



**Our Commitment to India  
and its Aviation Industry**

# A comprehensive range of aerospace solutions... developed in, for and with India.

Over 40 years ago, Honeywell began its investment in India with a vision to strengthen both our presence in India and our strategic relationships with Indian industry. Today, Honeywell has grown from 1,000 people in 2002 to more than 10,000 in locations throughout India. We remain deeply dedicated to the success of India's aerospace sector.

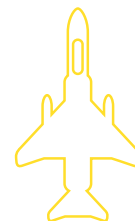
Our contributions to Indian engineering, manufacturing, research and technology development capabilities continue to expand as we support the growing demands of India's aviation, aerospace and defence industries.

Our work in India is marked by success in working with airline and defence customers, suppliers, research institutes and others to provide a host of products and services. Most aircraft flying in India use our products, many of which were developed in India for use around the world.

Honeywell's team of engineers is developing critical technologies for customers across the globe, ranging from key global military platforms to safer landing systems for commercial aircraft.

We are proud of our rich history with the Indian aerospace industry, and are committed to its continued growth and mutual success.





## India: a centre of engineering, manufacturing, research and technology development excellence

During the last few years, Honeywell has continued to expand our diverse engineering organization with scientists and engineers who play a role in critical development programs and new product innovation. Founded in the mid-1990s, the Honeywell Technology Solutions lab (HTS) is headquartered in Bangalore, with locations in Madurai and Hyderabad. With more than 500 patents filed and 2000 disclosures to date, HTS in India continues to perform pioneering work on the next generation of Honeywell avionics, navigation and safety systems, and mechanical products for Indian and global initiatives.

We've also expanded our organization to include program management, quality assurance, systems engineering, information technology and market analytics for our businesses worldwide. Our contribution to the aerospace industry is reinforced through partnerships with Indian industry and institutes.



Each day, aircraft with Honeywell parts fly throughout the skies of India. From commercial airliners to business jets and general aviation planes, our products keep pilots – and passengers – safer and more comfortable. India's commercial aerospace industry is changing, and we're changing with it, developing avionics solutions that make flying safer and mechanical solutions that make operating aircraft more cost effective. Because our products combine strong performance with dependability and efficiency, they do more than perform in the air – they perform for their owners and operators as well, providing increased value for their aviation investment.



Our products reach beyond everyday - travelers. While the people of India are sleeping at night, India's borders are secured by fighters containing our high-technology products; products that are made in India, by Indians. Today, Honeywell engine technology is ready to support the next generation of Indian Air Force aircraft, with the F125IN engine for the Jaguar fighter. It's only the latest chapter in the story of our collaboration with India.

Superior technology, products, solutions expertise and customer relationships make Honeywell one of the most valued



aerospace names in India and across the globe. With our nose-to-tail and gate-to-gate integration capabilities, Honeywell consistently delivers innovation that meets the needs of our customers for higher performance, enhanced reliability and safety and reduced costs. Our complete product portfolio of aircraft systems helps ensure mission readiness and aircraft safety.

We are committed to continuing to advance India's indigenous technology, from development through to production. Over 40 years ago, we began a partnership with Hindustan Aeronautics Limited (HAL) to manufacture and support high technology products in India. Then we created history, enabling HAL to build our TPE 331 10/12 turboprop engine and to export it to the world market, making HAL a global aerospace engine exporter for the first time. Honeywell technologists across India develop innovative solutions for our aerospace customers worldwide, while our manufacturing facilities make products that are used in India, and around the world. We believe that by working together, India can become a hub for aerospace development.

Honeywell's commitment to India and its aerospace industry is demonstrated in the most important of ways – by ensuring that our high performing products and services keep India's passengers, pilots and people safe and secure. From our first engagement with HAL to the innovative F125IN engine, we've been part of the history of Indian aerospace – even if you didn't know we were there.



### **Safety and efficiency for India's skies and beyond**

Honeywell has been at the forefront of flight safety for more than 50 years, and is playing a critical role in ensuring safety on the ground and in the air for India. Our solutions include:

- Precision and safe landing systems
- Safety systems for collision avoidance
- Runway safety systems for pilots
- Flight management systems for the A380 and other critical platforms

Our technologies are also crucial safety components for India's airport infrastructure. We have designed solutions, products and services to improve the safety and efficiency of airports, including lighting. Honeywell helped modernize Delhi, Hyderabad and Bangalore airports and is actively involved in other efforts to continue to help India modernize its air transportation system.



### **Providing dependable, high performance power solutions**

We are also a leading provider of aircraft and vehicle engines, integrated avionics systems, navigation and safety systems and a diverse range of other technologies.

# Honeywell



For almost half a century, we have produced turbofan, turboprop and turboshaft propulsion engines for military and commercial aircraft. With more than 120,000 fielded propulsion systems around the world and more than 1.6 billion service hours, Honeywell engines have a long history of proven performance – and of providing operators with technologies for enhanced reliability and reduced operating costs.

### **An aerospace partner for India – past, present and future**

In 1970, we took a significant step forward with the Indian aerospace industry. That year, we granted our first manufacturing license to Hindustan Aeronautics Limited (HAL), and since then we've continued to expand our manufacturing and support activities

*The HAL and Honeywell TPE331-10 engine manufacturing represents the first aerospace engine to be completely manufactured in India for the worldwide market.*



at HAL to include critical components and technologies. We are proud to have significant high technology content on the majority of Indian indigenous programs including the Advanced Light Helicopter (ALH) *Dhruv*, Light Combat Aircraft (LCA) *Tejas* and Intermediate Jet Trainer (IJT). Honeywell has also developed key safety and mechanical systems for defence platforms like the maritime reconnaissance P8i, the troop transport C-130J program and the Medium Multi-Role Combat Aircraft (MMRCA).

We are helping to shape the vision for aerospace programs that are key to the future of Indian aerospace, including the F125 engine (Jaguar), Medium Combat Aircraft (MCA), Multirole Transport Aircraft (MTA), TALIN® inertial navigation, T-Hawk™ MAV, Light Combat Helicopter (LCH) and Mi-17 helicopter upgrade.



### **A commitment to the future of the Jaguar strike aircraft**

There has never been a more important time for India to protect its borders. The Honeywell F125IN engine is uniquely qualified to dramatically transform the strike capabilities and enhance mission performance for the IAF Jaguar. With its high/hot takeoff and high altitude agility, F125IN increases the capability and performance of the Jaguar fleet, while improving a pilot's ability to fly more successful missions.

Designed with today's requirements in mind, the F125IN – made by Indians, for Indians – delivers the right combination of innovation, technology and performance:

- Drop-fit engine replacement
- Greater mission range
- Faster and higher climbs
- Decreased pilot workload, increased safety
- Greater time between overhaul; 2,000 hours minimum time
- Reduced fuel and maintenance costs
- Lower operational costs; projected life-cycle savings of over Rs 7,000 Crores

# India



## **A commitment to the community**

Honeywell Hometown Solutions, our global corporate social responsibility program, has a strong presence in India, focusing on science and math education, humanitarian relief, safety and security and the environment. We also have active education programs throughout India, providing merit scholarships and science laboratories in more than 20 Indian schools, teacher training programs and other community and school outreach programs. Honeywell's Nobel Initiative is also active in a number of Indian universities to further enhance science and math education.

## **Honeywell Aerospace**

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

## **A longstanding commitment to India**

- More than 10,000 employees in India
- All four Honeywell Strategic Business Groups are represented
- A significant export hub of both products and engineering services
- Five Honeywell manufacturing locations
- Four global technology and engineering centres with 6,000+ employees
- A key presence in 10 cities; sales support in 50 cities
- Our solutions are used on most commercial and military aircraft operated in India
- Industry-leading technologies to improve safety and operational efficiency of Indian airlines
- Proven collaboration with Indian industry and institutes to make India a hub for aerospace development
- Ongoing support for the continued development of India's airport infrastructure (runways, terminals)
- Our network serving corporate jets is India's most advanced dealer and service network

## **Find out more**

For more information about Honeywell in India, visit:

<http://www.honeywell.com/sites/india/>

For more information about the Honeywell F125IN engine, visit:

[www.HoneywellforJaguar.com](http://www.HoneywellforJaguar.com)

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