

What is Dongfeng-100 (DF-100)?

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About Dongfeng-100 (DF-100):

- Dongfeng-100, also known as **Changjian-100 (CJ-100)**, is a **Chinese supersonic cruise missile**.
- It was publicly introduced during China's 70th National Day parade on October 1, 2019.
- It is designed for precision strikes and features capabilities aimed at engaging a wide variety of targets, including land-based infrastructure, reinforced installations, underground bunkers, and large warships.
- **Features:**
 - The missile is a **land-based system** with a **range** reportedly between 3,000 and **4,000 kilometers**.
 - 10×10 transporter erector launchers are used to launch it. But it can also be launched from a bomber.
 - It has a length exceeding 9 meters, a projectile diameter ranging between 0.7 and 1 meter, and a payload capacity of over 500 kilograms.
 - The missile is **powered by a ramjet engine** and achieves **speeds of Mach 5 during its terminal phase**.

- It boasts **supersonic speeds** throughout **nearly all phases of its flight**, enhancing the missile's survivability and ability to penetrate air defenses.
 - This missile goes up to a height of 30 kilometers after launch, after which it turns towards the target.
 - Its **guidance system** includes **inertial navigation, terrain matching**, scene matching, and **satellite positioning**, providing high accuracy.
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Q1: What are Cruise Missiles?

Cruise missiles are unmanned vehicles that are propelled by jet engines, much like an airplane. They can be launched from ground, air, or sea platforms. Cruise missiles remain within the atmosphere for the duration of their flight and can fly as low as a few meters off the ground. Flying low to the surface of the earth expends more fuel but makes a cruise missile very difficult to detect

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