Boom Supersonic

Company Information

Founder & CEO	Blake Scholl
Year Founded	2014
Headquarters	Denver, CO
Overture Manufacturing Site	Greensboro, NC
Funding	Nearly $1B from investment
Select Investors	Darsana Capital Partners, Altimeter Capital, ARK Invest, Bessemer Venture Partners, Robinhood Ventures and Y Combinator

Overture: The World's Fastest Airliner—Optimized for Speed, Safety, and Sustainability

Specifications

Capacity	60-80 passengers
Sustainability	Optimized for up to 100% SAF
Cruising Altitude	60,000 feet
Profitable Routes	600+
Length	201 feet
Wingspan	106 feet
Speed	Mach 1.7
Max Range	4,250 NM (7,871 KM)

Airlines

Order Book	Overture's order book stands at 130 aircraft, including orders and pre-orders from American Airlines, United Airlines, and Japan Airlines.
American Airlines	American Airlines made a deposit on up to 20 aircraft, with an option for 40 more, in August 2022. With this order, American is poised to have the world's largest supersonic fleet.
United Airlines	In June 2021, United became the first U.S. airline to sign an aircraft purchase agreement with Boom Supersonic for 15 aircraft with an option for 35 more.
Japan Airlines	In 2017, Japan Airlines (JAL) and Boom announced a strategic partnership to bring commercial supersonic travel to passengers with an option for 20 aircraft.

Overture Superfactory: The first Supersonic Airliner Factory in the United States

Final Assembly Line for Overture

Located at the Piedmont Triad International Airport in Greensboro, NC, the first assembly line will produce 33 Overture supersonic aircraft annually. A planned second assembly line will double aircraft production to 66 each year.

XB-1: The World's First Independently Developed Supersonic Jet

XB-1 is Boom's technology demonstrator aircraft and the first civil supersonic jet built in America. First taking flight in March 2024, XB-1 completed a series of flight tests in Mojave, CA, culminating in successful supersonic test flights in January and February 2025.

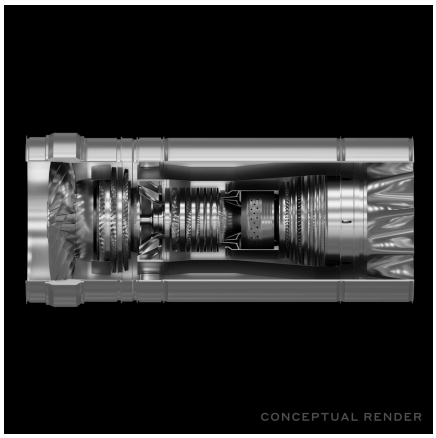
Specifications

Engine	3 GE J85-15 Engines
Max thrust	12,300 pounds of force (lbf)
Length	62.6 feet
Wingspan	21 feet

Milestones

2020	Rollout
2021	Systems integration
2022	Ground testing in Centennial, CO
2023	Relocation and ground testing in Mojave, CA
2024	XB-1 completes 10 test flights in Mojave, CA
2025	XB-1 achieves supersonic flight in Mojave, CA
2025	Boom partners with NASA to capture Schlieren imagery of XB-1 breaking the sound ttbarrier
2025	XB-1 demonstrates Mach cutoff, breaking the sound barrier six times without creating an audible sonic boom
2025	XB-1 flight test program concludes, following 13 successful test flights and six supersonic runs
2025	XB-1 comes home to Boom HQ in Denver, CO

Symphony: The Purpose-Built Turbofan Optimized for Supersonic Flight



Key Engine Features

40,000 lb thrust class
72” diameter hollow-core fan blades
Medium bypass ratio
Vertically integrated manufacturing
Compatible with up to 100% Sustainable Aviation Fuel (SAF)
Compliant with global noise standards
FAA Part 33 / EASA CS-E certified

Engine Architecture & Dimensions

Overall size: 42 ft length × 84 in diameter
12 ft supersonic inlet with auxiliary intake
11 ft turbofan
19 ft variable-geometry exhaust with integrated thrust reverser

Turbomachinery Configuration

Single stage fan
Three stage low-pressure compressor (LPC)
Six stage high-pressure compressor (HPC)
Single stage high pressure turbine (HPT)
Three stage low-pressure turbine (LPT)

Superpower: The Natural Gas Turbine Enabled by Supersonic Technology

The same supersonic technology drives both the Superpower turbine and the Symphony jet engine: an all-new engine core designed for sustained and efficient high power output, even under challenging thermal conditions. Superpower is designed and built in the United States.

Key Features

42 MW of ISO-rated power in a shipping-container-sized package

Full rated output in ambient temperatures exceeding 110°F

Waterless operation, enabling deployment in hot and arid environments

Runs on clean natural gas with backup diesel capability

Dramatically better real-world price performance when compared to other aeroderivative engines

Launch Customer

Crusoe	Superpower launches with a substantial order book valued over $1.25B. Crusoe, an energy-first AI infrastructure leader, ordered 29 Superpower turbines, which will generate 1.21GW of new energy capacity for its advanced AI datacenters.