GE Honda Aero Engines
HF120® Turbofan Engine
FL450
ADVANCED
SILENT
TOUGH
EFFICIENT
RELIABLE

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

Accelerating Innovation:
HF120° Turbofan Engine
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%.

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.

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.

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.

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.

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.

Advanced
FL450
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Efficient
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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

*Dependent on installation
**Subject to engine evaluation

EXPLORE THE HF120 ENGINE