

About

Boom Supersonic is redefining commercial air travel by bringing sustainable, supersonic flight to the skies. Boom's historic commercial airliner, Overture, is designed and committed to industry-leading standards of speed, safety, and sustainability. Overture will be net-zero carbon, capable of flying on 100% sustainable aviation fuels (SAF) at twice the speed of today's fastest passenger jets. Overture's order book, including purchases and options, stands at 70 aircraft, and Boom is working with the United States Air Force for government applications of Overture. Named one of TIME's Best Inventions of 2021, the Boom XB-1 demonstrator aircraft rolled out in 2020, and its carbon neutral flight test program is underway.

Founder & CEO: Blake Scholl

Year Founded: 2014

Headquarters: Denver, CO

Funding: \$270 million as of 5/1/2021

Select Investors: Bessemer Ventures, Prime Movers Lab, Emerson Collective, Celesta Capital, American Express

Customers: United Airlines, Japan Airlines, United States Air Force

Aircraft

Overture

What: The world's fastest airliner, designed and committed to industry-leading standards of speed, safety, and sustainability.



Overture Milestones:

2025 Rollout

2026 First flight

2029 Passenger flights

Capacity: 65-88 passengers

Sustainability: Net-zero carbon

Cruising Altitude: 60,000 feet

Routes: 500+

Length: 205 feet

Speed: Mach 1.7

Range: 4250 NM (4888 miles)

Aircraft



XB-1

What: The world's first independently developed supersonic jet.

Purpose: A "demonstrator" airplane, XB-1 is a piloted test aircraft built to prove key technologies and materials for efficient supersonic flight.

Engine: 3 GE J85-15 Engines

Length: 71 feet

Rollout: October 7, 2020

Ground testing: 2021

Flight testing: 2022

Customers



Airlines:

United will purchase 15 of Boom's Overture airliners, once Overture meets United's demanding safety, operating and sustainability requirements, with an option for 35 more aircraft.

Japan Airlines has pre-ordered 20 Overture aircraft.

Government:

Boom and the United States Air Force are developing custom Overture configurations for government executive transport.

Partners



Rolls-Royce:

In collaboration with Boom engineers, Rolls-Royce is developing a custom propulsion system for Overture that reduces community noise, optimizes fuel efficiency, and accommodates 100% sustainable aviation fuel.

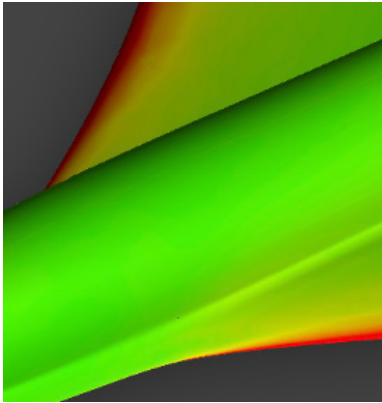
Collins Aerospace:

Boom and Collins engineers are developing highly versatile systems to maximize Overture's efficiency at supersonic speeds as well as its stability at takeoff and landing.

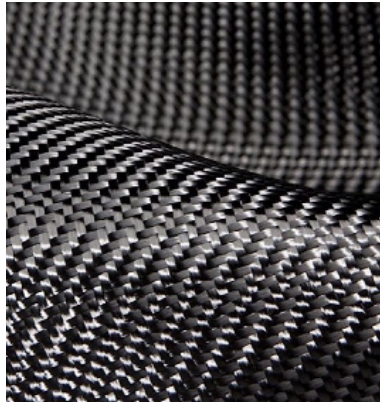
Amazon Web Services (AWS):

AWS unlocks previously unfathomable capabilities in testing and experimentation, powering millions of sophisticated simulations and iterations.

Technology



Aerodynamics: Through a combination of computer simulations and wind-tunnel testing, the designs of Overture and XB-1 balance low-speed stability with high-speed efficiency.



Materials: Overture and XB-1 feature advanced, thermally-stable carbon composite airframes, which are easier to fabricate and maximize fuel efficiency.



Propulsion: The state-of-the-art inlets on both Overture and XB-1 provide stable, consistent airflow to the engines across a variety of speeds and conditions.

Environment & Noise

Commitments and Affiliations: Boom is a member of key organizations bringing together leaders from business, government, and nonprofit to protect the planet.



Alternative Fuels: Overture will accommodate the use of 100% sustainable aviation fuels (SAF).

Takeoff and Landing Noise: Overture is designed with the latest noise-reducing technologies, ensuring no increase to existing noise contours. The overall impact of Overture on airport communities will be similar to the long-haul aircraft it replaces.

Sonic Boom: Overture will only fly at supersonic speeds over the ocean, eliminating community exposure to sonic booms.



The team

Our leaders come from major aerospace companies, Fortune 500 companies, and world-changing startups: Boeing, Gulfstream, Yahoo, Peloton, GE, Amazon, and more.

Our team has contributed to over 300 air and spacecraft programs and includes:

- 30 licensed pilots
- 30+ U.S. patents
- 17 company founders
- 50+ contributors to supersonic programs

Our Board of Directors and Advisory Council comprise diverse leaders from Lockheed Martin, Boeing, FAA, IDEO, Waymo, Square Capital, and the Department of Defense.

Contact

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