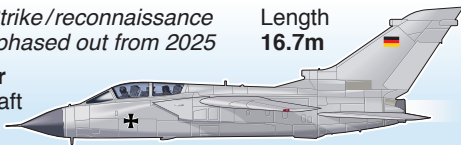


Jets compete to replace Germany's Tornado

Germany is to make a decision on replacing its 85-strong fleet of ageing Tornado jets, with four designs competing for the lucrative contract

TORNADO: *Strike/reconnaissance aircraft to be phased out from 2025*

Manufacturer
Panavia Aircraft

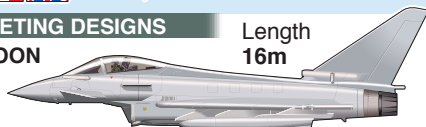


Length
16.7m

Powerplant
2 x Turbo-Union
RB199 turbofans,
maximum thrust
72kN each

COMPETING DESIGNS

TYPHOON



Length
16m

Manufacturer
Eurofighter Jagdflugzeug



Powerplant: 2 x Eurojet
EJ200 turbofans, 90kN each

Germany already has 128 jets in service

F-35A LIGHTNING II



Length: 15.7m

Manufacturer
Lockheed Martin



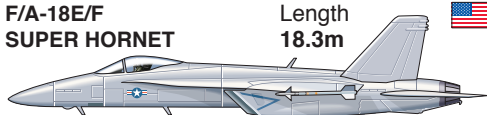
Powerplant
Pratt & Whitney
F135 turbofan,
191kN

**F/A-18E/F
SUPER HORNET**

Length
18.3m



Manufacturer
Boeing (McDonnell Douglas)



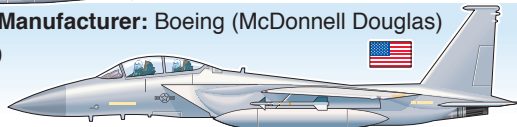
Powerplant: 2 x GE F414
turbofans, 98kN each

F-15E STRIKE EAGLE

Manufacturer: Boeing (McDonnell Douglas)

Powerplant: 2 x P&W F100
turbofans, 129kN each

Length: 19.4m



COMPARISON ■ Tornado ■ Typhoon ■ F-35A ■ F/A-18E/F ■ F-15E

Speed (Mach)

1.3

2.0

1.6

1.8

2.5

Payload (kg)

9,000

7,500

8,160

8,050

10,400

Internal fuel (kg)

5,100

5,000

8,390

6,530

10,560

New jets will need to be capable of carrying U.S. nuclear warheads as part of shared NATO defence policy – role currently performed by Tornado. Eurofighter Typhoon is not officially certified by U.S. to carry such weapons