

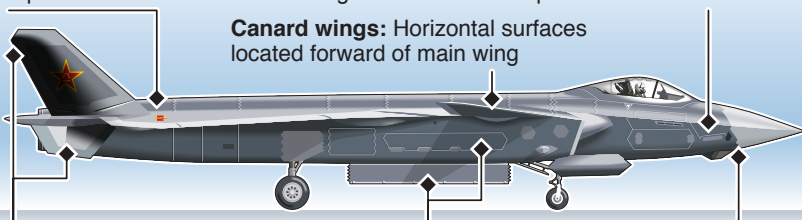
China showcases J-20 stealth fighter

China's secretive J-20 stealth fighter has made its public debut at the Zhuhai airshow. The long-range, radar-evading plane is seen as Beijing's answer to the U.S. military's F-22 Raptor and F-35 Lightning II

Powerplant: Reportedly two Russian-made Saturn AL-31F turbofans. Expected to be replaced with Chinese WS-15 engines

Stealth: Shaping around nose and engine intakes help deflect radar emissions

Canard wings: Horizontal surfaces located forward of main wing

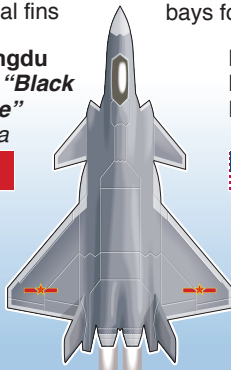


Tail: Twin vertical stabilizers and ventral fins

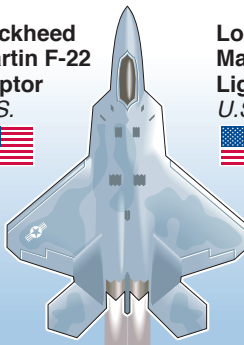
Armament: Large ventral bay and two smaller side bays for variety of weapons

Sensors: Possible AESA* radar and electro-optical targeting system

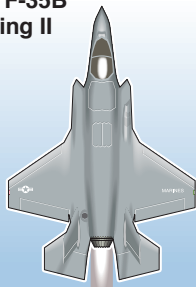
Chengdu J-20 "Black Eagle"
China



Lockheed Martin F-22 Raptor
U.S.



Lockheed Martin F-35B Lightning II
U.S.



Length: 20.3m

18.9m

15.6m

Weight (empty): 19,400kg

19,700kg

14,650kg

Internal fuel: 11,340kg

8,200kg

6,125kg

Max. speed: 2,100km/h (estimate)

2,410km/h (estimate)

1,930km/h

Operational: 2018 (planned)

2005

2015

Sources: Aviation Week, Lockheed Martin *Active electronically scanned array

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