, 200Kts to Mach 1.0 in 30 seconds

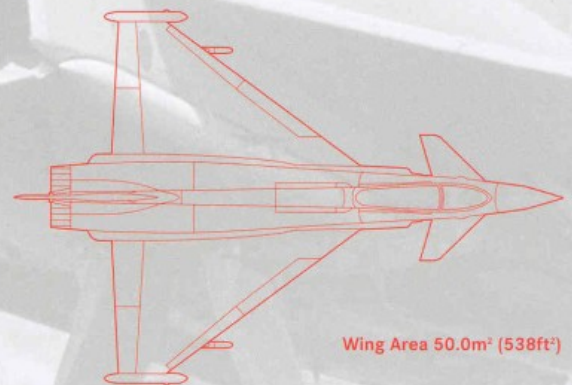
Maximum Speed	Mach 2.0
Operational Runway Length	< 700m (2,297ft)



Wingspan 10.95m (35ft 11in) Height 5.28m (17ft 4in)



Length Overall 15.96m (52ft 4in)



Wing Area 50.0m<sup>2</sup> (538ft<sup>2</sup>)