

# Airbus A380 Wheels and CARBENIX® Brakes



**Designed for increased  
operational performance**

**Honeywell**

Increasing the operational performance and service life of your A380 wheel and brake system.



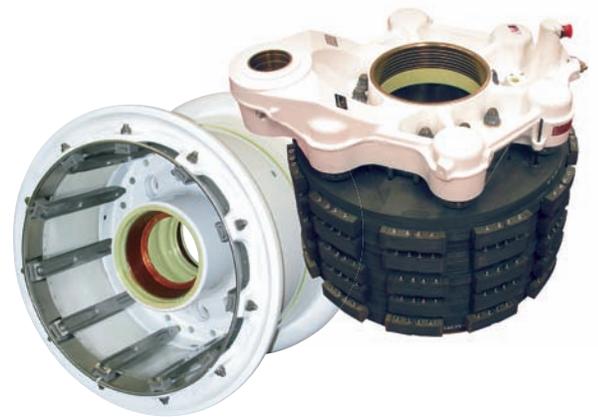
# Trusted braking performance for



As a global leader in wheel and brakes, Honeywell is proud of our contributions to launch the Airbus A380. Designed to carry more passengers over longer distances with lower operating costs, the Airbus A380 is the most spacious, comfortable and efficient airliner developed for the long-range market.

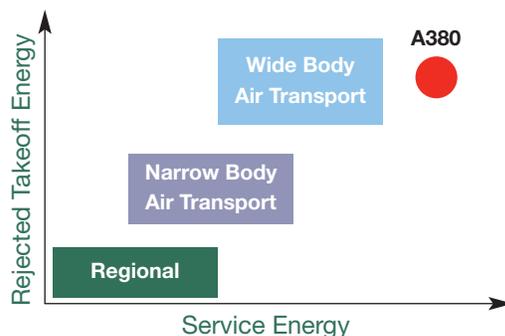
## Next Generation Performance

Our challenge was straightforward – allow the world's largest commercial aircraft to takeoff and land. Beyond this, Honeywell additionally needed to ensure that the value you obtain from your A380 in capacity, range, fuel and cost efficiency is realized throughout the lifespan of your aircraft. As a global leader in commercial transport wheels and brakes, Honeywell met this development program head-on by introducing components that advance the industry standards for performance and weight. Engineered to perform in the industry's most demanding service environment, Honeywell A380 wheels and brakes expand the envelope of commercial aviation.



## Engineering Innovations

To meet the performance specifications of the A380, Honeywell engineers worked with both proven and emerging technologies to develop our wheel and brake components. Building upon our expertise with CARBENIX® friction materials, we applied our extensive history of wheel and brake design to construct an integrated system incorporating titanium braking components and a patented anti-oxidant protection system for increased operational performance. Our extensive design experience and engineering processes delivers such a high confidence in our A380 wheels and brakes that each system will be backed by extensive guarantees to ensure you receive the highest delivered value possible.





# your most valued investment

## Design Impact

Honeywell development efforts resulted in weight and cost savings across the entire A380 airframe. Our innovative design and performance capabilities enabled Airbus to achieve its aggressive weight target for the A380 aircraft:

- 16 brake configuration eliminates 4 aft body position brakes and associated hardware
- Stopping performance eliminates requirements for 2 thrust reversers
- Titanium alloys to reduce structural component weights
- CARBENIX® carbon heat sink material is specifically tailored to meet the challenging braking demands

The reduced aircraft weight translates into decreased operating costs from a lower fuel burn, as well as reduced aftermarket expenses projected for repair and overhaul of the eliminated thrust reversers.

## Lower Cost Per Seat Landing

The Airbus A380 sets a new standard for aircraft performance. As the world's largest commercial airliner, the A380 carries one third more passengers than its nearest competitor, while promising a 15 percent lower cost per seat mile than today's most efficient aircraft.

Honeywell was selected by Airbus for our ability to deliver the greatest total system value and deliver upon Airbus' promise of better aircraft performance with lower operating costs.

Through our production efficiencies and design effectiveness, Honeywell was able to help Airbus reach the designated per seat economics and the long term operating goals set forth in the A380 design specifications. From the design stage through the service life of your A380, Honeywell delivers the highest overall value for your A380 wheels and brakes.

## Key Benefits

- Solutions designed to reduce operating costs and improve reliability
- Innovative wheel and brake technologies to increase braking capacity with lighter operational weight
- Advanced design to meet A380 performance specifications
- Industry-leading expertise for integrated performance verification of landing systems
- Proven landing system design and development capability
- Global repair service, logistics and customer support network

## Life Cycle Cost Comparison

<b>Direct Cost</b>	[Bar representing Direct Cost]	
<b>Realized Savings</b>	Four (4) Less Brakes	[Bar representing savings]
	Two (2) Less Thrust Reversers	[Bar representing savings]
	Weight Savings	[Bar representing savings]
	Performance Guarantees	[Bar representing savings]
	Product Support	[Bar representing savings]
<b>True Cost</b>	[Bar representing True Cost]	

## 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](http://www.honeywell.com/aero)

## Global Network of Support Services

Honeywell's 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.

Through our worldwide services network, we are able to uniquely support the A380 throughout the life span of your aircraft, including:

- Start-up Assistance
- Technical Training
- FSE Support
- Installation Tooling
- Service Tooling
- AOG Support
- Regionally located safety stock
- 24-hour on-demand supply
- Repair TAT Guarantee
- Charge Per Aircraft Landing (CPAL) Program
- Spares Purchase Guaranteed CPAL
- Material Supply

## Find out more

For more information about Honeywell's A380 wheels, brakes and support services, or contact us at 1.800.601.3099

## Honeywell Aerospace

Honeywell  
1944 East Sky Harbor Circle  
Phoenix, Arizona 85034  
North America: 1.800.601.3099  
International: 1.602.365.3099  
[www.honeywell.com](http://www.honeywell.com)

The Honeywell logo is displayed in a bold, red, sans-serif font.