CFM International

AS A 50/50 JOINT COMPANY BETWEEN GE AND SAFRAN AIRCRAFT ENGINES, CFM Develops, Produces, and Markets CFM56 ENGINES, WHICH NOW POWER MORE THAN 13,400 SINGLE-AISLE COMMERCIAL AND MILITARY JETLINERS WORLDWIDE.

The CFM56 has set the standard for single-aisle commercial jet engines. With more than 31,000 engines delivered, the CFM56 is the best-selling product line in commercial aviation history. It powers the single-aisle jetliners from the world’s leading plane makers, Airbus and Boeing.

The success of the CFM56 engine is built on performance and reliability gained from the proven technical excellence of GE and Safran Aircraft Engines. With dispatch reliability of close to 100% and unrivaled time on wing helping to drive down the cost of ownership, the engine now powers aircraft for more than 570 operators worldwide.

GE and SAFRAN
AIRCRAFT ENGINES
TOGETHER SINCE 1974,
PARTNERS THROUGH 2040+
Four decades after its launch, the CFM56 family continues its success. In 2016, the CFM56 program reached record production rates.

CFM provides comprehensive support to optimize fleet availability during the CFM56’s anticipated remaining service life of more than 30 years. In addition, CFM plans to maintain high levels of spare parts production to support maximizing engine availability to the year 2045.

CFM COMMITMENTS:
• Best engine performance
• Best execution
• Technology firsts

21+ SUCCESSFUL ENTRIES INTO SERVICE
99.98% DISPATCH RELIABILITY
860+ MILLION FLIGHT-HOURS
Four decades of successful execution

CFM has designed, tested, certified, produced, and supported the largest fleet of commercial jet engines for more than 40 years. This achievement is anchored in the development and continuous improvement of world-class facilities on both sides of the Atlantic, with each partner responsible for half the workload.

GE designs and develops the engine’s core, comprising the high-pressure compressor, high-pressure turbine and the combustor. Safran Aircraft Engines designs and builds the fan, the low-pressure compressor and turbine, and the accessory gearbox.

Final Assembly of CFM Engines is performed at both GE and Safran facilities.

The Power of Flight

CFM56-5B

CFM56-7B

EVERY 2 SECONDS A CFM56 POWERED AIRCRAFT TAKES OFF somewhere in the world

31,000+ ENGINES DELIVERED

28,000+ ENGINES IN SERVICE WORLDWIDE

~1,700 CFM56 ENGINES DELIVERED IN 2016

570+ OPERATORS WORLDWIDE
CFM56-5B
For the Airbus A320ceo Family
The CFM56® family of engines

is designed to power commercial aircraft requiring 18,500 to 33,000 pounds of thrust. These all-time best seller engines are widely acknowledged as the most reliable of their generation.

The CFM56-5B is the engine of choice for the A320ceo family, having been selected to power nearly 60 percent of the A318/A319/A320/A321 aircraft ordered.

CFM has constantly invested in technology that enhance today's CFM56-5B/3 PIP performance, providing operators with significant improvements in fuel consumption, emissions levels, and maintenance costs.

CFM56-5B INCORPORATES IMPROVEMENTS DEVELOPED THROUGH ADVANCED RESEARCH & TECHNOLOGY, TO OFFER:

99.98% DISPATCH RELIABILITY

INDUSTRY-LEADING MAINTENANCE COSTS

HIGHEST FAN PRESSURE RATIO IN THE CFM56 FAMILY

FIRST USE OF ULTRA-LOW-EMISSIONS COMBUSTOR IN COMMERCIAL SERVICE

A/C application
Takeoff thrust
Bypass ratio (CR)
Overall pressure ratio (T/O)
Fan diameter
Compressor Stages (fan / booster / HPC)
Turbine Stages (HP / LP)

A320ceo family
Up to 33 K
Up to 6
34.4
68.3"
1+4+9
1+4

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CFM56-7B
For the Boeing 737 Family
The CFM56® family of engines is designed to power commercial aircraft requiring 18,500 to 33,000 pounds of thrust. These all-time best seller engines are widely acknowledged as the most reliable of their generation.

The CFM56-7B is the exclusive engine for the Boeing Next-Generation single-aisle airliner (737-600/-700/-800/-900/-900ER).

CFM has constantly invested in technology that enhance today’s CFM56-7BE performance, providing operators with significant improvements in fuel consumption, emissions levels, and maintenance costs.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>A/C application</th>
<th>Boeing 737 NG family</th>
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</thead>
<tbody>
<tr>
<td>Takeoff thrust</td>
<td>Up to 27.3 K</td>
</tr>
<tr>
<td>Bypass ratio (CR)</td>
<td>Up to 5.4</td>
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<tr>
<td>Overall pressure ratio (T/O)</td>
<td>32.7</td>
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<tr>
<td>Fan diameter</td>
<td>61”</td>
</tr>
<tr>
<td>Compressor Stages (fan / booster / HPC)</td>
<td>1+3+9</td>
</tr>
<tr>
<td>Turbine Stages (HP / LP)</td>
<td>1+4</td>
</tr>
</tbody>
</table>

**CFM56-7B INCORPORATES IMPROVEMENTS DEVELOPED THROUGH ADVANCED RESEARCH & TECHNOLOGY, TO OFFER:**

99.98% DISPATCH RELIABILITY

INDUSTRY-LEADING MAINTENANCE COSTS

COMMON CORE WITH CFM56-5B/P

ON-WING LIFE ENHANCED BY INCREASED EXHAUST GAS TEMPERATURE (EGT) MARGINS

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