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AVITRADER WEEKLYAVIATIONHEADLINES

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WORLD NEWS

Air Astana to become largest A320 Neo operator in Central Asia and CIS

Air Astana, the flag carrier of Kazakhstan, is destined to become one of the largest A320neo Family operators in Central Asia and CIS over the next three years. The airline became the first operator of this type in the region in 2016 and the fleet will grow to 17 aircraft by 2020. Air Astana will then operate six A320neo, seven A321neo and four A321neoLR types. All aircraft will be acquired on an operating lease basis in accordance with agreements that were signed for 11 aircraft in 2015 and six aircraft in 2017.

Taipei - new Air France destination

Starting 16 April 2018, Air France will begin operating 3 weekly direct flights to the Taiwanese capital, Taipei, on departure from Paris-Charles de Gaulle. These flights will be operated by Boeing 777-200, equipped with the latest Air France long-haul travel cabins, with a capacity of 280 seats including 40 in Business class, 24 in Premium Economy class and 216 in Economy class.

Primera Air becomes the world's first airline to receive 10 Boeing Max 9s

Primera Air has signed the purchase of two additional Boeing 737 Max 9 airliners for 2019, thereby increasing the order to a total of 10 new units. This will further enhance the carrier's growth potential with possibilities of adding even more new routes to its already extensive network. Primera Air is a scheduled operator, operating flights to more than 70 airports in Europe.

Turkish has taken delivery of its first 777F.

Photo: Turkish Cargo

777 Freighter lands in Istanbul

Turkish and Boeing deliver first aircraft

Boeing and Turkish Airlines have celebrated the delivery of the airline's first 777 Freighter. It's the first of two 777 Freighters, Turkish Airlines has on order for this year.

"The delivery of our first 777 Freighter is a milestone event in our cargo business," said M. İlker Aycı, Chairman of the Board and the Executive Committee of Turkish Airlines. "As a prominent sub-brand of Turkish Airlines, Turkish Cargo increased its freighter destinations served from 55 to 73 from the beginning of this year, reaching to approximately one million tons of cargo with 29% increase compared to the previous year' same period. It is surely beyond doubt that this a remarkable success. We're sure that this significant delivery which will bring great value to our rapidly growing cargo operations will also enable our leading sub-brand to further compete, expand and reach new short and long-range destinations from our hub in Istanbul."

> "The delivery of our first 777 Freighter is a milestone event in our cargo business."
>
> *M. İlker Aycı, Chairman of the Board and the Executive Committee of Turkish Airlines*

As specified by Boeing the range capability of the 777 Freighter provides significant savings for cargo operators. It enables them to take advantage of fewer stops and associated landing fees, less congestion at transfer hubs, lower cargo handling costs, and shorter cargo delivery times. The new freighter also integrates smoothly with existing cargo operations and facilitates interlining with 747 freighter fleets.

The 777 Freighter has been specifically designed as a cargo aircraft, with additional strengthening in key structural areas. It also features an advanced manoeuvre load alleviation system that redistributes the aerodynamic load on the wing during non-normal flight conditions, reducing the load on

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its outboard portion. This allows the aircraft to operate in a wide variety of flight environments without compromising payload capability.

"We are honoured to deliver the 777 Freighter to Turkish Airlines," said Marty Bentrott, Senior Vice President of Sales, Middle East, Turkey, Russia, Central Asia and Africa, Boeing Commercial Airplanes. "This aircraft's range capability, combined with its enhanced cargo capacity, makes it a perfect airplane for Turkish Airlines to continue to profitably grow its global cargo service."

The 777 Freighter, the world's longest-range twin-engine freighter, is based on the technologically advanced 777-200LR (Longer Range) passenger aircraft and can fly 4,900 nautical miles (9,070 kilometres) with a full payload of 112 tons (102 metric tonnes or 102,000 kg).

Turkish Cargo increased its freighter destinations served from 55 to 73. *Photo: Turkish Cargo*

AIRCRAFT & ENGINE NEWS

Boeing delivers first 737 MAX to Aerolíneas Argentinas

Aerolíneas Argentinas has celebrated the delivery and commercial debut of the first 737 MAX airplane for the airline and for Latin America. Aerolíneas took delivery of the airplane, a MAX 8, in late November and flew the first commercial flight about a week later from Buenos Aires to Mendoza, becoming the first in the region to operate the new and improved 737 airplane. Aerolíneas Argentinas is experiencing strong growth, with a 15% increase in passenger traffic in the past year, and a 22% increase since 2015. To support that growth, the airline plans to take delivery of 12 MAX airplanes and use them on flights regionally and, later in 2018, to the Caribbean.

LOT Polish Airlines takes delivery of 737 MAX

LOT Polish Airlines has taken delivery of the first 737 MAX from Boeing, ushering the new and improved 737 airplane into the central and east Europe market. The jet is also the first MAX placed by airplane lessor Air Lease Corporation ALC.

American Airlines takes delivery of Embraer's 1,400th E-Jet

Embraer delivers its 1,400th E-Jet to American Airlines *Photo: Embraer*

Embraer has celebrated the delivery of its 1,400th E-Jet, an E175, during a ceremony at Embraer's industrial facilities in São José dos Campos, Brazil. American Airlines took delivery of this milestone aircraft and selected Envoy Air, a wholly owned subsidiary of American Airlines Group, to operate the aircraft. Since American Airlines has been a customer of Embraer for nearly 20 years, subsidiary Envoy is one of the original ERJ operators and currently has over 100 ERJs in its fleet. Combining the 2013 and 2017 E-Jet orders, American has ordered 74 E175s and selected Envoy to operate 54 of them; this delivery represents Envoy's 44th E175.

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LOT, the Polish flag carrier, plans to take delivery of additional MAX airplanes as part of its strategy to profitably grow its airline.

Saratov Airlines adds two further E195 aircraft and extends Embraer pool program

Russian operator Saratov Airlines has extended its Flight Hour Pool Program agreement with Embraer until 2021, to continue providing repairable component support for the airline's E-Jets fleet. Saratov Airlines was the first E-Jets operator in Russia, starting operations with two E195s in December 2013. The airline will also lease two additional E195s, to be delivered in early 2018, including these aircraft into the Embraer Pool Program and extending the term by an additional three years.

Embraer's Flight Hour Pool Program, which currently supports more than 30 airlines worldwide, is designed to allow airlines to minimize their upfront investment on expensive repairable inventories and resources, and to take advantage of Embraer's technical expertise and its vast component repair service provider network. The results are significant savings on repair and inventory carrying costs, reduction in required warehousing space, and the elimination of resources required for repair management, while ultimately providing guaranteed performance levels.

CALC takes delivery of first A320neo

China Aircraft Leasing Group Holdings Limited (CALC), the Hong Kong-based lessor, has taken delivery of its first Airbus A320neo aircraft and, in parallel, celebrated handing it over to lessee Frontier Airlines. CALC has 68 A320neo Family aircraft on order and a total of 147 Airbus aircraft in its orderbook. The A320neo powered by CFM engines and equipped with Frontier Airlines' latest cabin products, including new seats will offer passengers unparalleled levels of comfort and convenience.

Rolls-Royce signs Trent 7000 contract with new customer Aircalin

Rolls-Royce and New Caledonian airline Aircalin have formally signed contracts for Trent 7000 engines to power two Airbus A330neo aircraft, supported by Rolls-Royce's flagship engine service, TotalCare®. The TotalCare agreement includes a Parts Availability option whereby Rolls-Royce will ensure the airline has guaranteed parts provision on site and necessary tools worldwide to maximize service efficiency. The A330neo is exclusively powered by the Trent 7000, which brings together experience

China Airlines takes delivery of A350 XWB powered with biofuel mix

China Airlines is the second airline to use a biofuel mix to power its newest aircraft, an A350-900, for its delivery flight from Airbus *Photo: Airbus*

China Airlines of Taiwan has become the second airline to join a program to use a blend of traditional and sustainable biofuels to power aircraft for delivery flights from Airbus. The aircraft involved is the tenth A350-900 for China Airlines, which left the manufacturer's delivery centre in Toulouse on December 1, for its new home in Taipei, with a 10% blend of sustainable jet fuel in its tanks. The sustainable fuel option for delivery flights has been developed by Airbus in association with Air Total, the aviation global energy operator. In order to stock the eco-friendly product, Air Total has installed the first ever biofuel station adjacent to the Airbus delivery centre in Toulouse. A total of 21 aircraft have so far been delivered by Airbus since the facility was inaugurated in May 2016.

First A330-300P2F enters service with DHL

DHL Express takes delivery of first A330-300 P2F *Photo: EFW*

DHL Express has become the first operator to take delivery of the A330-300 Passenger-to-Freighter (P2F) converted aircraft from Elbe Flugzeugwerke (EFW), the joint venture between ST Aerospace and Airbus. This delivery, which took place at EFW's freighter conversion facilities in Dresden, Germany follows the successful completion of test flights in October and awarding of the Supplemental Type Certificate (STC) by the European Aviation Safety Agency (EASA) in November. DHL Express has firm orders for eight A330-300P2F units in total, with additional options to receive another 10.

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from the Trent 700 powering the A330, and technology from the Trent 1000 TEN and Trent XWB.

GECAS takes delivery of last Next-Generation 737

Culminating a 20-year history of new orders for the type, GECAS has received its 394th and final skyline order of Boeing's Next Generation 737. Just over a month prior to Boeing delivering its first 737 MAX to GECAS in January, the lessor recently took delivery of its final skyline NG order. With an initial order placed in 1996, GECAS' NG orderbook accounts for roughly one of every 15 NGs delivered to date. Surpassing other lessor's skyline orders for the type, GECAS' placements of NG's have been leased to 64 operators across 32 countries. Exclusively powered by CFM-56 engines, the narrow-body jet has served the airline industry for decades and is ideally suited for both commercial passenger and cargo aircraft.

Qatar Airways reconfirms and upsizes order for 50 A321neo ACF

Qatar Airways has re-affirmed its earlier order for 50 A320neo with a firm order for 50 A321neo ACF (Airbus Cabin Flex configuration). The selection of the largest member of Airbus' single-aisle Family reflects the airline's need for efficiency and additional capacity. This updated order replaces the original one placed in 2011. Joining Qatar Airways' fleet of 50 A320ceo from 2019 on-wards, the A321neo ACF will support the continuous development of Qatar Airways' network, leveraging the A321neo range capability and the unprecedented customer experience. The total value of the deal is US$6.35bn at list prices.

Airbus Helicopters completes AS565 MBe Panther deliveries to Mexican Navy

The Mexican Navy takes delivery of final two multi-mission Panther helicopters out of an order for ten
Photo: © Copyright Anthony Pecchi

The Mexican Navy received its final two AS565 MBe Panther helicopters during a delivery ceremony at Airbus Helicopters in Marignane. With their order for ten units in 2014, the Mexican Navy became the launch customer of this new version. The first four helicopters were delivered in 2016 and the remaining six during the course of 2017. Stationed at three naval bases in the Mexican states of Veracruz, Sonora and Michoacan, the helicopters perform an average of 300 flight hours for reconnaissance, patrol missions and training flights.

MRO & PRODUCTION NEWS

Bombardier Aerostructures and Engineering Services selected for new Airbus nacelle program

Bombardier Aerostructures and Engineering Services has been selected by Airbus as a supplier on a new engine nacelle program for the Pratt & Whitney-powered A320neo family of aircraft. Bombardier's Northern Ireland operations (Short Brothers plc) has been chosen to develop and manufacture a new thrust reverser to enable Airbus to offer a new, innovative nacelle and its aftermarket support for Pratt & Whitney's Pure Power PW1100G engine. Bombardier is already a supplier to Airbus on a number of programs. Its Belfast operation has extensive nacelle experience and expertise, having accumulated more than 40 years in the design, development, manufacture and support of aircraft engine nacelles.

MTU Maintenance Canada introduces V2500-A5 MRO capabilities

MTU Maintenance Canada has introduced V2500-A5 maintenance, repair and overhaul capabilities and is fully certified by the Transport Canada Civil Aviation Authority. The introduction of the engine line that serves the world's A320 fleet is the result of an agreement between Pratt & Whitney, IAE, and MTU Aero Engines. It enables MTU Maintenance Canada to serve the IAE aftermarket network for the life of the V2500 program. The first engine is already at the facility for overhaul. MTU Maintenance currently provides MRO services to 35% of the world's V2500 fleet in Hannover, Germany, and Zhuhai, China. "By adding capabilities in Vancouver, we are expanding MTU Maintenance's V2500 network into North America and strengthening its leading position globally," said Helmut Neuper, President and CEO, MTU Maintenance Canada.

Czech Airlines Technics now certified to provide Line Maintenance for A320neo and B737 MAX aircraft

Czech Airlines Technics (CSAT), a daughter company of the Czech Aeroholding Group providing aircraft repair and maintenance services, has become the first entity in the Czech Republic certified by the Civil Aviation Authority to provide line maintenance for the new Airbus A320 NEO and Boeing 737 MAX aircraft. Only a few private companies in Europe are authorized and have staff trained to work on the aircraft, which will gradually start their operations this year. The certification process took about a year, out of which about half was dedicated to the training of staff. The Boeing 737 MAX training took place directly at the Boeing facilities in Seattle, USA, while the Airbus A320 NEOs training was performed with approved European training organizations.

GE Aviation and Praxair open new advanced aerospace coatings facility

GE Aviation and Praxair have opened a new facility for their PG Technologies business, which specializes in advanced coatings that enable jet engines to withstand higher temperatures and stresses. PG Technologies is a joint venture between Praxair Surface Technologies, a wholly owned subsidiary of Praxair, and GE Aviation. The 300,000 ft² facility is expected to employ at least 250 people to meet demand for the latest generation of jet engines, including the GE9X and the CFM LEAP. "The coating technology at this new facility is vital to enabling us to meet the demands of our customers, who expect industry-leading performance from GE Aviation," said Tony Aiello, Vice President and General Manager Global Sup-

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ply Chain, GE Aviation. "The engine components delivered from this plant will be in service for decades to come with our more than 400 airline customers all around the world."

Jet Aviation receives FAP-285 approval at MRO facility in Moscow-Vnukovo

Jet Aviation's maintenance facility at Moscow-Vnukovo has received certification from the Federal Air Transport Agency (RFAA) in Russia for Federal Aviation Rules 285 (FAP-285). Introduced by the RFAA in 2015, FAP-285 certification confirms adherence to all Russian civil aviation laws. With this approval, Jet Aviation's MRO facility in Moscow is authorized to provide line maintenance and AOG support to Bombardier Challenger 300 series, 600 series and Global 5000/6000 aircraft, as well as to Gulfstream G550/G650 aircraft.

AEI receives order for CRJ200 SF freighter conversion for Regional One

Aeronautical Engineers (AEI) has signed a contract to provide Miami-based Regional One with a CRJ200 SF Freighter. The CRJ200 (MSN 7452) commenced modification last week at Commercial Jet's Miami, Florida facility and will be re-delivered to Regional One at the beginning of April 2018. Regional One will be providing a finance lease of the completed CRJ200 SF to Estonia-based Airest, which will be the first European operator for the CRJ200 SF. Airest plans to acquire and operate up to four AEI CRJ200 SFs.

American Airlines is first retrofit customer for Airbus' new Airspace XL luggage bins on A321 fleet

Airbus new Airspace-XL bin on A320 Family *Photo: Airbus*

American Airlines (AAL) has chosen Services by Airbus to provide cabin upgrades for 202 of its A321s in-service. The airline will be the first retrofit customer for Airbus' new Airspace XL bins. The larger bins provide a 40% increase in storage space for carry-on bags, reducing bin crowding and the need to check bags at the gate, allowing for a more relaxed boarding experience to both passengers and cabin crew. The upgrades are part of a project which will standardize American Airlines' A321s with a common seat count and interior, providing passengers with a consistent travel experience. New production A321s for American Airlines will also be equipped with Airspace XL bins.

Concept Laser lays foundation for additive manufacturing of tomorrow

GE and Concept Laser have lain the foundation for a new facility in Lichtenfels, Germany. In the future, the 3D Campus will unite research and development along with production, service, and logistics. The new offices should be ready for move-in early 2019, and around 40,000 m² will provide room for about 500 employees. The future machine production capacity will be four-times higher than today, with the capability of manufacturing car and airplane parts, for example. This will make Concept Laser's Lichtenfels facility a global GE center for the production of 3D metal printing machines. About €105m US$124m) will be invested into the location. Additive manufacturing (also called 3D printing) involves taking digital designs from computer aided design (CAD) software, and building them on an additive machine, layer by layer, from metal powder. Additive components are typically lighter, more durable and more efficient than traditional casting and forged parts because they can be made as one piece, requiring less welds, joints and assembly. Because additive parts are essentially "grown" from the ground up, they generate far less waste material. Freed of traditional manufacturing restrictions, additive manufacturing dramatically expands the design possibilities for engineers. Additive manufacturing is a transformative technology – part of the new world of advanced manufacturing. Combined with an entirely new approach to industrial design, additive can help transform businesses by improving their products, manufacturing operations and opening up entirely new business models.

Lufthansa Technik and MTU Aero Engines launch MRO joint venture EME Aero

Lufthansa Technik and MTU Aero Engines have set up a joint venture for the maintenance, repair and overhaul (MRO) of geared turbofan engines, with each of the partners holding a stake of 50% in the new company. The name of the new JV is Engine Maintenance Europe, or EME Aero for short. The contract, which followed up on an agreement on the general principles of the cooperation signed in February 2017, was finalized by the two companies on December 4.
EME Aero sp. z o.o. will be based in Poland and will have a workforce of 800 employees in the future. The two parties to the joint venture will invest a total amount of around €150m (US$177m) by 2020. The company will be headed up by project manager Derrick Siebert (CEO) from Lufthansa Technik and by Dr. Uwe Zachau (COO), his counterpart at MTU Aero Engines. The facility is slated to be up and running in 2020. The planned annual capacity is over 400 shop visits of PW1000G-series geared turbofans, which power the Airbus A320neo family of aircraft and other airliners. The two joint venture partners, MTU and Lufthansa Technik, have raised their forecast for the number of employees and the annual shop visits over the past few months.

GE Additive's first international Customer Experience Center opens in Munich

GE additive has opened its first international Customer Experience Center, in Munich, on December 5. The new 2,700 m² center, co-located with GE's European Technology Center, allows current and potential customers to experience every aspect of the additive manufacturing process from design, to prototyping, to operations. GE Additive's Customer Experience Centers are designed to help customers understand the additive process and guide them along the way, allowing them to benefit from hands-on training and instruction at the facility. The Customer Experience Center in Munich, launched with an investment of $15m, will employ up to 50 GE Additive employees, including technicians and engineers specializing in additive design and production. 10 additive machines from Germany's Concept Laser and Sweden's Arcam EBM have been installed. The center serves as an enabler for customers to accelerate the adoption of ad-

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ditive in their business, regardless of where they are on their additive journey. The facility also enables customers to start with a concept, design and build a prototype, and then move all the way through production, while enabling them to think through industrializing processes and helping improve their products and supply chain.
The Munich center also offers a modern educational facility for their Additive Academy™ – GE Additive's customer training team. All customers are welcome to visit the center to collaborate with the local team on additive design, process development, prototyping and industrializing their additive operations.

Preparations for LEAP operation underway at Lufthansa Technik

Lufthansa Technik in Hamburg, Germany is currently preparing to offer on-wing and MRO services for the CFM International LEAP-1A (Airbus A320neo) and -1B (Boeing 737 MAX) engine. Thus, Lufthansa Technik is one of the first MRO providers to support customers worldwide who are already in the early stages of their operation of LEAP-powered aircraft. In addition to building up repair capacity for the LEAP engine by providing staff training courses and investing in the essential tooling, Lufthansa Technik will also focus on extending its on-wing/on-site Airline Support Team (AST) services. Lufthansa Technik will provide LEAP services for the entire lifecycle. Depending on the MRO requirements and the engine life cycle phase, this covers the complete range of MRO services: from engine overhaul and parts repair to on-wing support and innovative engineering; from work scoping to active cost of ownership. Comprehensive capability is being built up step-by-step from now on.

Robertson Fuel Systems and StandardAero achieve FAA certification of Heli Crash-Resistant Fuel Tank

Robertson Fuel Systems and StandardAero announced the milestone attainment of Federal Aviation Administration (FAA) certification of their retrofittable crash-resistant fuel tank (CRFT) for the Airbus AS350 and EC130 family of light single helicopters. Production deliveries to launch partners Air Methods Corporation (AMC) and WeatherTech Aviation LLC are already underway, with additional orders now being taken from operators worldwide. European Aviation Safety Agency (EASA) certification of the CRFT is expected to follow shortly. The CRFT has been developed by StandardAero and Robertson as a direct replacement for all AS350 models, including the AS350 C, AS350 D/D1, AS350 B/B1/B2/BA/B3 and AS350 B3e (H125), as well as for the EC130 B4. The tank's unique design features a robust crash-resistant fuel bladder, with the same capacity as the legacy fuel cell, and uses several innovations including magnetic field sensor fuel gauging technology and vent system roll-over protection. The CRFT is compliant with the latest FAR Part 27.952 fuel system crash resistance requirements, even when used in combination with a cargo swing. Public and regulatory focus on enhanced helicopter safety has continued to grow since the CRFT was first unveiled in 2015, and the FAA Reauthorization Act now includes an amendment that requires the FAA to make helicopter owners aware of fuel system retrofits and to urge them to install retrofits "as soon as practicable."

Spirit AeroSystems plans major expansion in Wichita, Kan.

Spirit AeroSystems has disclosed plans for major expansion and growth, including the addition of 1,000 jobs and capital investments totaling US$1bn over the next five years at its Wichita, Kan. facility. The growth is fueled by a number of factors: increasing production rates on existing commercial aircraft programs, growth in Spirit's Fabrication and Defense businesses, and other new business pursuits. The announcement solidifies Spirit's presence in Wichita and Kansas for decades to come "Wichita is our headquarters and the hub of our operations," said Spirit President and CEO Tom Gentile. "Our workforce is unparalleled, with generations of aircraft employees who have worked in our plant. And now future generations will have those same opportunities. We are proud to partner with the city, county and state to bring new jobs and investment to the community and help ensure Wichita remains the air capital of the world." The memorandum of understanding (MOU) with the city and Sedgwick County includes joint investment in a new building to be constructed on the north side of Spirit's property. The completion of the transactions contemplated by the MOU is contingent on approval by the Wichita City Council and the Sedgwick County Commission, and the execution of definitive agreements between the parties.

Eirtech Aviation Services cargo loading system cover to be installed on A319 for European airline

Eirtech Aviation Services has designed and manufactured cover panels to install over the existing cargo loading system (FWD and AFT) and to provide a flat cargo floor on which cargo and passenger baggage can be easily and safely stored. This solution has been delivered to a number of A320 customers, globally, in 2017 and is to be installed on an A319 for a European airline this month. It is the lightest and most cost-effective equivalent solution on the market and can be supplied with EASA and FAA approvals. Available in short lead times, the installation of this solution takes approximately 16 person-hours allowing airlines to avoid unnecessary downtime.

FINANCIAL NEWS

Japan Airlines and Boom sign partnership agreement for supersonic air travel

Japan Airlines (JAL) and Boom Supersonic have agreed on a strategic partnership to bring commercial supersonic travel to passengers. Boom is developing a new-generation supersonic aircraft, which flies at Mach 2.2 and will cut flight times in half. Through this agreement, JAL will provide its knowledge and experience as an airline to support Boom in developing the aircraft. As part of the agreement, JAL has made a strategic investment of US$10m in Boom and is collaborating with the company to refine the aircraft design and help define the passenger experience for supersonic travel. JAL also has the option to purchase up to 20 Boom aircraft through a pre-order arrangement. The two companies will cooperate closely to realize faster and more convenient air travel. The JAL Group will continue to embrace new technology to deliver greater customer convenience and comfort, enhance its networks, and improve the quality of its products and services.

OTHER NEWS

Liebherr-Aerospace office in Hamburg, ribbon-cutting, on November 30, 2017 *Photo: Liebherr-Aerospace*

Liebherr-Aerospace has officially opened its new liaison office in **Hamburg's Center of Applied Aeronautical Research (Zentrum fuer Angewandte Luftfahrtforschung, ZAL)**, on November 30, 2017. The office of the Liebherr-Aerospace liaison team is now closer to the facilities of Airbus in Hamburg (Germany), and will enable the engineering and R&D teams of Liebherr and the aircraft manufacturer to further boost their close cooperation. Liebherr-Aerospace will conduct engineering as well as testing, and will support fast track development works on site. Peter Eusemann, Liebherr-Aerospace's Liaison Manager for Airbus, said: "Fast, efficient development of new technologies will be an essential driver of tomorrow's aircraft. Being able to work closer with Airbus' engineering teams is expected to foster new ideas, enable their immediate realization, and implement such technologies

OTHER NEWS

quickly into the market. It will be a key contributor to our ability to propose the best technologies and products to Airbus for their next aircraft."

Euronews joins **EasyJet's** newest Air Time entertainment offer, developed by **Immfly**, currently deployed on the British carrier's fleet. Thanks to the onboard wireless network, travelers with Europe's second largest airline company (with more than 78 million passengers per year) can now access the free service via their personal devices. Euronews' inflight offer on board EasyJet aircraft includes articles on international news, business, culture, sci-tech and European affairs, all available in five languages: English, French, German, Italian and Spanish. The inflight entertainment and services platform is developed in partnership with Barcelona-based company Immfly, which also offers Euronews on **Iberia Express**, **Volotea** and **XL Airways**.

Sabre Corporation, a leading technology provider to the global travel industry, has reported an expanded three-year partnership with **Far Eastern Air Transport**, opening a wider variety of travel options within Taiwan and internationally. Established in 1957, Far Eastern Air Transport operates services from Taiwan to Southeast Asia, South Korea and Palau. The company is currently the leading carrier for domestic routes in Taiwan, serving an estimated 60 percent of all Far Eastern Air Transport routes.

The **International Air Transport Association (IATA)** has released data for global air freight markets showing that demand, measured in freight ton kilometers (FTKs), rose 5.9% in October 2017 compared to the year-earlier period. This was a slowdown from the 9.2% annual growth recorded in September 2017, but still exceeded the average annual growth rate of 3.2% over the past decade. Freight capacity, measured in available freight ton kilometers (AFTKs), rose by 3.7% year-on-year in October. This was the 15th consecutive month in which demand growth outstripped capacity growth, which is positive for load factors, yields, and financial performance. The inventory-to-sales ratio in the US is tracking sideways, indicating that the period when companies look to restock inventories quickly, which often gives air cargo a boost, has ended. The new export orders component of the global Purchasing Managers' Index (PMI) is stable. Additionally, the upward trend in seasonally-adjusted freight volumes has moderated. Freight volumes are still expected to grow in 2018, although at a slower pace than in 2017. "Demand for air freight grew by 5.9% in October, and tightening supply conditions in the fourth quarter should see the air cargo industry deliver its strongest operational and financial performance since the post-global financial crisis rebound in 2010," said Alexandre de Juniac, Director General and CEO, IATA.

The **International Air Transport Association (IATA)** has released global passenger traffic results for October, showing that demand (measured in RPKs)

MILITARY AND DEFENCE

Boeing KC-46A Tanker for U.S. Air Force completes first flight

The first KC-46 tanker for the U.S. Air Force takes off from Paine Field in Everett, Wash., on its maiden flight *Photo: Boeing*

The first Boeing [NYSE: BA] KC-46A tanker that will be delivered to the U.S. Air Force next year has successfully completed its first flight and airborne tests, taking off from Paine Field at 10:32 a.m. PST and landing approximately three-and-one-half hours later. During the flight, Boeing test pilots took the tanker to a maximum altitude of 39,000 feet and performed operational checks on engines, flight controls and environmental systems as part of the Federal Aviation Administration (FAA)-approved flight profile. Prior to subsequent flights, the team will conduct a post-flight inspection and calibrate instrumentation. The newest tanker is the KC-46 program's seventh aircraft to fly to date. The previous six are being used for testing and certification, and to date have completed 2,200 flight hours and more than 1,600 "contacts" during refueling flights with F-16, F/A-18, AV-8B, C-17, A-10, KC-10 and KC-46 aircraft.

PASSENGER STATISTICS - NOVEMBER

• **Delta Air Lines** has reported operating performance for November 2017. The company carried 14.9 million passengers across its broad global network in the month. System traffic for November was up 3.5%, while capacity for the month was up 2.9% compared to the previous year. System load factor was up 0.4 points to 85.4% compared to November 2016.

• **IAG** has reported that Group traffic in November increased by 7.0% versus November 2016, while Group capacity rose by 4.7% compared to the previous year. Group load factor increased 1.8 points to 80.7% compared to November 2016.

• **Ryanair** has released November traffic statistics with traffic increase of 6% to 9.3m customers. The load factor for the month rose one percentage point to 96%. Rolling annual traffic to November grew 11% to 128.7m customers.

• **EasyJet** reported that traffic for November 2017 improved 8.1% compared to the same month in 2016 and the load factor was up 2.6 points to 92.3%.

• **SAS's** scheduled traffic in November decreased 6.1%, while capacity was up 0.9%, when compared to the previous year. The load factor decreased by 5.1 points versus last year to 68.6%.

• **Norwegian** carried 2.5 million passengers in November, an increase of 11% compared to the same month last year. November traffic growth and capacity growth both increased by 28% compared to November 2016. The load factor was slightly down by 0.3 points, to 83.7%.

• **Hawaiian Airlines** has reported that November 2017 traffic increased 6.3%, while capacity improved 6.2% compared to November 2106. The load factor was up 0.1 points to 85.9% year on year.

• In November, **Finnair's** overall capacity increased by 20.0% year-on-year, and traffic grew by 23.7% compared to November 2016. The number of passengers carried in November increased by 15% year-on-year. The passenger load factor increased by 2.3 points to 78.4%.

• **UAL's** November 2017 consolidated traffic increased 5.1% and consolidated capacity increased 5.1% versus November 2016. UAL's November 2017 consolidated load factor was flat at 81.8% compared to November 2016.

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rose 7.2% compared to the same month last year. Capacity grew 6.2% and load factor climbed 0.8 points to 80.8%, which was a record for the month. October's performance was a strong bounce-back after the hurricane-related disruptions in September. Domestic and international travel growth was largely in balance.

October international passenger demand rose 7.3% compared to October 2016, which was an improvement compared to the 6.6% demand increase for September. Airlines in all regions recorded growth. Total capacity climbed 6.0%, and load factor increased 1.0 points to 79.4%.

Asia-Pacific airlines led all regions with traffic growth of 10.3% compared to the year-ago period, which was up from an 8.7% rise in September. Capacity climbed 8.4% and load factor rose points to 78.0%.

European carriers' October demand climbed 6.2% over October 2016, which was a slowdown compared to the 7.2% year-over-year growth recorded for September. Capacity increased 4.5% and load factor rose 1.3 points to 84.9%, highest among regions.

Middle East carriers experienced a 6.9% rise in demand in October, improved from 3.9% in September. Capacity increased 5.3%, and load factor climbed 1.0 point to 69.6%.

North American airlines' traffic climbed 3.7% in October compared to the year-ago period, lowest among the regions but an improvement compared to the hurricane-impacted 3% growth in September. Capacity rose 5.2% and load factor dropped 1.1 points to 79.2%.

Latin American airlines had an 8.7% increase in traffic in October, which was a slowdown from September growth of 10.7%, but still the second-strongest percentage growth among regions. On a seasonally-adjusted basis, however, volumes are slightly below where they were three months ago. This may indicate spillover from the impact of Hurricanes Irma and Maria. Capacity climbed 9.1%, and load factor slipped 0.3 points to 82.6%.

African airlines' traffic grew 7.5% year-on-year in October, up from 3.6% in September. Conditions in the region's two largest economies—Nigeria and South Africa, are still diverging, with business confidence levels in Nigeria near a three-year high, while confidence levels in South Africa are consistent with falling economic activity. Capacity rose 3.4%, and load factor jumped 2.7 points to 70.9%.

In line with its growth strategy, **Finnair** continues to increase its traffic and will add frequencies to popular destinations in Europe for summer and winter 2018 seasons, as well as increase flights to the popular winter destinations in Finnish Lapland for the peak season in winter 2018/2019. The additions are fueled by the increasing number of Asians traveling to Finnair's European destinations. Starting in June 2018, Finnair will add frequencies to its new year-round destination, Lisbon, where Finnair will operate daily flights during the summer season. Finnair will also add frequencies to Barcelona, operating up to 18 weekly frequencies during the high season in summer 2018. Budapest will get a third daily flight for the summer season, with improved connections to Finnair's US network. In addition, Krakow will get two new weekly frequencies, with improved connections from Krakow to Asia and North America, while Geneva will get one additional weekly frequency in the summer and winter of 2018. Finnair will also fly again to Astana, with two weekly frequencies in July-August. Driven by demand from Asia, Finnair is also adding frequencies to its winter 2018/2019 schedules. Finnair will fly to Madrid with a total of 10 weekly connections in winter 2018, and Reykjavik will also get two additional weekly frequencies for winter 2018/2019.

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Delta Air Lines and **WestJet** have agreed to deepen their existing partnership by entering into a comprehensive trans-border joint venture that will increase travel choices between the U.S. and Canada. The airlines have entered into a preliminary memorandum of understanding regarding their intention to deepen their existing partnership to form a commercial joint venture arrangement, which will offer customers access to an extensive trans border route network, world-class airline products, enhanced frequent flyer benefits, shared airport facilities and amenities, and a more seamless travel experience. Highlights of the planned joint venture arrangement, subject to board approvals, execution of definitive agreements and applicable regulatory approvals in the United States and Canada, include:
– Coordinated flight schedules for new nonstop flights to new destinations, expanded code sharing, and seamless and convenient connections on the airlines' extensive networks in the U.S. and Canada.
– Enhanced frequent flyer benefits, including reciprocal benefits for top tier members of both airlines.

Aviation industry expert **ADSoftware** has signed a contract with **Heli Air Monaco**,. The partnership reinforces ADSoftware's position as one of Europe's industry leader in the development and application of ERP software for equipment maintenance and MRO, including CAMO certification.
With 55 airlines across 38 countries utilising its AIRPACK ERP, ADSoftware consolidates its position in the world's top 10 CAMO & MRO solutions with a contract with Heli Air Monaco.
First published in 2001, ADSoftware's innovative AIRPACK solution includes a modular ERP suite, composed of six modules integrated via a single database. Capabilities include a dedicated tool for fleet management & CAMO compliance monitoring (AirTime), inventory control & logistics (AirStock), documentation management (AirDoc), security management (AirUser), reliability and statistical reporting (AirStat), and time-tracking software (AirWork).

'Smart bags', also known as smart luggage, have become increasingly popular with travelers this year, but many American airlines have become concerned over their use as they contain a lithium-ion battery or power bank, which poses an undetected fire risk when stored in the aircraft's hold. Providing the battery can be removed and carried by the passenger with their hand luggage, this is acceptable to carriers, but the battery cannot be removed from most smart bags. The size of battery also varies depending on the smart bag's capabilities and functions. Some have USB charging ports and GPS satellite for bag location, while others can either remotely follow their 'owner' or even act as a ride-on scooter.
American Airlines is the first airline in the U.S. to announce this new policy, which took effect at the end of last week. However, if the battery cannot be removed, the bag will still be permissible luggage providing the battery is powered off and the bag travels in the passenger cabin. **Delta Air Lines** and **Alaska Airlines** have announced that similar policies will take effect from January 15, though their ban does not permit these bags in the cabin.
With **United Continental** and **Southwest Airlines** due to announce their smart bag policies soon, the ban could cover over 80% of all U.S. air traffic.
Bluesmart, a smart bag manufacturer, has said that it has sold 65,000 units, though with their models the lithium batteries cannot be removed. The company also says its bags comply with the current federal regulations from the Department of Transportation, the Federal Aviation Administration, and the Federal Communications Commission, while the TSA has confirmed that the bags are not on its list of prohibited items. However, Delta Air Lines has pointed out that regulators have not specifically approved any company's smart bags.

U.K. budget carrier **easyJet** will now go head-to-head with **Lufthansa** on domestic German routes after successfully acquiring elements of the now

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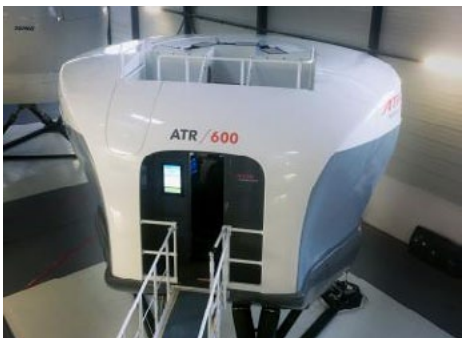
defunct **Air Berlin**. While currently flying to international destinations from Berlin Schoenfeld airport, the low-cost carrier will now fly four domestic routes to Düsseldorf, Frankfurt, Munich and Stuttgart from Berlin Tegel, the larger inner-city airport and previous home to Air Berlin. In addition to adding domestic German routes to its portfolio, easyJet will also expand its international German services by flying to 15 international destinations, including Zurich, Vienna, Paris Charles de Gaulle, and holiday destinations including Mallorca, from January 5. The carrier has also indicated that it will add more routes from Berlin Tegel for the arrival of the summer season, which starts towards the end of March. Consequently, easyJet will now be competing heavily for German business customers. "We believe our flight plan from Tegel will be of particular interest to business customers," said easyJet Europe Managing Director, Thomas Haagensen.

In some ways, this move by easyJet may help to alleviate one of Lufthansa's current problems, and that is the need to offer concessions so that it can obtain EU approval for its purchase of Niki and LGW. Lufthansa CEO Carsten Spohr has made it clear that the acquisition of Niki would still proceed with virtually no take-off or landing slots if required.

easyJet will now take over from Air Berlin as market leader in Berlin, with passenger numbers estimated to grow from 5.8 million to 16 million. Meanwhile, **Ryanair**, which did not bid for any parts of Air Berlin, is looking to take over a number of slots at Berlin Tegel, basing nine aircraft there, with the intention of doubling its current passenger numbers from 5 million to 10 million.



The ATR 72-600 FFS has received EASA certification *Photo: ATR*

Turboprop manufacturer **ATR** has received certification from the **European Aviation Safety Agency (EASA)** for its new ATR 72-600 Full Flight Simulator (FFS) based at ATR's Paris Training Center. The brand new FFS was manufactured by **TRU Simulation + Training** and is conveniently located close to Charles de Gaulle airport, which provides connections to any worldwide destination. With ATR operators expected to need around 1,000 new pilots per year; the new simulator will increase ATR's capacity to offer its customers increased pilot training solutions for one of the market-leading aircraft. ATR has five training centers based in Toulouse, Paris, Johannesburg, Singapore and Miami. The latter opened in February 2017 to respond to the increasing presence of ATRs in the Americas. ATR is delivering more than 100,000 training hours per year.

After a glitch in the pilots' rostering system which left many scheduled flights over the holiday season between December 17 and December 30 without a pilot, co-pilot or both, **American Airlines** has come to an agreement with the pilots' union, the **Allied Pilots Association**, which it is believed will avoid the need to cancel any flights. With over 15,000 active pilots, American Airlines is scheduled to fly more than 200,000 routes in December. The glitch in the rostering system meant that pilots were erroneously offered the opportunity to opt out of flights, despite no other pilots being allocated in their place. When the problem was discovered, the carrier offered pilots a 50% increase in their basic hourly wage and intended to use reserve and on-call pilots in their place. However, the pilots' union objected as this broke its labor contract in that the incentive had been offered without first discussing it with the union, whilst also it improperly restricted premium pay. However, after a day of successful negotiations agreement was reached between American Airlines and the Allied Pilots Association, the grievance was dropped and, according to the union, "With this agreement in principle, we anticipate that American Airlines will be able to maintain a full December schedule as planned for its passengers."

It is understood that had the problem not been resolved, over 15,000 flights would have to have been canceled. It has been reported that pilots covering the affected flights will now be paid double their standard hourly rate.

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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	CFM56-5B5/P	2385	2005	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4B	441	2001	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	FPG Amentum	PW4168A	943	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-200	FPG Amentum	PW4168A	962	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	979	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	1002	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A340-300	GA Telesis	CFM56-5C4	433	2001	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
A340-300	GA Telesis	CFM56-5C4	541	2003	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
B737-300	Aersale	CFM56-3	27707	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-300	Aersale	CFM56-3	27926	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-400	Safair Operations	Freighter	East Africa		Dec 2017	ACMI only	C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	27149	1993	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-400	Aersale	CFM56-3C1	25417	1991	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-800	ORIX Aviation	CFM56-7B26	34701	2006	Q1/2018	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26/3	37258	2011	Q2/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	FPG Amentum	CFM56-7B24E	40150	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	FPG Amentum	CFM56-7B26E	40153	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	Aersale	CFM56-7B26	32917	2002	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	Aersale	CFM56-7B26	32624	2001	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	World Star Aviation Services	CFM56-7B26	32604	2002	Now	Lease	Paulo Bettencourt	pbettencourt@worldstaraviation.com	+1 415-956-9454
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B747-400BCF	Jet Midwest	PW4056-3	27044	1990	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B757-200	ORIX Aviation	RB 211-535E4	27810	1995	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B757-200F	Aerolease	RB211	22211		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B757-200F	Aerolease	RB211	22611		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B777-200ER	GA Telesis		28999		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28523		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10246	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164

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Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
DASH8-102	Magellan Aviation Group	PW121	113	1988	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
DASH8-311	Regional One	PW123B	323	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
DASH8-311	Magellan Aviation Group	PW123	266	1991	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
Dornier 328-300	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
Dornier 328-300	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
E170	AerFin	CF34-8E	121		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	123		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
SF340B	Jet Midwest	CT7-9B	320	1992	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(1) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(2) AE3007	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
CF34 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(8) CF34-8E	Q4/2017 - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(1) CF34-10E7	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2A2/A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	

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CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(1) CFM56-5A3	Nov 17 - Sale / Lease				
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B6/3	Now - Lease				
(2) CFM56-5C4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-7B26	Now - Sale/Lease/Exch.	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(2) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				
(2) CFM56-5C3/F4	Now - Sale/Lease/Exch.	AerFin	R. Rosser		+442921676296
(7) CFM56-5C4	Now - Sale/Lease/Exch.				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B4/3	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-5C4/P	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B26	Oct 2017 - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B24/3	Now - Lease				
JT8D and JT9D Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(1) JT8D-219	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
(1) JT9D-7R4D-E	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
PW Small Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	·1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				

Commerical Engines (cont.)

PW127M	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW150 GRB	Now - Lease				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krys	rkrys@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
PW4000 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW4090	Q1/2018 - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4168A-1D	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
RB211 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(1) RB211-535	Now - Sale/Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1)Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
V2500 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
1) V2533-A5 w/QEC	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		**Company**	**Contact**	**Email**	**Phone**
(1) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale				
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTCP331-500	Now - Sale				
(2) GTCP331-350C	Now - Sale				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
GTCP131-9A, GTCP131-9B , GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
Engine stands now available	Now - Lease				
(2) GTCP131-9B, (2) GTCP131-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
B737-400 main landing gears, with 2015 tags		World Star Aviation Services	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-22000
767-300ER 413K LANDING GEAR	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
737-300/400 LANDING GEAR					
CFM56-3 MODULES					
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werneraero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
767-300 Winglets, LH-RH P/N 767-0010-7 & -8					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368