Shield AI

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X-BAT

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A New Era of Airpower

X-BAT is the world's first AI-Piloted VTOL fighter jet. It completely reimagines airpower – from training and logistics to operations and operating costs. This marks the greatest transformation in military aviation since the first airplanes launched and landed from ships 115 years ago. With a 2,000+ NM range, it can be launched from a variety of ships, islands, austere land sites – no runways required, ever.

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The World's First AI-Piloted VTOL Fighter Jet. Nothing Else Like It.

VTOL + Long-Range

Operate anywhere. Reach everywhere. Vertical takeoff and landing meets 2,000+ NM of long range multi-mission dominance.

All the Power You Need

Proven fighter jet engine means electrical power to run electronic attack payloads and other 5th, 6th gen sensors and electronic warfare payloads.

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Pick Your Mission

Air superiority, counter-air, precision land/maritime strike, suppression of enemy air defenses, EW, and ISR.

Powered by Hivemind

Autonomy at the edge. Shield AI's combat-proven AI pilot maneuvers X-BAT. Built to fly and fight in teams of X-BATs, it also operates in GPS- and comms- jammed environments.

3:1 Expeditionary Footprint

Three X-BATs fit in the deck space of one legacy fighter, dramatically increasing sortie generation and operational tempo.

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Earth is Ou

Now Flying
All Routes



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ur Runway

We lose more aircraft on the ground than in the skies. X-BAT solves this problem by launching from anywhere. With Earth as our runway, X-BAT creates infinite, untrackable dilemmas for our adversaries. It also means no large, fixed bases, which are expensive and regularly monitored by adversarial ISR and satellites.



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Create Endless Dilemmas for Adversaries

X-BAT will serve as the leading edge of a distributed, unmanned fires network — capable of launching and recovering from ships, remote islands, or austere forward bases while eliminating dependency on traditional infrastructure.



NAVAL SHIPS

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COVERT DEPLOYMENT



MOBILE/EXPEDITIONARY



AUSTERE LAND BASES

LRV



Launch and Recovery Vehicle

The LRV delivers ground survivability through rapid mobility. With its thrust-vectored engine, X-BAT launches and recovers vertically to the LRV with precision — executing low-heat landings made possible by reduced fuel burn, controlled descent profiles, and an integrated blast deflector for ground or ship operations.

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From Road to Air in Minutes

01 02 **03** 04 05 06

X-BAT TRANSITIONS TO HORIZONTAL POSITION

01 02 03 **04** 05 06

DECELERATES AND TRANSITIONS TO VERTICAL FLIGHT

01 **02** 03 04 05 06

LRV LAUNCHES X-BAT STRAIGHT UP

01 02 03 04 **05** 06

MAINTAINS CONTROLLED DESCENT TOWARD FLIGHT DECK



01 02 03 04 05 06

LRV TRANSITIONS TO VERTICAL POSITION

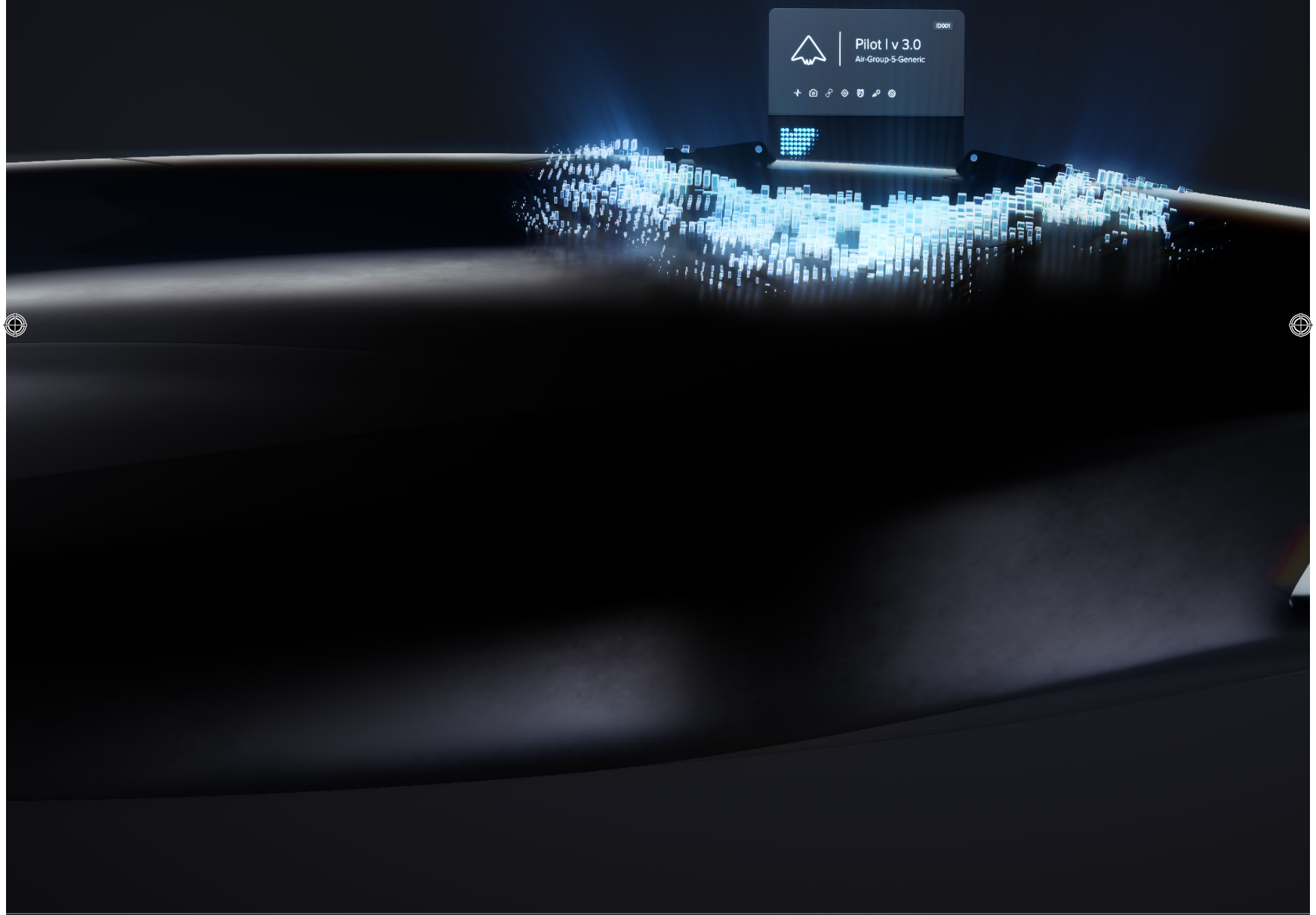


01 02 03 04 05 **06**

CONTACTS LRV AND ENGAGES LATCH

Powered by

HIVEMIND



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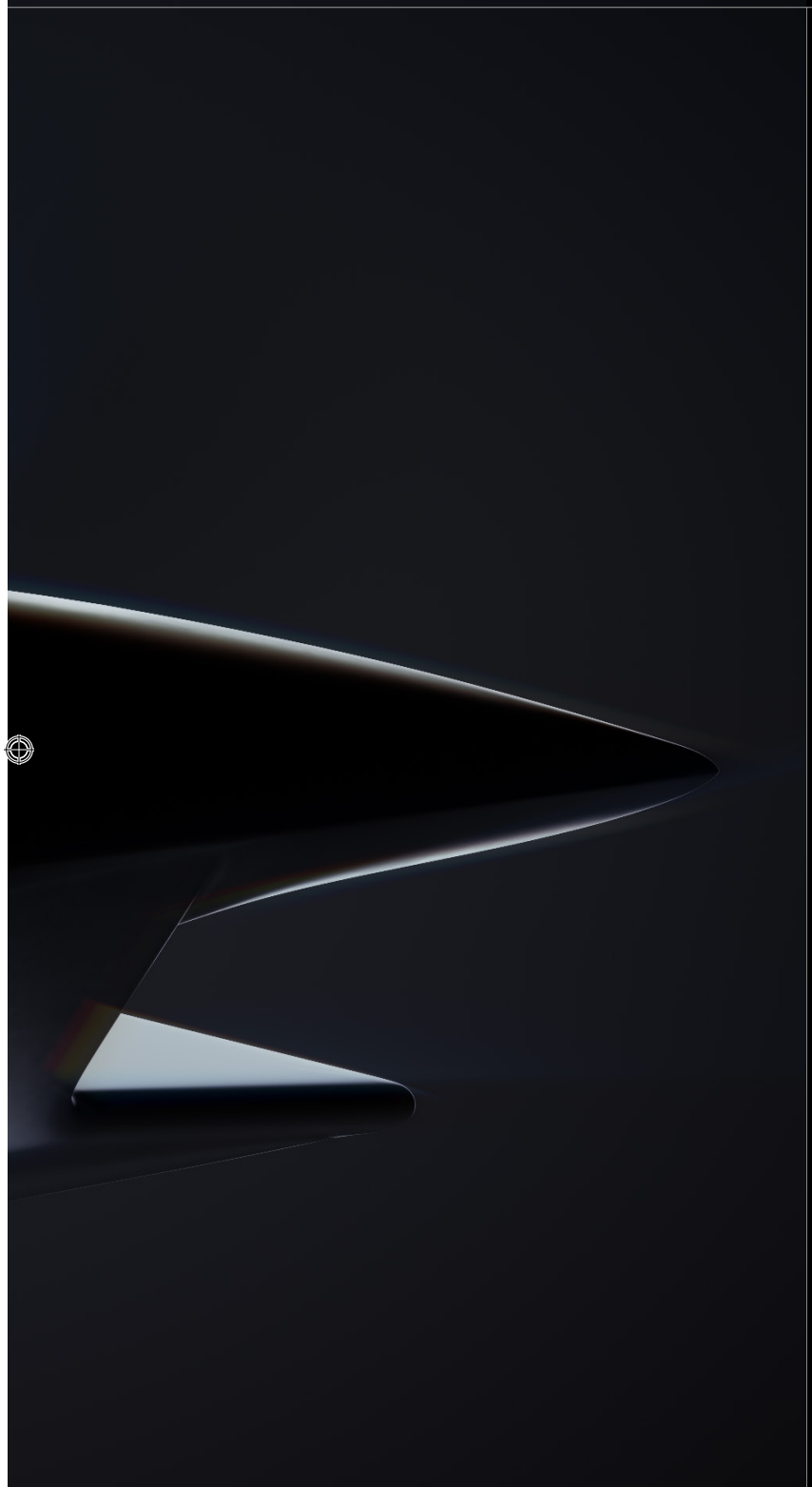

01 02 03 04

AI-Powered Mission Autonomy

Hivemind unlocks AI-powered mission autonomy for X-BAT. Resilient execution in denied, degraded, or disconnected conditions — no GNSS, no comms, no human input required.

01 02 03 04

Intelligent, Collaborative X-BAT Teams

A single commander flies a team of N number of X-BATs to autonomously execute the mission. Hivemind's open architecture design ensures X-BATs plug-and-play into current and future Navy and Air Force operations.

01 02 03 04

Machine Speed OODA Loops

Colonel Boyd would be proud. Autonomous platform and payload task execution combined with machine-speed decisions at the tactical edge. Observe, orient, decide, and act in milliseconds.

01 02 03 04

Combat-Proven Autonomy

Operationally validated autonomy since 2019 and deployed on dozens of platforms. Real-world deployment on the most highly contested modern battlefields. Hivemind is the autonomy of choice for U.S. and allied militaries.

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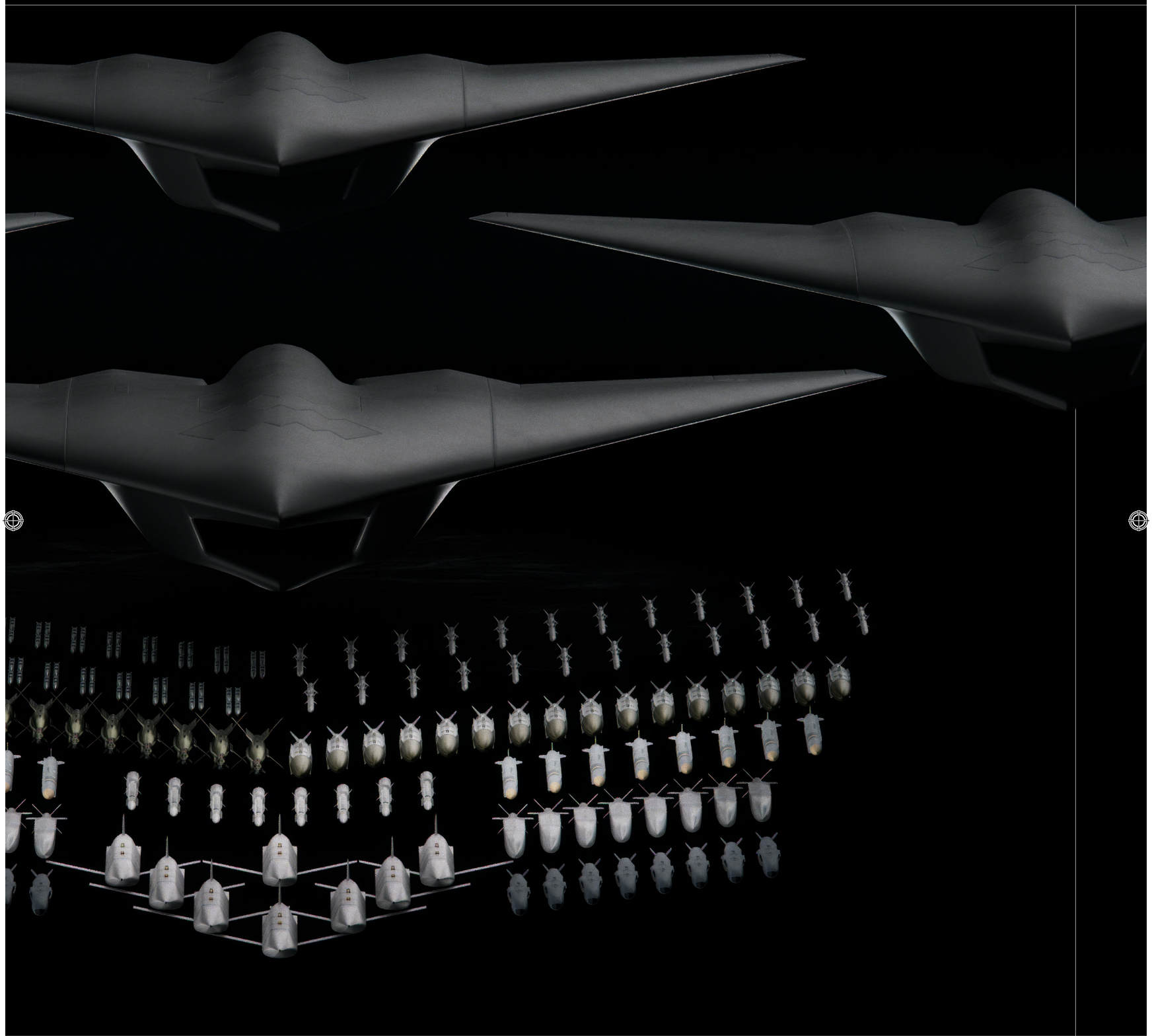
Fly Quietly, but Carry Big Sticks

Multi Role Fighter + EW



X-BAT can carry both air-to-air and air-to-surface weapons in its internal bays. It can also carry large strike weapons on its external hardpoints.

Its sensor suite provides the full spectrum of active and passive air-to-air, air-to-ground, and air-to-surface modes.



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X-BAT



"Hauls ass and sips gas."

- FORMER TOP GUN AVIATOR

>4g	11.9 m	>2,000 NM	>15,240 m
MANEUVER LOAD FACTOR	WINGSPAN	MAXIMUM RANGE	CEILING

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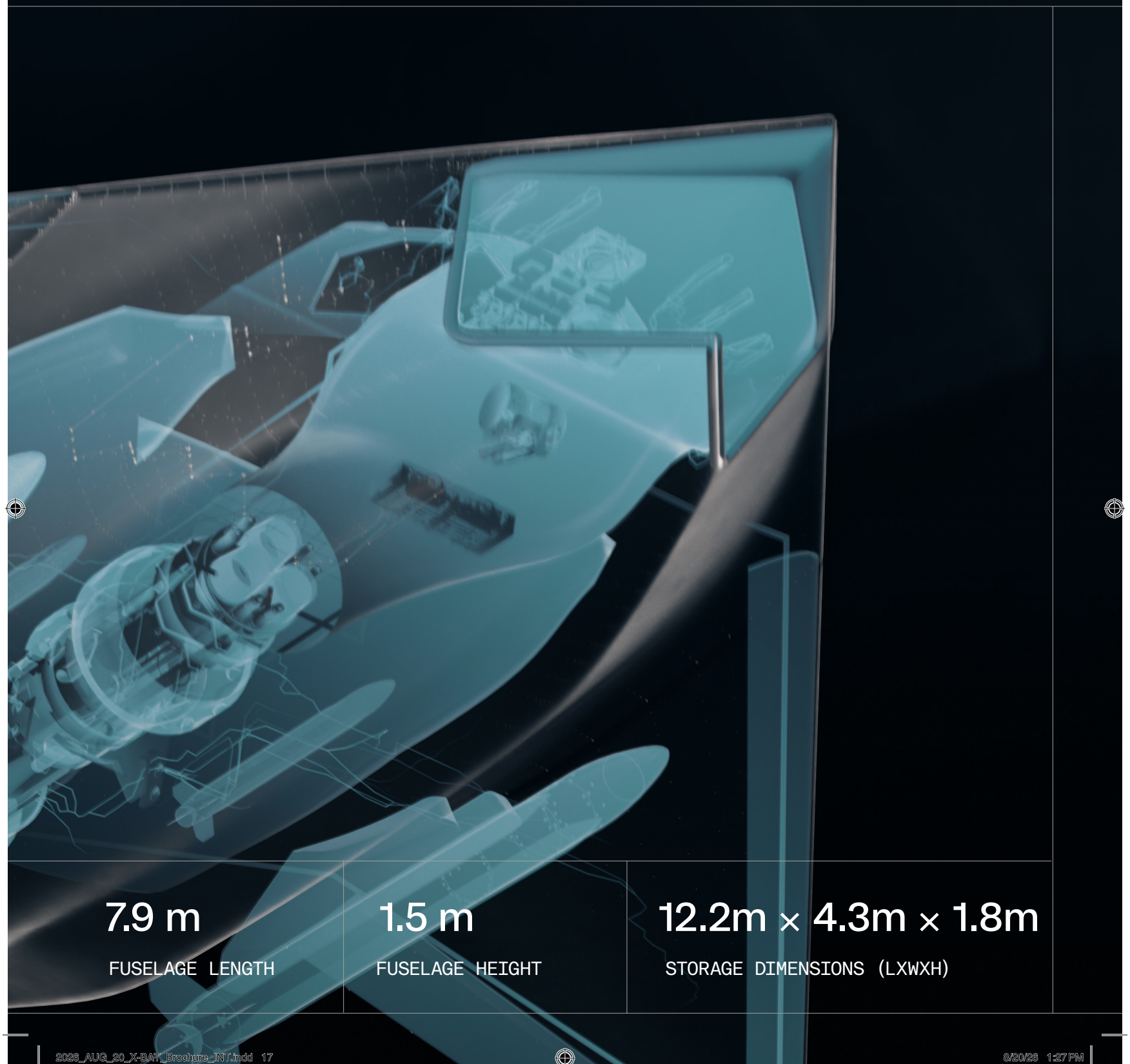

7.9 m	1.5 m	12.2m × 4.3m × 1.8m
FUSELAGE LENGTH	FUSELAGE HEIGHT	STORAGE DIMENSIONS (LXWXH)

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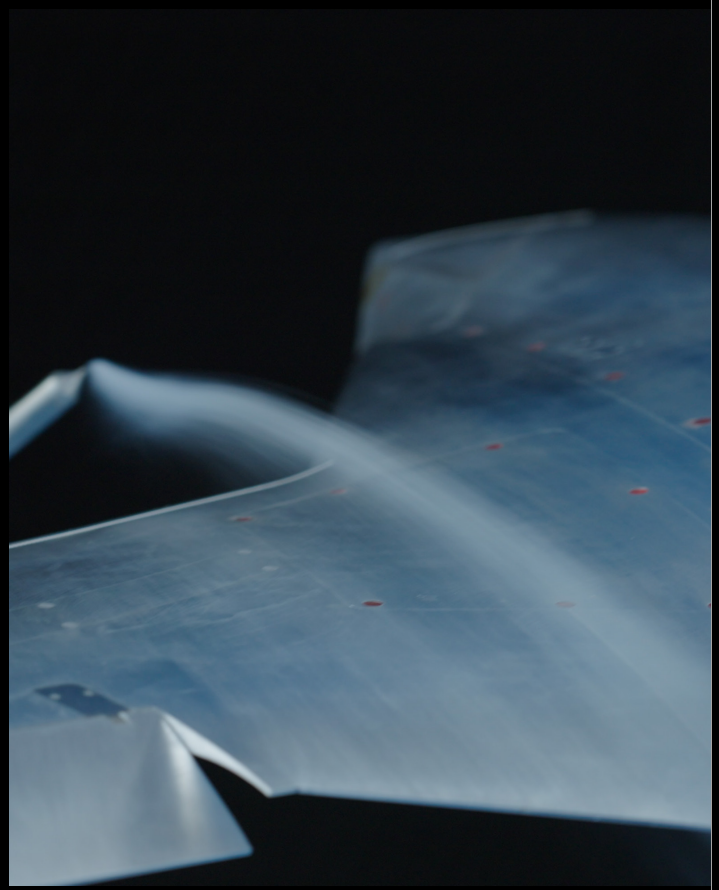
ENGINE TESTING



RADAR CROSS SECTION TESTING



WIND TUNNEL TESTING

First Flight 2026. Production 2029.

The future of autonomous airpower is not a concept — it is being built right now. In eighteen months, X-BAT has progressed through wind tunnel, pole, and engine testing, with the structural pathfinder in fabrication.

With first VTOL flights scheduled for 2026 and mission capability by 2028, X-BAT is proving that speed, autonomy, and ingenuity will redefine airpower.



THE GREATEST VICTORY REQUIRES NO WAR

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