

STAR Missile

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STAR Missile Latest News

STAR ends India's dependence on expensive imported target systems for missile training.

About STAR Missile

- The **Supersonic TARget (STAR)** missile is an **indigenous, high-speed missile** designed to **simulate realistic threats for training** India's armed forces.
- It was **developed by the Defence Research and Development Organisation (DRDO)**.
- Unlike combat missiles, STAR **doesn't aim to destroy enemy targets**—instead, it **mimics the enemy**, helping our forces **practice interception in real-time**.
- The STAR missile is engineered to **simulate the behavior of modern supersonic anti-ship missiles and cruise missiles**.
- To serve different combat needs, DRDO is developing STAR in **two variants**:
 - **Air-Launched STAR: Carried by fighters** like the LCA Tejas, it **simulates air-to-air and air-to-ground strikes**, including Anti-Radiation and Anti-AWACS roles.

- **Ground-Launched STAR: Truck-mounted and mobile**, this version can be deployed from shorelines or remote zones without expensive infrastructure, making it highly versatile for Navy and Army drills.

STAR Missile Features

- At the heart of STAR is a **two-stage propulsion** system:
 - **Solid booster rocket for quick lift-off**
 - **Liquid Fuel Ramjet (LFRJ)** for sustained supersonic flight
- **Max Speed: Mach 1.8 - 2.5.**
- It operates across a wide **altitude range** from **100 meters to 10 kilometers**, with an **operational range of 55 to 175 kilometers**.
- With **flight times** spanning **50 to 200 seconds**, it can **simulate various attack scenarios, flying as low as 12 feet** above water to **mimic modern sea-skimming missiles** or plunging from over 30,000 feet to replicate high-altitude attacks.
- High Manoeuvrability: **Simulates zig-zag, evasive enemy movement.**
- Tracking by Defence Systems: Test radar, missile interception, and tracking systems.
- **Safe Recovery or Detonation:** Depending on mission type.

Source: **BT**

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