

Akash Missile System

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Akash Missile System Latest News

India is learnt to have pitched for the supply of the Akash missile system to Brazil, as the Defence Minister recently held wide-ranging talks with Brazilian Vice-President Geraldo Alckmin in New Delhi.

About Akash Missile System

- It is a **short-range surface-to-air missile (SAM) system**.
- It is designed to **protect vulnerable areas**, points, and assets **from a range of aerial threats**, including fighter aircraft, cruise missiles, drones, and helicopters.
- It was indigenously designed and **developed by India's Defence Research and Development Organisation (DRDO)** and is produced by Hyderabad-based Bharat Dynamics Ltd. (BDL).
- It is **currently in service with the Indian Air Force (IAF) and the Indian Army**.

Akash Missile System Features

- The **system features a launcher, a missile, a control centre, an integral mission guidance system, a multifunctional fire control radar, a system arming and explosion mechanism, a digital autopilot, C4I** (command, control, communication, and intelligence) centres and supporting ground equipment.
- It can **simultaneously engage multiple targets in Group Mode or Autonomous Mode.**
- The missile is 5.87 meters long, 350 millimeters in diameter, and weighs 710 kilograms.
- It features a **solid-fuel, ramjet propulsion** system, capable of reaching speeds of Mach 2.5 to 3.5 (up to 4,200 km/h).
- It covers a **range of 4.5 km to 25 km** and **can engage aerial threats** flying **between 100 meters and 20 kilometers in altitude.**
- It is a **fully mobile system**, effective at engaging multiple targets simultaneously with a **kill probability of up to 99% with a salvo of two missiles.**
- Its **sophisticated Rajendra radar** can track numerous targets and guide multiple missiles concurrently.
- It is **fully automatic**, features **built-in electronic counter measures**, and is mobile across different terrains.

Source: TH

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