

# GE Honda Aero Engines

HF120<sup>®</sup> Turbofan Engine

The bottom half of the page is decorated with two large, solid brown, wavy shapes that resemble stylized waves or the profile of an engine nacelle. The top wave starts wide on the left and tapers towards the right. The bottom wave starts narrow on the left and widens towards the right. These shapes are set against a plain white background.

A dark, high-contrast photograph of a jet engine component, likely a compressor or turbine section, with various bolts and curved surfaces visible. The lighting is dramatic, highlighting the metallic textures and complex geometry of the part.

**FL450  
ADVANCED  
SILENT  
TOUGH  
EFFICIENT  
RELIABLE**

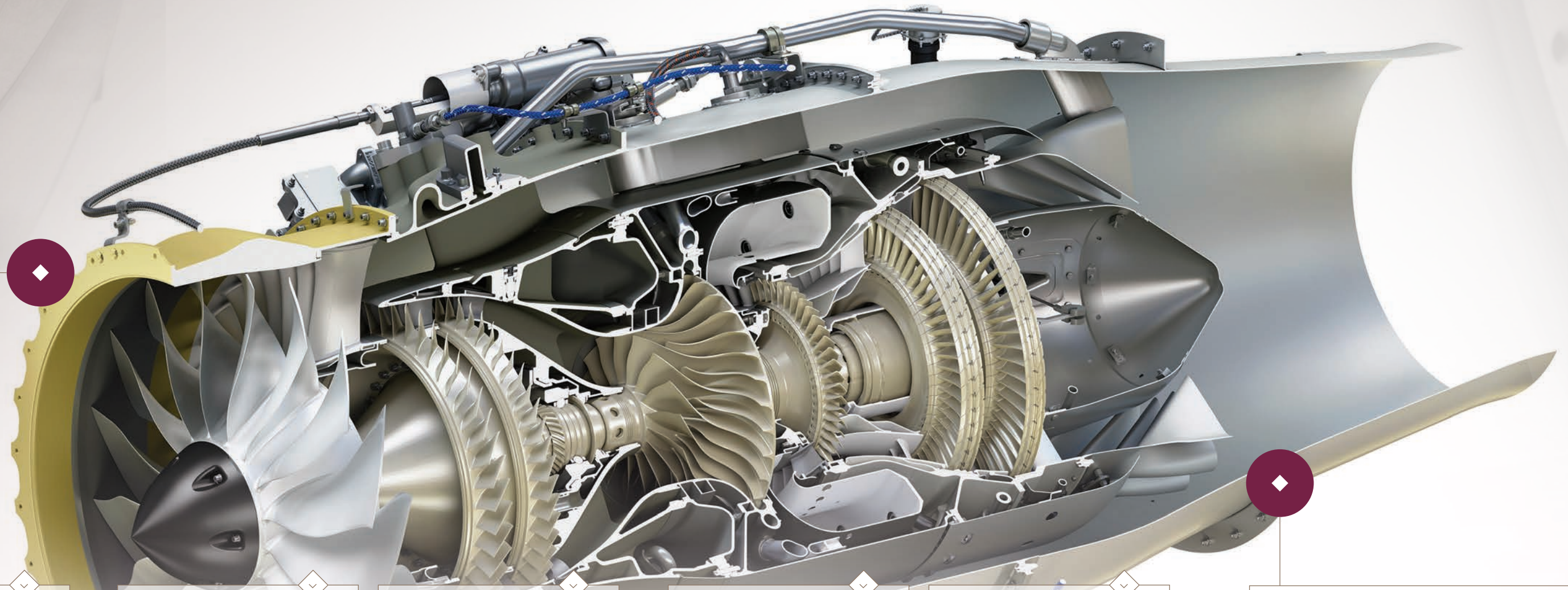
Soar above the  
standard and  
experience an engine  
that lets you fly  
with confidence.

Accelerating Innovation:

HF120<sup>®</sup> Turbofan Engine

# EXPLORE THE HF120<sup>®</sup> ENGINE

DESIGNED FOR YOU TO FLY FASTER, SAFER, AND HIGHER THAN EVER BEFORE.



## FL450

### CLIMB HIGHER

The HF120 enables effortless climb to FL450 and beyond. Its high fan and core pressure ratio provide increased aircraft speed and reduced climb time to higher cruising altitudes. With a low thrust lapse rate, the HF120 engine allows for best in class climb nearing 4,000 feet per minute and reduces time to climb by more than 40%.

## Advanced

### EXPERIENCE TOMORROW'S TECHNOLOGY

Created from decades of research and development, the HF120 is the vanguard for experiencing the future of modern aviation. A wide-chord, swept titanium blisk fan with composite fan outer guide vanes and the use of innovative turbine blade and combustor materials make the HF120 tomorrow's engine.

## Silent

### SOAR WITHOUT THE NOISE

Smart placement of the rotor dynamic resonant frequencies outside of the engine taxi and flight settings minimizes unwanted cabin noise to deliver an immersive flight experience. Tight tolerance controls and exceptional build quality deliver low fan and core vibration levels offering you a remarkably smooth and quiet ride.

## Tough

### RIDE WITH CONFIDENCE

Setting new standards for durability and efficiency, superalloys used in the hot section permit a higher operating temperature with extended parts life. All HF120s are monitored closely via proven large aircraft engine prognostic systems to minimize downtime and enable longer uninterrupted service.

## Efficient

### USE EVERYTHING

The HF120 uses unique airblast fuel nozzles to provide fuel atomization that minimizes fuel burn. Laser drilled combustor liner holes ensure minimum pressure drop across the combustor, enabling optimum transfer of compressor energy. As a result of this innovation, the HF120 emits significantly low amounts of NOx, CO, and HC.

## Reliable

### INNOVATION MEETS RELIABILITY

Woven together, these features create an engine that redefines dependability. Extensive testing in excess of 23,000 cycles and simulated 5,000 flight cycles run on a single engine reveal proven reliability and readiness for longer uninterrupted operation. Fly longer. Ride safer. Soar with confidence.

## engine specifications

|   |                     |
|---|---------------------|
| Max take-off thrust, sea level static thrust* | 2,095 lbf           |
| Accessory power extraction (max)              | 24.2 hp             |
| Air start                                     | up to 25,000 ft     |
| Noise   | Stage 4 with margin |
| Thrust/weight ratio                           | 4.5                 |
| Time between overhaul**                       | 5,000 hours         |
| Control                                       | Dual-channel FADEC  |

\*Flat-rated to 77°F/25°C  
\*\*Subject to engine maturation



## **GE Honda Aero Engines**

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