BOOM

About

Boom Supersonic is transforming air travel with Overture, the world's fastest airliner, optimized for speed, safety, and sustainability. Serving both civil and government markets, Overture will fly at twice the speed of today's airliners and is designed to run on 100% sustainable aviation fuel (SAF). Symphony™, a Boom-led collaboration with industry leaders, is the propulsion system that will power Overture. Overture's order book, including purchases and options from American Airlines, United Airlines, and Japan Airlines stands at 130 aircraft. Boom is working with Northrop Grumman for government and defense applications of Overture. Suppliers and partners collaborating with Boom on the Overture program include Collins Aerospace, Eaton, Florida Turbine Technologies (FTT), a business unit of Kratos Defense & Security Solutions, Inc., GE Additive, Safran Landing Systems, StandardAero and the United States Air Force.

For more information, visit https://boomsupersonic.com

Founder & CEO: Blake Scholl
Year Founded: 2014
Headquarters: Denver, CO
Manufacturing Site: Greensboro, NC
Funding: $270 million as of 5/1/2021
Select Investors: Bessemer Ventures, Prime Movers Lab, Emerson Collective, Celesta Capital, American Express
Customers: American Airlines, United Airlines, Japan Airlines, United States Air Force

Aircraft

Overture

The fastest airliner, optimized for speed, safety and sustainability.

Overture Milestones:
2026 Rollout
2027 First flight
2029 Expected type certification

Capacity: 65-80 passengers
Sustainability: Net-zero carbon
Altitude: 60,000 feet
Routes: 600+

Length: 201 feet
Wingspan: 106 feet
Speed: Mach 1.7
Range: 4250 NM (4888 miles)

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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
First Flight: 2023

Customers

American Airlines · UNITED · JAL JAPAN AIRLINES · U.S. AIR FORCE

Airlines:
Overture's commercial order book, including purchases and options from American Airlines, United Airlines and Japan Airlines, stands at 130 aircraft.

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

Suppliers and Partners

NORTHROP GRUMMAN · Collins Aerospace · SAFRAN · EATON Powering Business Worldwide · AIR COMPANY

Northrop Grumman
Northrop Grumman is partnering with Boom to adapt Overture for government and military missions. Together, the two aerospace companies will explore new use cases for the U.S. government and its allies.

Collins Aerospace
Boom and Collins are collaborating on major aircraft systems for Overture including Ice Protection and Air Data Systems.

Safran Landing Systems
Safran Landing Systems is collaborating with Boom to co-develop landing systems for Overture.

Eaton
Together, Boom and Eaton are developing the Overture fuel distribution, measurement and inerting systems.

Air Company
Boom has partnered with AIR COMPANY, who will provide 5 million gallons of AIRMADE™ SAF per year over the duration of the Overture flight test program in North Carolina.

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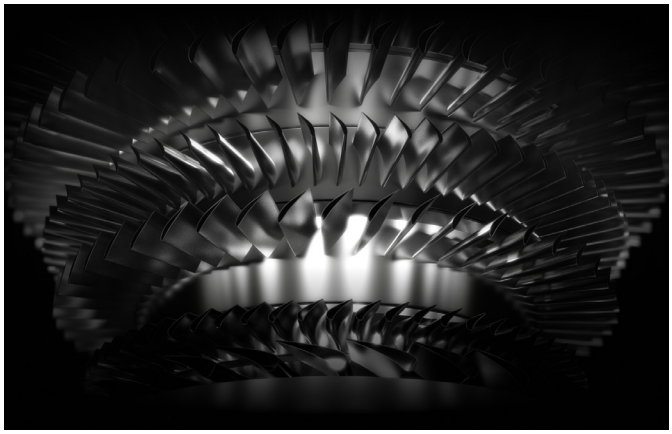
Symphony Propulsion System



Symphony is the propulsion system powering the Overture supersonic aircraft. Boom is leading a team of best-in-class partners to design, develop, and optimize the engine for sustainable and economical supersonic flight. With Florida Turbine Technologies (FTT) a business unit of Kratos Defense & Security Solutions, Inc. for engine design, GE Additive for manufacturing and StandardAero for maintenance. Boom is leveraging the most-advanced technology available while maximizing cost efficiencies at every stage to bring the benefits of supersonic travel to more passengers in more places.

Key Engine Features

Architecture: Twin-spool, medium-bypass turbofan engine, no afterburner
Thrust: 35,000lbs at takeoff
Fuel: Optimized for 100% Sustainable Aviation Fuel
Noise-reduction: Single-stage fan designed for quiet operation
Turbine: Passively-cooled high-pressure turbine
Additive manufacturing: For low weight, low part count, and reduced assembly costs
Certification: Compliant with FAA and EASA Part 33 requirements

Symphony Suppliers and Partners

FTT | KRATOS GE Additive StandardAero

Florida Turbine Technologies (FTT)
Boom has selected Florida Turbine Technologies, a business unit of Kratos Defense & Security Solutions, as its engine design team. FTT has leading supersonic engine design expertise, including key engineers among the team responsible for the design of the F-119 and F-135 supersonic engines that power the F-22 and F-35.

GE Additive
GE Additive will be collaborating on the Symphony program. Symphony will benefit from GE Additive's proven track record of manufacturing and certifying additively manufactured engine components, enabling more streamlined development, reduced weight, and improved fuel efficiency.

StandardAero
StandardAero, one of the aerospace industry's largest independent maintenance, repair, and overhaul (MRO) providers will ensure that Symphony is designed for maintainability. Boom's collaboration with StandardAero aims to deliver reliable and economical operations for the life of the aircraft. Boom will also benefit from StandardAero's experience as an assembler of supersonic engines.

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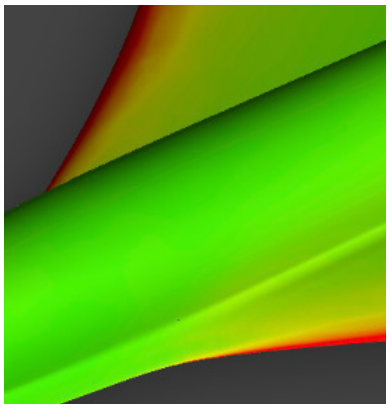
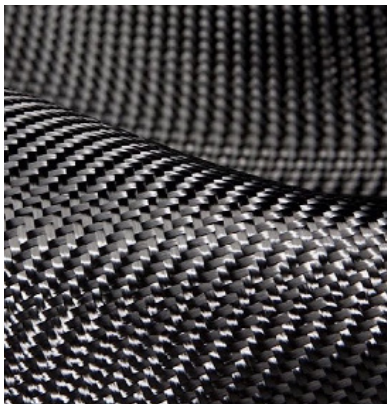
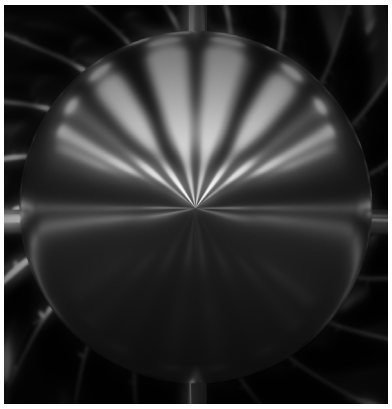
Technology



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.

Manufacturing

The Overture Superfactory is a state-of-the-art manufacturing facility located on a 62-acre campus at the Piedmont Triad International Airport. This site will house the final assembly line, as well as test facility, and customer delivery center for Boom's flagship supersonic airliner, Overture. The building will be LEED certified in keeping with Boom's commitment to environmental sustainability.

In January 2023, Boom celebrated the next phase of construction beginning on the site of the Overture Superfactory. Overture production launch will commence in 2024 at the Superfactory, with rollout in 2026 and first flight in 2027.

Boom selected North Carolina because of its large skilled talent pool, access to good universities, community colleges, and technical schools, proximity to the Eastern Seaboard for supersonic flight testing over water and close proximity to several top-tier aerospace suppliers.

North Carolina's aerospace manufacturing sector has grown three-times faster than the national average over the past few years. The state is home to more than 200 aerospace companies and hundreds more in the aerospace supply chain. North Carolina was also recently recognized by CNBC as the Top State for Business in 2022, which reinforces our selection of the state to locate the Overture Superfactory.

Economic impact: $32B over 20 years
Jobs created: 2400+ by 2032
Facility size: 62-acre campus

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Sustainability

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

Carbon Neutral in 2021
Accounting for emissions across scopes 1, 2, and 3, Boom achieved carbon neutrality in 2021 through greenhouse gas (GHG) emissions reduction initiatives and high-quality carbon credits.

Net Zero by 2025
Boom strives to be an industry leader in setting carbon reduction targets and is targeting net zero carbon by 2025.

Advancing SAF
Boom takes a two-pronged approach to advance SAF: Participating in industry efforts to rapidly scale drop-in 100% SAF, and accelerating the development of future pathways and fuel specifications that will provide greater long-term benefits.

Partnering for Impact
Boom's approach to sustainability is based on partnering for systems change: mobilizing value and supply chains, collaborating with stakeholders across the global travel ecosystems, and leading advocacy to set new standards for aviation and travel.

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.

Leading Sustainable Travel
Convening industry leaders and sustainability experts to collaborate on sustainable travel solutions through the Sustainable Travel Forum and its annual Net Good Summit.

BOOM

The Team

Our leaders come from major aerospace companies, Fortune 500 companies, and world-changing startups: Boeing, Gulfstream, Yahoo, 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 Rolls-Royce, Lockheed Martin, Boeing, FAA, IDEO, Waymo, Square Capital, and the Department of Defense.

Contact

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