

CJ-1000 Missile

February 20, 2026 • vajiramandravi.com



CJ-1000 Missile Latest News

China recently showcased the CJ-1000, a land-based scramjet-powered hypersonic missile, during a military parade in Beijing.

About CJ-1000 Missile

- It is a **road-mobile hypersonic cruise missile** developed by **China**.
- It is the **world's first** and so far **only operational land-based scramjet-powered hypersonic missile**.
- CJ-1000 is **mounted** on a highly mobile 10-wheel diesel-electric **hybrid transporter-erector-launcher**.
- It is estimated to have a **range** of at least **2,500 km**.
- Scramjet-powered missiles represent a more **advanced but technically demanding** path **than hypersonic glide vehicles**, such as China's DF-17 and Russia's Avangard.

Why Are Scramjet Missiles More Dangerous Than Glide Vehicles?

- **Scramjet missiles** have a **cruise altitude** of **20 km to 30 km**, which is **much lower than** that of **glide vehicles**. Glide vehicles typically fly at an altitude of approximately 60 km to 80 km.
- **For enemy air defence radar** systems, the **lower a missile flies**, the **more difficult it is to detect** and respond to.
- Furthermore, the **scramjet engine operates throughout the cruise and terminal phases**, providing **greater manoeuvrability and accuracy** against targets.
- **Glide vehicles**, in contrast, **rely largely on inertia during the final approach**.

Source: WION

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