



**Advanced Performance Increases
Reliability for Commercial Aircraft**

Honeywell's high quality mechanical systems provide superior performance with a lower cost of ownership for airline operators.



Comprehensive mechanical systems



Honeywell delivers cost-effective mechanical solutions for commercial air transport, applying leading-edge technologies, integrated architectures and innovative service support. We can improve operational efficiencies by proactively responding to your needs with products and integrated mechanical systems that meet new and emerging standards and requirements, while enhancing the performance of existing aircraft functions.

Mechanical Systems

Auxiliary Power Units (APU)

For more than 50 years, Honeywell APUs have delivered highly reliable electrical and pneumatic power solutions for a variety of aircraft operations, including main engine starting, cabin cooling and electrical power generation. We employ leading-edge technologies, integrated system architectures and innovative service solutions to deliver higher performance, enhanced reliability and reduced cost of operations.

Environmental Control Systems

Our electric and electro-pneumatic systems feature advanced functionality to deliver exceptional passenger comfort and safety, while minimizing operator cost of ownership. Honeywell designs and manufactures a diverse portfolio of integrated environmental controls systems and components.

- Air cycle and vapor cycle air conditioning systems
- Digital and pneumatic engine bleed air systems
- Cabin pressure control systems
- Air distribution and ventilation systems
- Fuel tank inerting systems

- Air cycle machines
- Heat exchangers and water separators
- Cabin recirculation fans
- Airframe valves
- Motors and controllers
- Ozone converters

High Integrity Controls

Electronic Engine Controls

Our Full Authority Digital Engine Control (FADEC) and APU controls provide a comprehensive range of highly reliable, fault tolerant and affordable solutions for your power and propulsion systems. Honeywell controls reduce weight, increase system performance and improve cockpit operational efficiencies while providing prognostics and health monitoring of the engine.

Electrical Power Systems

From integrated components and sub-systems to total system and platform integration, Honeywell is uniquely able to take Electrical Power Generation and Distribution Systems development from requirements definition through aircraft certification for conventional as well as More Electric Aircraft systems. Our highly efficient electrical power solutions are proven to reduce aircraft weight and maintenance requirements for lower total costs of ownership and operation.

- Engine start systems
 - Starter/generators
 - Engine start controllers
 - Start power units
- Generation
 - Generators
 - Generator control units



ms and support for your aircraft

- Emergency power
 - Ram air turbines
 - Emergency power units
 - Turbine power units
- Conversion
 - Motor controllers
 - Converters
- Distribution
 - Primary power distribution systems
 - Solid state secondary power distribution systems
 - Electric power control units/load management
- Utilization
 - Permanent magnet motors
 - Electric drives

Platform Components

Wheels and Brakes

Our broad range of innovative landing system technologies provide higher reliability, excellent maintainability and lower operating costs.

- Cerametalix® Brakes – the world's most used and trusted steel brakes, representing more than 50% of the world's commercial steel business.
- Carbenix® Brakes – the next generation of advanced friction materials offer a cost effective solution.
- Electric Brake Technology – electric brake actuation and control technology to support future More Electric Aircraft initiatives.

Fuel Systems

With over 60 years of fuel system design and development expertise, our fuel metering devices operate in a diverse temperature range, from 65°F to a maximum of 325°F, at pressures exceeding 3,000 psi, enabling higher system reliability with greater fuel efficiency and lower direct operating costs.

High Performance Controls

From valves and controls to actuation and sensors, Honeywell delivers a complete range of airline mechanical systems and accessory products from high thermal efficiency fuel management systems to Electronic Thrust Reverser Actuation Systems (ETRAS™) that increase functionality, improve reliability and reduce weight for safer, more durable aircraft operation.

- Engines valves
- Air turbine starters
- Engine and airframe electro mechanical actuation
- Thrust reverser actuation
- Fuel system components
- Wing and engine anti-ice
- Engine heat exchangers

Key Program Benefits

- Solutions designed to reduce operating costs and improve reliability
- Aircraft OEM engineering and design partnerships ensure optimal product and system performance
- Comprehensive range of proven products and integrated systems
- Industry-leading resource for technology modification and upgrade
- Global repair service, logistics and customer support network

Honeywell Aerospace

Honeywell is a leading global provider of integrated avionics, engines, wheels and brakes systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations.

For more information on Honeywell Aerospace, visit us online at www.honeywell.com/aero

Global Network of Support Services

Honeywell's worldwide resources span the Americas, Europe, Middle East, Africa, Asia and the South Pacific to deliver dedicated 24/7 service support. As a world leader in aviation aftermarket services, our global repair centers, logistics network and field services engineering teams are able to quickly repair, supply, and warranty equipment whenever and wherever it is needed.

Honeywell Aerospace

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C61-0637-000-000
June 2007
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