

- 1. Localised structural strengthening
- 2. Localised Engine strengthening
- 3. Modified Arrestor Hook
- 4. Strengthened larger stroke undercarriage
- 5. Thrust Vectors Engines

Navalised Typhoon



With limited modifications, Typhoon would be capable of carrier operations across the full range of environmental conditions, and would have comparable take-off and landing performance to equivalent multi-role naval aircraft. This would allow Typhoon's exceptional operational capability to be employed in the naval domain. The two would allow significant overlap with the existing Typhoon support infrastructure.

Carrier Operations

The demanding nature of carrier operation has been extensively scrutinised and key areas identified:

Take-Off Performance

Typhoon has excellent power to weight ratio for carrier take-off with ski jump

- Does not require a costly catapult launch system
- Does not require modification to the engines to provide additional thrust

Environment

Salt water corrosion

Shock and vibration

- Take-off and landing
- Deck transmissions

Carrier motion

- Pitch, heave & roll
- Function of sea state and carrier design

Wind over deck

- Combined wind and carrier speed

Electromagnetic radiation

- In particular carrier's radar etc.

Landing Performance

Capable of landing on the carrier with a wide range of stores Configurations

Flight deck and visual landing aids remain in the pilot's line-of-sight

Carrier needs to be fitted with a standard arrestor wire system

Engines have sufficient thrust and responsiveness for wave off or bolter

Support Solution

Navalised Typhoon will benefit from a high degree of commonality with land-based support infrastructure and inherent platform supportability

- High reliability
- Deployable, synthetic training devices
- Logistics footprint and deployability
- Ground level flight servicing
- Rapid engine changes and no requirement for high power ground runs
- Modular support concept for ease of embarkation / disembarkation

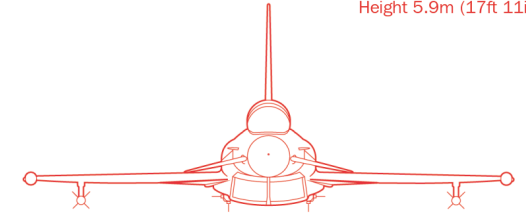
Optimisation of support infrastructure and equipment for naval operations

- Minor environmental modifications
- Embarked operations
- Spares pipeline

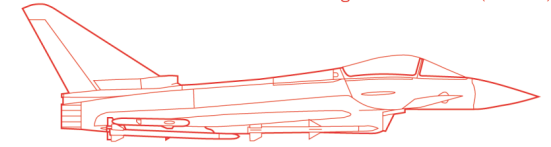
Host carrier specifics and operational concepts would need to be explored further to reach conclusion

Wingspan 10.95 (35ft 11in)

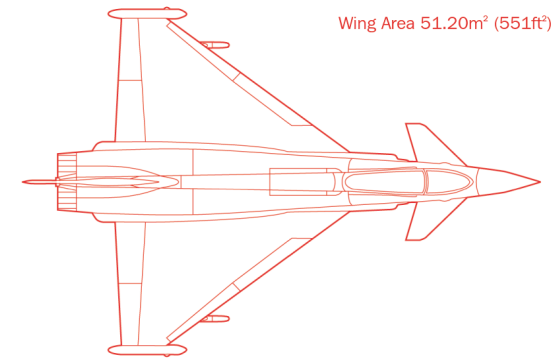
Height 5.9m (17ft 11in)



Length Overall 15.97 (52ft 5in)



Wing Area 51.20m² (551ft²)



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