Shenyang J-16

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| **J-16** |
| **Role** | [Multirole fighter](https://en.wikipedia.org/wiki/Multirole_combat_aircraft) |
| **National origin** | [People's Republic of China](https://en.wikipedia.org/wiki/People%27s_Republic_of_China) |
| **Manufacturer** | [Shenyang Aircraft Corporation](https://en.wikipedia.org/wiki/Shenyang_Aircraft_Corporation) |
| **Introduction** | 2013 |
| **Status** | In service, in production. |
| **Primary user** | [People's Liberation Army Air Force](https://en.wikipedia.org/wiki/People%27s_Liberation_Army_Air_Force) |
| **Produced** | 2012–present |
| **Number built** | 24+ reported built |
| **Developed from** | [Shenyang J-11BS](https://en.wikipedia.org/wiki/Shenyang_J-11#J-11) |

The **Shenyang J-16** ([Chinese](https://en.wiktionary.org/wiki/%E6%AD%BC): 歼-16) is a [strike fighter](https://en.wikipedia.org/wiki/Strike_fighter)designed and manufactured by [Shenyang Aircraft Corporation](https://en.wikipedia.org/wiki/Shenyang_Aircraft_Corporation), China. This is a multi-role fighter/bomber variant based on the J-11BS with longer range and upgraded avionics, a concept similar to [F-15E Strike Eagle](https://en.wikipedia.org/wiki/McDonnell_Douglas_F-15E_Strike_Eagle). The first few photos of J-16 were published on Chinese internet websites around June 2012. The J-16 has a slightly different vertical stabilizer compared to J-11 fighter or J-15 naval fighter. It is also equipped with missile pylons for Chinese PL-8 air-to-air missiles, another difference compared to earlier J-11 variants.

According to media reports, China developed the Shenyang J-16 fighter based on the [Shenyang J-11](https://en.wikipedia.org/wiki/Shenyang_J-11)B airframe, with modifications from the Russian [Sukhoi Su-30MKK](https://en.wikipedia.org/wiki/Sukhoi_Su-30MKK) that was sold to China in 2000.

The J-16 is able to carry a full range of indigenous Chinese equipment including super and subsonic anti-ship missiles, air to air missiles, satellite guided bombs, cruise missiles and electronic countermeasure (ECM) jammers. It has been speculated that the J-16's WS-10 engines lack sufficient power for the aircraft, given their design faults and the greater weight of the airframe compared to other Chinese [Su-27](https://en.wikipedia.org/wiki/Su-27) variants, and that an engine upgrade will be needed to allow the new plane to meet its design potential.

As of April 2014, the [PLAAF](https://en.wikipedia.org/wiki/People%27s_Liberation_Army_Air_Force) has taken delivery of a [regiment](https://en.wikipedia.org/wiki/Regiment) of J-16s.

Variants

* **J-16**: Strike variant.
* **J-16D**: [Electronic warfare](https://en.wikipedia.org/wiki/Electronic_warfare) variant. It has wingtip pods resembling the AN/ALQ-218, up to ten fuselage and wing hardpoints, and no [IRST](https://en.wikipedia.org/wiki/Infra-red_search_and_track) or 30 mm cannon. It reportedly made its first flight in December 2015.

Specifications

**General characteristics**

* **Crew:** 2
* **Length:** 21.9 m (72 ft)
* [**Wingspan**](https://en.wikipedia.org/wiki/Wingspan)**:** 14.7 m (48.25 ft)
* **Height:** 6.36 m (20.85 ft)
* **Wing area:** 62.04 m2 (667.80 ft)
* [**Empty weight**](https://en.wikipedia.org/wiki/Manufacturer%27s_empty_weight)**:** 17,700 kg (38,600 lb.)
* **Loaded weight:** 26,000 kg (58,000 lb.)
* [**Max. takeoff weight**](https://en.wikipedia.org/wiki/Maximum_takeoff_weight)**:** 35,000 kg (77,000 lb.)
* [**Powerplant**](https://en.wikipedia.org/wiki/Aircraft_engine)**:** 2 × [WS-10](https://en.wikipedia.org/wiki/WS-10)A afterburning turbofans
	+ **Dry thrust:** 89.17 kN (20,050 lbf) each
	+ **Thrust with**[**afterburner**](https://en.wikipedia.org/wiki/Afterburner)**:** 135 kN (33,000 lbf) each

**Performance**

* [**Maximum speed**](https://en.wikipedia.org/wiki/V_speeds#Regulatory_V-speeds)**:** [Mach](https://en.wikipedia.org/wiki/Mach_number) 2.0
* [**Range**](https://en.wikipedia.org/wiki/Range_%28aeronautics%29)**:** 3,900 km (2,400 mi)
* [**Service ceiling**](https://en.wikipedia.org/wiki/Ceiling_%28aeronautics%29)**:** 17,300 m (56,800 ft)
* [**Rate of climb**](https://en.wikipedia.org/wiki/Rate_of_climb)**:** 305 m/s ()

**Armament**

* 1 × 30 mm [GSh-30-1](https://en.wikipedia.org/wiki/GSh-30-1) cannon with 150 rounds
* Munitions on twelve external hardpoints, including:
* 8 × [PL-12](https://en.wikipedia.org/wiki/PL-12), and 4 × [PL-9](https://en.wikipedia.org/wiki/PL-9) [air-to-air missiles](https://en.wikipedia.org/wiki/Air-to-air_missile)
* Various bombs and rockets including [BeiDou](https://en.wikipedia.org/wiki/BeiDou_Navigation_Satellite_System) [satellite-guided bombs](https://en.wikipedia.org/wiki/Satellite-guided_bomb) and [laser-guided bombs](https://en.wikipedia.org/wiki/Laser-guided_bomb)
* [Anti-ship](https://en.wikipedia.org/wiki/Anti-ship_missile) and [anti-radiation missiles](https://en.wikipedia.org/wiki/Anti-radiation_missile)
* [Electronic countermeasure](https://en.wikipedia.org/wiki/Electronic_countermeasure) (ECM) pods

See also

**Related development**

* [Sukhoi Su-30MKK](https://en.wikipedia.org/wiki/Sukhoi_Su-30MKK)
* [Shenyang J-11](https://en.wikipedia.org/wiki/Shenyang_J-11)
* [Shenyang J-15](https://en.wikipedia.org/wiki/Shenyang_J-15)
* [4.5 generation fighter](https://en.wikipedia.org/wiki/Fourth_generation_jet_fighter)

**Aircraft of comparable role, configuration and era**

* [Sukhoi Su-34](https://en.wikipedia.org/wiki/Sukhoi_Su-34)
* [Sukhoi Su-35S](https://en.wikipedia.org/wiki/Sukhoi_Su-35S)
* [F-15SE](https://en.wikipedia.org/wiki/Boeing_F-15SE_Silent_Eagle)
* [Eurofighter Typhoon](https://en.wikipedia.org/wiki/Eurofighter_Typhoon)
* [Dassault Rafael](https://en.wikipedia.org/wiki/Dassault_Rafale)
* [Boeing F/A-18E/F Super Hornet](https://en.wikipedia.org/wiki/Boeing_F/A-18E/F_Super_Hornet)

**Related lists**

* [List of fighter aircraft](https://en.wikipedia.org/wiki/List_of_fighter_aircraft)