



Boeing Turkey



In Partnership with
Turkey



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Boeing is associated with “aviation”, “space”, “technology”, “trust”, “innovation”, “defense and peace” in all languages – also in Turkey. The long-standing relations between Boeing and Turkey have been transformed into a long-standing partnership. Nearly a thousand Boeing aircraft, carrying the passengers to their destinations in the fastest, most comfortable and the safest way, land in or take off from Turkish airports every day.

Today, Turkish aviation developed in Turkey make significant contributions to Boeing’s aerospace projects. We carry out very successful joint projects in Turkey and reflect what we have gained here in our other global projects. The Airborne Early Warning & Control, “Peace Eagle” project, jointly conducted with Turkish Aerospace Industries (TAI), Havelsan and other Turkish industries is one of the best examples of our partnerships in Turkey and the recent developments we have achieved in the global arena.

Boeing has been working with Turkey for 70 years. Boeing is honored to contribute to the success of the Turkish aerospace industry, which has grown rapidly in recent years and whose importance is increasing due to Turkey’s investment in education, aerospace technology, research and development, and its strategic location. The partnership successfully established between Boeing and Turkey is already contributing to the country’s growth in the field of aerospace and will continue to do so in the future.

İşbirliğimiz adına

Bernard J. Dunn
President of Boeing Turkey and North Africa

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The Boeing Company

A long tradition of aerospace leadership and innovation

Boeing is the world's largest aerospace company and leading manufacturer of commercial jetliners and defense, space and security systems. The company supports airlines and U.S. and allied government customers in 150 countries. Boeing products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.

Boeing has a long tradition of aerospace leadership and innovation, and continues to expand its product line and services to meet emerging customer needs. Its broad range of capabilities includes developing new, more efficient commercial airplanes; integrating military platforms, defense systems and the war-

fighter through network-enabled solutions; creating advanced technology solutions and arranging innovative customer-financing options.

Headquartered in Chicago, Boeing employs more than 169,000 people across the United States and in more than 65 countries. This represents one of the most diverse, talented and innovative workforces in the world. Boeing also leverages the talents of hundreds of thousands more skilled people working for the company's suppliers worldwide.

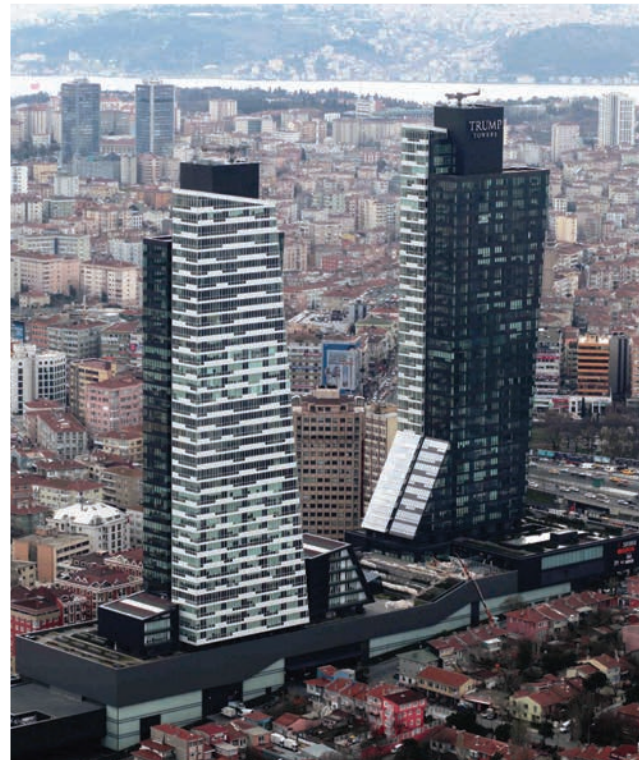
Boeing helps businesses build on their strengths in key global locations and develops strategies to create greater value and opportunities for Boeing and its worldwide partners, including Turkey.



Boeing has a solid relationship with Turkey, with a future full of opportunities



Ankara Office



Istanbul Office

Boeing has had a long-standing relationship with Turkey for 70 years, cooperating with public and private companies in the aerospace sector. The company is a provider of commercial airplanes to a number of Turkish airlines including the national airline, a supplier of defense products to the Turkish Armed Forces, a significant and trusted partner of the Turkish aerospace sector and a good corporate citizen of Turkey.

Boeing headquarters in Turkey are located in Ankara since 1999. The Boeing office in Ankara provides coordination and serves as a key link between the Boeing business units operating in Turkey. In 2013, Boeing Commercial Airplanes opened a sales office in Istanbul. In addition to the numerous Boeing personnel around the world dedicated to working with Turkish customers and partners, the company has employees located at different sites in Turkey.

Boeing Commercial Airplanes – Partners in helping connect Turkey to the world

Boeing has an important customer base in Turkey, where key airlines operate the 737 and the 777

Since 1968, Boeing has delivered more than 230 new airplanes to Turkish carriers, either directly or through lessors. Approximately 200 Boeing aircraft are in service with Turkish operators today. Boeing works closely together with Turkish carriers to provide the right aircraft for the rapidly expanding Turkish market.

Boeing and Turkish Airlines (THY) share a long history that dates back to 1945, with the arrival of THY's first DC-3/C-47 airliners. THY entered the jet age in the late 1960s when the airline began operating DC-9, DC-10 and Boeing 707 aircraft. Over the years, Turkish carriers have also flown 727, 757, MD-80 and, of course, the most modern 737 and 777 aircraft. THY Technic, a subsidiary of THY, is a world-class maintenance center for Boeing 737 and 777 aircraft with certifications from regulatory authorities throughout the region and beyond.

Boeing has also developed mutually beneficial relationships with key customers in Turkey such as SunExpress – the joint venture of Turkish Airlines and Lufthansa – and Pegasus Airlines.



Boeing Next-Generation 737 and the 737 MAX

The Boeing 737 is the most popular commercial passenger jet of all time. The first 737 arrived in Turkey in 1988, operated by Istanbul Airlines. Turkish Airlines received its first 737 in 1991. Since then, this airplane has become the backbone of Turkish Airlines short-haul fleet.

In 2013 Turkish Airlines placed its largest Boeing order in its history with the acquisition of 50 737 MAXs and 20 Next-Generation 737-800s, bringing the total number of 737s ordered by Turkish Airlines to more than 150.

Pegasus Airlines and SunExpress are also key Turkish customers committed to the 737 and its unmatched reliability and fuel efficiency.

Pegasus Airlines has ordered more than 40 Next-Generation 737s, while in 2014, SunExpress made the largest order in its history for 15 737 MAXs and 25 Next-Generation 737s. SunExpress currently operates more than 60 Next-Generation 737s.



Boeing 777

Turkish Airlines currently operates the Boeing 777-300ER (Extended Range) as its fleet's flagship airplane. Flown by the world's elite airlines, the 777's combination of range and fuel efficiency has helped the airline open up new international routes and will support the airline's plans to make Istanbul a hub for passengers from across the globe.

The market-driven design of the 777 ensures the airplane responds to market needs and customer preferences. The result is a family of airplanes distinguished by its fuel-efficiency, spacious cabin interior, range capability, and reliability.

In 2009, Turkish Airlines demonstrated its commitment to the 777 family with two orders to purchase a total of twelve 777-300ERs. This commitment was further underlined in 2012 and 2013 with respective orders totaling an additional 20 777-300ERs.



Boeing 787 Dreamliner

The 787 Dreamliner is an all-new, superefficient aircraft with unparalleled performance with a long range that directly connects more city pairs. New innovative materials and technologies enable greater efficiency for the airlines, more comfort for the passenger and improved environmental performance.

The best industry partners worldwide were involved early on in the development of this aircraft, including Turkish aerospace companies TAI, Kale Aero and PFW Turkey.

The 787 is the most successful aircraft launch in history with customers from all over the world. The 787 uses twenty percent less fuel and has a 60 percent lower noise footprint than today's similarly sized airplanes.





Boeing and Turkish companies work together in key defense programs

Boeing is working to serve the needs of the Turkish Armed Forces with advanced technology platforms and services.

Boeing's involvement with the Turkish armed forces dates back to the 1970s, when McDonnell Douglas delivered the first F-4 Phantom fighter aircraft to the Turkish Air Force. Currently, Turkey has 157 F-4 aircraft in its inventory and continues to operate those fighters.

One of the best-known Boeing products in Turkey is the Airborne Early Warning & Control System (AEW&C). AEW&C systems features a multi-role electronically scanned array radar and provides airborne surveillance and command, control, and communications for tactical and air defense forces.

Turkey signed a contract with Boeing for four AEW&C systems, named its program Peace Eagle and received the first aircraft in February 2014.

The Peace Eagle program is an example of great cooperation between Boeing and Turkey. It involves the collaboration of several Turkish companies, including Turkish Aerospace Industries (parts, production, aircraft modification, assembly and tests), Havelsan (ground systems and software support), MIKES (electronic surveillance subsystems), THY Technic (aircraft systems support) and HTR (radar sustainment support).

Boeing has undertaken a project to provide periodic depot-level maintenance for the KC-135 tanker aircraft of the Turkish Air Force. This important project also includes training Turkish Air Force personnel to be able to provide these

services in the future. To date, the Turkish Air Force operates 7 KC-135R Stratotankers.

The governments of Turkey and the United States have finalized the sale of six CH-47F Chinook helicopters through government-to-government channels. The delivery is scheduled for 2016.

The Boeing CH-47F is an advanced multi-mission, medium-to-heavy-lift helicopter that meets tactical and combat support mission requirements for military forces around the world. The Chinook is capable of handling useful loads up to 24,000 lbs. (10,886 kg) and a maximum gross weight of up to 50,000 lbs. (22,668 kg).

This premier medium-to-heavy-lift helicopter will support Turkey's humanitarian and military missions.



Suppliers and Partners in Turkey – Developing technology, advanced skills and high value jobs

Boeing programs are currently supporting almost 2,500 jobs in Turkey

Boeing is partnering with Turkish aerospace sector in commercial and military aviation programs to grow local capabilities and provide sustainable, high-value jobs. Boeing currently supports almost 2,500 jobs in Turkey*, and the company has placed more than \$1.2 billion of work in Turkey over the years.

Boeing works with a broad network of suppliers on several programs in Turkey and around the world. Turkish Aerospace Industries (TAI) is one of Boeing's long-time suppliers, with more than 20 suppliers in its network throughout Ankara, Istanbul, Izmir, Bursa, Kayseri and Eskisehir. A number of private sector suppliers also play important roles in Boeing's supply chain.

Turkey's Peace Eagle program has resulted in long-term opportunities for the country's aerospace and defense industry and significant aerospace exports for Turkey. In addition to TAI, Peace Eagle suppliers include Selex, THY, Havelsan, Ayesas, Aselsan and Mikes. Turkish suppliers also

support the Chinook helicopter and other Boeing defense programs.

Other defense programs involving Turkish industry are the NATO AWACS mid-term upgrade and Korea's Peace Eye program, where TAI won a contract for fabrication and assembly of parts for the Boeing-produced Korea AEW&C. Also, Fokker Elmo manufactures wire harnesses for Boeing in the company's new Izmir facility.

TAI and Kale Aero have participated in all Boeing commercial airplane programs since 1997. In addition, PFW supplies parts for the 787 program and THY Technic provides technical and maintenance services for several Boeing commercial aircraft models.

In 2014 Turkish Airlines received a 737-800 containing galleys manufactured by Turkish Cabin Interiors (TCI) -- the first commercial airplane to be outfitted as such. TCI is the first Turkish aerospace company to design, manufacture and

certify products for the commercial aviation market, paving the way for the ongoing development of aerospace capabilities in Turkey. Boeing assisted TCI in the development of airplane interior products shortly after the company was founded by Turkish Aerospace Industries, Turkish Airlines and Turkish Technic.

Boeing's support also facilitated the establishment of facilities in Free Trade Zones: PFW (ESBAS), Fokker Elmo (ESBAS) and Kale (DESBAS).

The Turkish aerospace and defense industry benefits not only as a supplier to Boeing, but also as a recipient of work from other major companies in Boeing's supply chain. For example, Boeing international suppliers Alenia and Spirit AeroSystems are also investing and placing work packages in Turkey.

The success of long-term partnerships furthers the growth of technology, know-how and employment at these companies.

** Oxford Economics Research for Boeing, August 2013.*



Kale Aero receives Boeing Performance Excellence Award for 2012.



Turkish Airlines takes the delivery of the first airplane from Boeing, featuring galleys from Turkish Cabin Interiors, 2014



Boeing, Istanbul Technical University Launch Collaboration in Aerospace Technology Research, 2013

Boeing Programs in Turkey



Corporate Citizenship in Turkey – Responsible member of the community

Boeing education programs develop skills to grow Turkey's aerospace industry

Boeing believes that the measure of a company is not only the quality of its products and services but also the strength of its partnership with the communities where it does business. Boeing Turkey focuses on corporate citizenship projects in a wide variety of fields from education to health, human services and arts and culture.

In the field of education, Boeing programs target students of all ages, from primary schools to vocational high schools and universities. Since 2000, Boeing has contributed to the education of more than 135,000 primary schools students through its school construction and computer laboratories programs. Boeing is also one of the founding sponsors of Space Camp Turkey, the world's fourth space camp and the only one located in the Middle East and Southern Europe. Boeing has sponsored more than 400 Turkish students to visit Space Camp.

Boeing also supports long-term development of Turkey's aerospace industry through collaboration with universities and students. In 2013, Boeing and Istanbul Technical University launched their first collaboration in aerospace technology research and established, in collaboration with Turkish Airlines, a master degree program in air transport management. In addition, Boeing supports vocational training at eight aerospace vocational schools across Turkey as well as a composite laboratory in Izmir and the construction of a vocational laboratory at a school in Selcuk. The company also provides U.S.-based business internships for Turkish university students.

In the field of health and human services, Boeing has supplied medical equipment such as dialysis machines, ultrasound equipment, pediatric equipment and baby incubators to various hospitals. Boeing is also supporting an early learning

program involving parents to get their 5-year-old children ready for school at the Family and Child Education Centers in Diyarbakir, Adana and Istanbul. Boeing also helped Turkey following the devastating earthquake of August 1999. In cooperation with Turkish Airlines, Boeing brought a team to Turkey from Medical Teams International equipped with enough medical supplies to treat 10,000 people.

In the field of arts and culture, and after supporting the archeological digs at Gordion for several years, Boeing became one of the main sponsors of the Catalhoyuk excavations in Konya, an important 9,000-year-old Neolithic site. This site was recently recognized as World Heritage by UNESCO. Boeing has also been supporting the archeological excavation in Kalehoyuk, which is located in Kaman district of Kirsehir, and Kaman-Kalehoyuk Archeology Museum.

Boeing's Corporate Citizenship Projects in Turkey (2000-2014)

Education	127 projects in 39 cities.
Arts & Culture	54 projects in 4 cities.
Health	19 projects in 7 cities.
Human Services	13 projects in 2 cities.



Computer lab established at Huriye Askar Primary School in Afyonkarahisar, 2012



Excavations in Kaman Kalehoyuk, 2011



ACEV's (Mother Child Education Foundation) Alipasa Early Learning Center in Diyarbakir, 2014



Boeing Launches Program With Ege Higher Vocational School in Izmir, 2013



Boeing, Istanbul Technical University Launch Scholarship Programs for Students and Faculty, 2013



Boeing and Anadolu University Complete Second Phase of Aircraft Maintenance Training Program, 2014

Boeing and Turkey, 70 years of partnership



- 1945** First DC-3 icons Turkish Airlines (THY) fleet.
- 1965** Boeing Services International provides base support services for U.S. military personnel and facilities.
- 1968** THY receives its first new DC-9 aircraft.
- 1970** THY begins operating its first Boeing aircraft, a Boeing 707.
- 1972** THY receives its first new DC-10 aircraft.
- 1974** Boeing delivers THY's first 727.
The first two F-4 Phantom fighter aircraft are delivered to the Turkish Air Force.
- 1988** Istanbul Airlines takes delivery of its first Boeing 737 in Turkey.
- 1991** THY receives its first Boeing 737.
- 1997** THY places an order for 26 Boeing 737-800s.
- 1998** Boeing begins to sponsor excavations at Catalhoyuk.
THY takes delivery of its first six Boeing Next-Generation 737-800s – all in a single day.
- 1999** Boeing opens its office in Ankara.
Boeing sends relief flight to Turkey following the earthquake in August.
Boeing participates for the first time in the International Defense and Exhibition Fair (IDEF).
- 2000** TAI begins producing flight deck panels and wingtips for Boeing Next-Generation 737 aircraft.
The Dialysis Unit of the Istanbul Medical School is modernized with the contributions of Boeing and THY.
Boeing purchases twelve dialysis machines and makes a donation for the unit.
- 2001** Boeing signs a contract to perform periodic depot-level maintenance on the Turkish Air Forces' KC-135 tanker aircraft.
- 2002** Boeing and Turkey sign a \$1 billion contract for four 737 AEW&C aircraft plus a ground support segment for mission crew training, mission support and system maintenance support. The international Boeing-led team responsible for the program includes Northrop Grumman Electronic Systems and several major Turkish companies including TAI and Havelsan.
Boeing begins sponsoring the International Ankara Music Festival.
Pegasus Airlines takes delivery of its first Boeing 737-800 with blended winglets.
THY is named an "Approved Installation Center" for manufacturing blended winglets.
SunExpress orders four Boeing 737-800s with winglets installed by THY Technic.
- 2004** THY orders fifteen Next-Generation 737-800s from Boeing. Turkey's first Peace Eagle aircraft, a 737-700, rolls off the production line at Boeing's Commercial Airplanes facility in Renton, Washington.
- 2005** THY exercises an option for eight Next-Generation 737-800s from Boeing.
- 2006** A 737-800 becomes the 100th aircraft of Turkish Airlines and is delivered with a special livery to celebrate the occasion.
- 2007** Aviation Partners Boeing, the company manufacturing Blended Winglets for Boeing, receives an order from THY for 24 units for its Boeing 737-800s.
Boeing conducts a successful first test flight of a 737 AEW&C aircraft for Turkey's Peace Eagle program.
Turkish Airlines purchases Maintenance Performance Toolbox software to improve efficiency of its maintenance operations.
- 2008** PFW and Fokker Elmo begin production for Boeing programs at new manufacturing facilities in Izmir.
Boeing successfully completes flight of first AEW&C Peace Eagle Aircraft modified in Turkey by Turkish Aerospace Industries.
Leased 777-300ERs join the THY fleet for the first time.
- 2009** THY orders five 777-300ERs.
SunExpress orders six 737-800s.
THY orders seven additional Boeing 777-300ERs, bringing its total 777-300ER orders to twelve.
Boeing celebrates the 10th anniversary of its headquarters in Ankara.
- 2010** THY orders 20 Next-Generation 737 airplanes (10 737-800s and 10 737-900ERs).
Boeing and HAVELSAN complete the installation of mission simulator and mission support center hardware for the Peace Eagle AEW&C program.
Boeing delivers the first 777-300ER directly purchased to THY.
- 2011** THY exercises options for 15 Next-Generation 737 airplanes (10 737-800s and five 737-900ERs).
The Turkish Air Force receives its first KC-135 Stratotanker.
- 2012** THY orders 15 more 777-300ERs worth \$4.7 billion at list prices.
The Turkish Air Force receives the 7th and final KC-135 Stratotanker.
- 2013** THY takes its 100th direct delivery from Boeing, a 737-800.
Boeing announces a MoU with Istanbul Technical University (ITU) on joint research and development programs.
Kale Aero is the first Turkish supplier to be recognized with the Boeing Performance Excellence Award (BPEA) for outstanding support of Boeing through nondestructive testing, coating, and painting and structural parts manufacturing of fuselage and wing components in 2012.
Boeing and THY finalize order for 50 737 MAX and 20 Next-Generation 737 airplanes valued at \$6.9 billion.
THY finalizes order for five additional 777-300ERs.
- 2014** The first, second and third Peace Eagle aircraft are delivered to the Turkish Air Force.
SunExpress places the largest order in its history for 15 737 MAX and 25 Next-Generation 737 airplanes valued at more than \$3.8 billion.
Boeing delivers first airplane featuring galleys from Turkish Cabin Interiors.
THY finalizes order for 15 additional 737 MAX 8s.

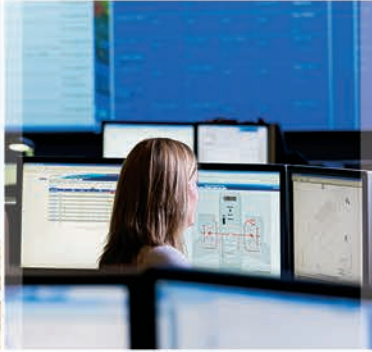


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