

## About

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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). The company has secured SAF offtake agreements from Dimensional Energy and AIR COMPANY, bringing its total to 10 million gallons of SAF per year for Overture’s net zero carbon flight test program. 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 Aernnova, Leonardo, Aciturri, Safran Landing Systems, Eaton, Collins Aerospace, and the United States Air Force.

Symphony™ is the propulsion system that will power Overture, a Boom-led collaboration with world-class partners including Florida Turbine Technologies (FTT), a business unit of Kratos Defense & Security Solutions, Inc., GE Additive and StandardAero. For more information, visit <https://boomsupersonic.com>

Photos and video available at <https://boomsupersonic.com/newsroom/media-assets>

**Founder & CEO:** Blake Scholl

**Year Founded:** 2014

**Headquarters:** Denver, CO

**Manufacturing Site:** Greensboro, NC

**Funding:** \$700 million, including \$400 million in equity fundraising

**Select Investors:** NEOM Investment Fund (NIF), Bessemer Ventures, Prime Movers Lab, Emerson Collective, Celesta Capital, American Express

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

## Aircraft

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### Overture

The world’s fastest airliner – optimized for speed, safety, and sustainability.



#### Overture Target Timeline

**2026:** Rollout

**2027:** First flight

**2029:** Type Certification

**Capacity:** 64-80 passengers

**Sustainability:** Net-zero carbon

**Altitude:** 60,000 feet

**Profitable Routes:** 600+

**Length:** 201 feet

**Wingspan:** 106 feet

**Speed:** Mach 1.7

**Max Range:** 4250 NM (7,871 KM)

## Aircraft

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### 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

**2020:** Rollout

**2021:** Systems integration

**2022:** Ground testing in Centennial, CO

**2023:** Flight testing in Mojave, CA

## Customers

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### 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.

## Overture Suppliers & Partners

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**Northrop Grumman:** Strategic partner for Overture defense variants

**Aernnova:** Design and build partner for the wing

**Leonardo:** Primary engineering lead for fuselage integration, design and build partner for fuselage sections

**Aciturri:** Design and build partner for the empennage

**Latecoere:** Overture and Symphony's electrical wiring interconnect system (EWIS) architecture supplier

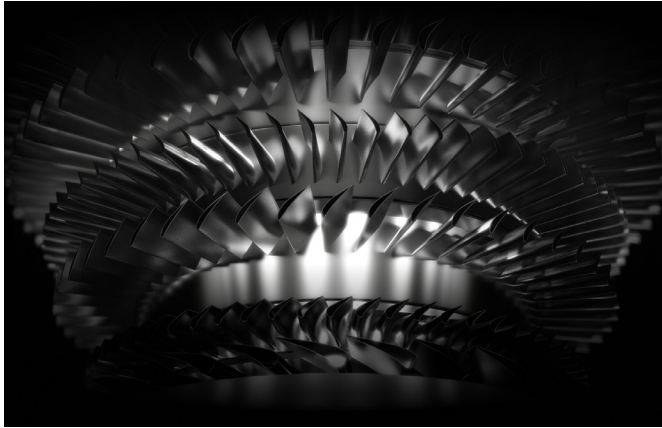
**Collins Aerospace:** Supporting Overture ice protection and air data systems

**Safran Landing Systems:** Supporting Overture landing systems

**Eaton:** Supporting Overture fuel and inerting systems

## Symphony Propulsion System

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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. Boom is working 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

- Two-spool, medium-bypass turbofan engine, no afterburner
- 35,000 lb thrust
- Optimized for 100% sustainable aviation fuel (SAF)
- Single-stage 72" fan
- Air-cooled, multi-stage turbine
- Additive manufacturing enables lightweight, low part count, and reduced assembly costs
- FAA Part 33 and EASA CS 33 compliant
- ICAO Chapter 14 noise levels
- Low-pressure compressor stages: 3
- High-pressure compressor stages: 6
- High-pressure turbine stages: 1
- Low-pressure turbine stages: 3

### Symphony Suppliers and Partners



#### Florida Turbine Technologies (FTT)

Boom has selected Florida Turbine Technologies, a business unit of Kratos Defense & Security Solutions, as its engine design team and initial production partner. FTT will develop the initial production units of the Symphony propulsion system for ground test, flight test and certification. 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. Boom has identified Jupiter, Florida as the base for initial production.

#### GE Additive

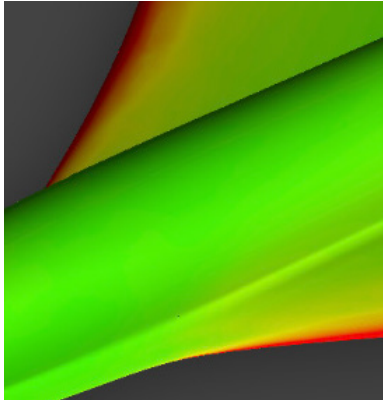
GE Additive will be collaborating on the Symphony program. Symphony will benefit from GE Additive's proven track record of manufacturing and certifying additively manufactured engine components, enabling more streamlined development, reduced weight, and improved fuel efficiency.

#### StandardAero

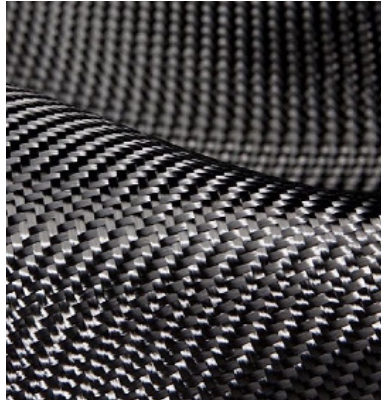
StandardAero, one of the aerospace industry's largest independent maintenance, repair, and overhaul (MRO) providers will ensure that Symphony is designed for maintainability. Boom's collaboration with StandardAero aims to deliver reliable and economical operations for the life of the aircraft. Boom will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

## Technology

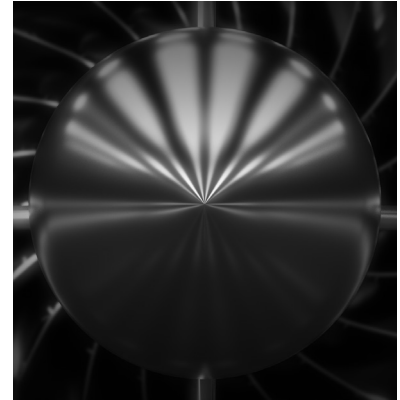
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**Aerodynamics:** Through a combination of computer simulations and wind-tunnel testing, the designs of Overture and XB-1 balance low-speed stability with high-speed efficiency.



**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

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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 start of construction on the Overture Superfactory, which will be completed in 2024, followed by production launch in 2025, 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



## Sustainability

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**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.

### SAF Offtake Agreements

Boom is building for a future of 100% sustainable aviation fuels (SAF) by partnering with Dimensional Energy and AIR COMPANY, suppliers of net zero carbon SAF. To date, Boom has secured 10 million gallons of SAF through the duration of the Overture flight test program.

### 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 Net Good Summit.



## The Team

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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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