



supersonic drone technology

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AI Overview

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Supersonic drone technology includes:

Rotating Detonation Rocket Engine (RDRE)

A new engine that uses a detonation wave to propel a craft. The RDRE is 15% more efficient than conventional rocket engines and could theoretically travel farther on the same amount of fuel.

Venus Aerospace

A Houston-based startup that successfully tested its first supersonic drone in February 2024. The drone was powered by a hydrogen peroxide monopropellant engine and reached a top speed of Mach 0.9. Venus Aerospace plans to develop a larger 12-foot test vehicle that should be ready for testing by 2025.

Lockheed D-21

An American supersonic reconnaissance drone that was designed to carry a high-resolution photographic camera over enemy airspace. The D-21 had a maximum speed of over Mach 3.3 and an operational altitude of 90,000 feet.

Saab

A company that has conceptualized a supersonic, stealthy loyal wingman drone. The drone could be used for a variety of purposes, including striking threat radar, communications, and defensive systems.

Sonikair

A company that uses a ramjet engine technology to deliver efficient flight up to Mach 3. The engine is regeneratively cooled and can withstand

Supersonic drone flies with revolutionary detonation engine

Apr 1, 2024 — View gallery - 3 images. A supersonic drone that will be propelled by a...

New Atlas

Superfast drone fitted with new 'rotating detonation rocket engine' ...

Apr 10, 2024 — The drone flew 10 miles (16 km) at Mach 0.9 — over 680 miles per hour...


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Lockheed D-21 - Wikipedia

The Lockheed D-21 is an American supersonic reconnaissance drone. The D-2...

Wikipedia

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sustained operation over a wide speed range. 

The US Air Force has also used remote-controlled supersonic jets for testing air defenses, reconnaissance, and as weapons. 


Generative AI is experimental.



The first flight of Venus Aerospace's supersonic flight test drone has been completed, dropped at an altitude of 12,000ft. The eight foot, 300lb drone accelerated to a top speed of Mach 0.9, flying for 10 miles. It was powered by a **hydrogen peroxide monopropellant engine** at 80% thrust in order to not exceed Mach 1. Apr 5, 2024



Unmanned Systems Technology

<https://www.unmannedsystemstechnology.com> › 2024/04 

Supersonic Drone Hits Top Speed of Mach 0.9 in Test Flight



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Supersonic drone flies with revolutionary detonation engine

Apr 1, 2024 — When Venus Aerospace's **aircraft** does go **supersonic** on a later date, it will be powered by a Rotating Detonation Rocket Engine (RDRE). **Supersonic** ...



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Exosonic Making Supersonic Drones and Planes

Sep 4, 2024 — Exosonic is startup developing **supersonic UAVs** to support the aerial target, collaborative combat aircraft, and adversary air training missions.



Fanatical Futurist

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Meet Arrow the world's first and only supersonic drone

It owes its styling to its carbon fiber monocoque, its single shell design. It's apparently lightweight enough to **fly more than 4,800 km** with a maximum take-off ...



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AVIC WZ-8

According to the manufacturer claims, the drone can reach hypersonic speed at the cruise altitude of 50,000 metres (160,000 ft), at near-space level.



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Supersonic Spy Drone

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The War Zone

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This Is Saab's Concept For A Supersonic, Stealthy Loyal ...

Feb 10, 2024 — A low-observable, high-speed **drone** concept is an intriguing addition to the growing field of loyal wingman contenders.



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