Aerospace in the Czech Republic
Czech Aerospace at a Glance

The Czech Republic has a long aviation tradition dating from the early 20th century and has always had a strong presence. Over the years the country has made a name for itself based on outstanding quality, reliability and innovation in the industry. From basic production to final aircraft assembly and cutting-edge R&D programmes, the local aerospace industry has progressed significantly and simply cannot be overlooked.

+ Long history in manufacturing excellence
+ One of the largest Ultralight and Light Sport Aircrafts producers in the World
+ Well-developed supplier base
+ Aerostructure programs with global market leaders
+ World class aerospace R&D centers
+ Modern airport infrastructure and MRO facilities
+ Czech Republic is an ESA member state and home to GNSS Agency
Airport Infrastructure

The Czech Republic operates with 91 airports in total, of which 24 have international status. Five main international public airports have welcomed nearly 14 million travellers from all over the world of 2016. The quality of air transport infrastructure is the highest among V4 countries.

International Airports and MRO

MRO Facilities

Prague

- Karlovy vary
- Václav Havel Prague Airport
- Pardubice

Ostrava

- Vodochody
- Brno
- Kunovice
- Leos Janacek Ostrava Airport

Source: fDi Benchmark from the Financial Times Ltd 2017

Source: CzechInvest 2017
Milestones of the Czech Aerospace

1919
Aero Vodochody, major aircraft and engine manufacturers established

1938
Avia B-35 achieves similar flying characteristics as the famous Spitfire

1969
L-410 commuter turboprop aircraft maiden flight

1976
Czech-made Zlin 50 aerobatic aircraft achieves multiple successes in world championships

1997
L-159 advanced light combat aircraft maiden flight

2011
New H80 engine certification and entry into service by GE Aviation Czech

Source: CzechInvest, 2017

Aerospace Professional Groups

Czech Republic
Confederation of the Czech Aviation Industry
Moravian Aerospace Cluster
Czech Space Alliance
Ready for the Future

The Czech aerospace industry has undoubtedly advanced to the level of global competitiveness in terms of quality and innovation while maintaining some of the advantages of an emerging markets for investors. Companies such as Honeywell, GE Aviation and others have taken advantage of that while expanding their businesses. Join the world’s elite and invest in the Czech Republic!

Specialisation in Aerospace

Companies in aerospace per 100,000 population

- UK
- USA
- Switzerland
- Poland
- Italy
- Canada
- Czech Republic
- Germany
- Hungary
- France
- Japan
- Russia
- Slovak Republic
- China

Source: FDi Benchmark from the Financial Times Ltd 2017

+ Cost per employee on 40–60% with the same level of expertise compared to the Western world

+ More than 32,000 aircrafts & 37,000 engines were delivered
GE Aviation has been successfully developing and manufacturing aircraft engines in the Czech Republic since it acquired certain assets of the local company Walter in June 2008. Since the acquisition, GE Aviation has already certified three new engine models and made significant investments in its Czech business. The company’s engineering team has already more than doubled its size and is still expected to grow as new development projects are coming down the pike. The Czech operation has become a turboprop center of excellence for GE Aviation.

Bell Helicopter’s customization and delivery center in Prague offers modifications, upgrades, avionics, and special mission packages for all current Bell Helicopter models. The facility offers customization, delivery and maintenance of Bell Helicopter aircraft and offers a wide range of aftermarket Citation Jet service offerings for Cessna. The facility in Prague serves as an anchor for Bell Helicopter in the region and is a key part of our strategy to provide regional sales, customization, delivery, training and aftermarket support to our European customers.

The Czech Republic is the cornerstone of Honeywell’s global engineering strategy in Europe. The Prague Laboratory opened in 1993 and the Brno Design Center followed ten years later. In 2006, the Brno Design Center was integrated into Honeywell Technology Solutions’ international network of research, development and engineering centers. Honeywell also has two manufacturing sites in the Czech Republic: Aerospace in Olomouc and Environmental and Combustion Controls in Brno. More than 4,000 professionals work for Honeywell in the Czech Republic.

Sector Database of Suppliers on the Czech market available free of charge at suppliers.czechinvest.org
Innovation & Education
Universities Specialized in Aerospace

Brno University of Technology  
University of Defence  
Czech Technical University in Prague  
Technical University of Ostrava

Research & Development

Nowadays the aerospace industry is largely based on sharing knowledge and experience with partners at the national and international levels. Unique research teams work within the industry and academia. Public-private cooperation has been a key activity in the R&D area, thanks to which specialised university centres have become involved in high-value-added projects. Knowledge and innovation are among the most important factors to remain competitive on the global level and to be able to advance further.

Aerospace Research and Test Establishment VZLÚ  
National centre for R&D and testing in aeronautics and space industry.

Honeywell Technology Solutions  
R&D center for comprehensive solutions in aerospace, automation and control systems.

GE Aviation Czech  
First GE’s R&D center out of the USA for new Advanced Turboprop engines.
The European Global Navigation Satellite System Agency is the first EU regulatory body located in the Czech Republic.

Evektor’s SportStar EPOS airplane represents a concept of environmental friendly electric sport aircraft of the future.

Wind tunnel—the testing facility is an essential part of development procedures at the Aeronautical Research and Test Institute.

GE H80 Turboprop engine is the first engine in the history of GE Aviation that has been designed and manufactured outside the US.

TJ 100—small turbojet engine for light air vehicles. In the category of small turbojet engines, TJ100 with thrust up to 1250 N ranks among the best in the world.

### Research and Development Intensity

Research and development expenditure as a percentage of GDP, V4 group

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Czech Republic</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Hungary</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Poland</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Slovak Republic</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Source: fDi Benchmark from the Financial Times Ltd 2017

### Global Innovation Index (2011 - 2016)

The Index rates a countries innovative capacity, it measures 85 data points, going beyond the traditional measures of innovation, V4 group

Source: fDi Benchmark from the Financial Times Ltd 2017
Space Industry

The Czech Republic recognizes space as a strategic element of national policy and has effective tools to implement it. Czech companies have a sustained presence in the supply chain of European space industry.

Space activities of the Czech Republic

- Participation in the ESA mandatory and optional programmes, EU space programmes and in the EUMETSAT programmes
- Development of space technologies, design, analysis and testing
- Space applications development activities in several sectors, e.g. transport, industry, environment and resource management
- Space-related scientific research at universities and institutes of the Academy of Sciences of the Czech Republic

The National Space Plan 2014–2019

The National Space Plan 2014–2019 represents a basis for decision-making of further Czech involvement in space, support of industry and academia, and participation in European and international projects and programmes. It defines the long-term vision for the Czech Republic.

ESA

The Czech Republic has been an active member of the European Space Agency (ESA) since 2008 and today the ESA represents the main opportunities in Czech space activities in terms of maximizing benefits to society as a whole. Accession of the Czech Republic to ESA has been an essential stimulus for change in approaching space activities, including the need to develop the National Space Plan.
The ESA Business Incubation Centre Prague offers an extensive support package to entrepreneurs and young start-ups with innovative ideas for exploiting space systems, technologies or patents in order to develop their non-space businesses and applications on Earth. The ESA space solutions network compiles a variety of expertise from Europe’s space programmes to give any business a tailored solution. ESA BIC Prague closely cooperates with ESA Technology Transfer Broker for the Czech Republic (managed by The Technology Centre of the Czech Academy of Sciences), responsible for technology transfer between ESA and private sector, and European Space Education Resources Office (ESERO), motivating and educating young students to participate in all aspects of space programmes.

Since 2012, the European Global Navigation Satellite Systems Agency (GSA) has established its headquarters in Prague. GSA is responsible for Galileo navigation system and EGNOS. It opens new opportunities for the Czech companies and their partners to encourage them to exert greater effort in research and technological innovation in order to stay ahead. Thanks to the presence of GSA Prague has become the heart of Europe’s navigation.
Our Specialist

Erik Bolebruch
Business Development Manager for Aerospace
Erik.Bolebruch@czechinvest.org

CzechInvest Headquarters and Foreign Offices:

Czech Republic | Prague
Phone: +420 296 342 500
E-mail: fdi@czechinvest.org
Stepanska 15, 120 00 Prague 2

Germany | Düsseldorf
Phone: +49 211 250 56 190
E-mail: germany@czechinvest.org

China | Shanghai
Mobile phone: +86 138 1779 2614
E-mail: china@czechinvest.org

Japan | Tokyo
Phone: +81 3 5485 8266
E-mail: tokyo@czechinvest.org

South Korea | Seoul
Phone: +82 2 720 6080
E-mail: seoul@czechinvest.org

Scandinavia
Phone: +420 296 342 809
E-mail: scandinavia@czechinvest.org

USA – East Coast | New York
Mobile phone: +1 347 789 0570
E-mail: newyork@czechinvest.org

USA – West Coast | San Francisco
Mobile phone: +1 831 313 6295
E-mail: california@czechinvest.org

Canada | Toronto
To be opened in 2017

Ukraine | Kiev
To be opened in 2017

www.czechinvest.org