

Weekly Aviation Headline News

WORLD NEWS

Lion Air data recorder found

Indonesian navy divers have found a black box and a piece of landing gear from the Lion Air 737 Max 8 that plunged into the Java Sea killing all 189 people on board reports The Guardian. At the time of this writing searchers where are still looking for the cockpit voice recorder. Both instruments will be critical in the investigation to try and understand what brought down a brand-new aircraft and its passengers.

Kenya Airways launches direct service to New York

Kenya Airways has inaugurated its much-anticipated new nonstop route connecting New York JFK and Nairobi, Kenya. The direct service linking New York City and Nairobi is, of course, a historic milestone for Kenya's national carrier. The new flights will run daily from Kenya to John F. Kennedy International Airport, and the national carrier hopes they will help drive a rebound in profit. It will be the first direct flight from the region to the US and will be operated by the airline's 787-8 fleet.

Pobeda distributes globally under Hahn Air Systems

Hahn Air Systems and Pobeda Airlines signed an agreement allowing the Russian low-cost carrier to be distributed under the H1 code in all major GDSs worldwide. Travel agencies worldwide can now issue the Hahn Air Group's 12th Russian partner on the insolvency-safe Hahn Air ticket using the standard GDS ticketing process. Pobeda Airlines, a wholly owned subsidiary of Aeroflot, is based at Vnukovo International Airport (VKO) in Moscow. Founded in 2014, Pobeda serves 78 destinations across 13 countries in Asia and Europe. Pobeda's fleet consists of twelve B737-800 aircraft.



SIA will increase A350-900 capacity to US markets.

Photo: SIA

Singapore Airlines to add Seattle operations

And becomes fifth US city in SIA network

Seattle will become the fifth US city in Singapore Airlines' route network – and the fourth to be served non-stop from Singapore - when new flights are introduced next year.

The non-stop Singapore-Seattle flights are due to be launched on 3 September 2019 and will initially be operated three times per week before increasing to four times per week in October 2019. Airbus A350-900 aircraft will be used on the route, fitted with 42 Business Class, 24 Premium Economy Class and 187 Economy Class seats.

"Our new non-stop flights to Seattle are another demonstration of

our commitment to expand our operations in the important US market and grow our network reach. The new services will also further strengthen the Singapore hub by providing customers faster and

"Our new non-stop flights to Seattle are another demonstration of our commitment to expand our operations in the important US market."

Mr Goh Choon Phong, Singapore Airlines CEO

more convenient connectivity from key markets such as Southeast Asia, South Asia and Australasia to North America," said Singapore Airlines CEO, Mr Goh Choon Phong.

Seattle is one of the fastest growing cities in the US, with a strong and

diverse economy. Seattle is home to the headquarters of a large number of major US corporations and the city is a popular venue for start-up businesses. Seattle also ranks highly for job growth and has a steadily increasing population. Known affectionately as the "Emerald City", Seattle is also a popular tourist destination, famous for its lush evergreen forests and parks, vibrant arts and cultural scene as well as the gateway for cruises to Alaska.

The new Seattle flights will complement Singapore Airlines' existing services to the US cities of Houston, Los Angeles, New York (both JFK

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and Newark airports) and San Francisco. Singapore Airlines recently introduced daily non-stop flights between Singapore and New York (Newark) and from tomorrow will fly non-stop between Singapore and Los Angeles using Airbus A350-900ULR (ultra-long-range) aircraft.

Existing non-stop services to San Francisco will also be increased from seven to 10 flights per week with effect from 28 November 2018.

Singapore Airlines will operate 53 flights per week to the US by December 2018, including

27 non-stop Singapore-US services. With the introduction of the new Seattle flights next year, total US frequency will increase to 57 flights per week.

AIRCRAFT & ENGINE NEWS

CDB Aviation signs lease agreement for three A320neo aircraft with Bamboo Airways

CDB Aviation Lease Finance DAC (CDB Aviation), a wholly owned Irish subsidiary of China Development Bank Financial Leasing (CDB Leasing), has signed a lease agreement for three new Airbus A320-200neo aircraft with Vietnam's new start-up carrier, Bamboo Airways. CDB Aviation is the first aircraft leasing company to lease new aircraft to the carrier. The agreement also signifies the addition of the lessor's first airline customer in Vietnam, as the company continues to aggressively expand its customer footprint in Asia Pacific. Bamboo Airways is considered the first hybrid airline, combining traditional full services and affordable services in Vietnam with an aim to meet diversified demands of all passengers. With the delivery of three A320neos slated for the second half of 2019, the carrier intends to utilize the aircraft to better connect Vietnam's regions to fast-growing Asian source markets and long-haul services to Europe and North America.

GA Telesis Component Solutions Group (CSG) announces acquisition and disassembly of Airbus A319-200 aircraft

GA Telesis has reported the acquisition of an Airbus A319-200 (MSN 1541) equipped with CFM56-5B engines. The disassembly is taking place in the United Kingdom, where key com-

Delta Air Lines first airline in North America to receive A220



The first A220 for Delta Air Lines

Photo: Airbus

Airbus has welcomed Delta Air Lines as the first U.S. carrier to take delivery of the Airbus A220 aircraft. On hand for the delivery ceremony at the aircraft's assembly line in Mirabel were members of the A220 team as well as government officials and executives from Delta, Airbus, Bombardier and Investissement Quebec. "It is with great pride that we take delivery of our first, state-of-the-art A220-100," said Delta Chief Executive Ed Bastian. "We have big plans for our A220 fleet and are confident that Delta customers and Delta people alike will be delighted with the in-flight experience provided by this thoroughly modern and efficient aircraft. We value our longstanding partnerships with Airbus and Bombardier and are grateful for the great design and manufacturing work done by the team here in Mirabel." Delta's A220 will enter service in early 2019, making Delta the fourth global airline to operate the aircraft previously known as the Bombardier C Series. The C Series Aircraft Limited Partnership (CSALP) welcomed Airbus as lead partner earlier this year, prompting the change of name to the Airbus A220. Delta is the largest A220-100 customer, with a firm order for 75 aircraft.

MRO

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ponents will then be routed to its U.K. and U.S.-based distribution facilities. The inventory will be used in support of GA Telesis' iGEAR, SNAP and ACCESS programs as well as day-to-day sales requirements of the company's airline and MRO customers worldwide. "We have a substantial pipeline of airframe and engine inventory scheduled in the coming months to add to our recent 747 and 777 teardowns," said Jason Reed, President of GA Telesis Component Solutions Group. "In addition to the A319, the company has also targeted four 777s and one A330 that will be disassembled by Q1 2019 to ensure success in supporting our customers' operational performance," he added.

Kellstrom Aerospace Asset Management acquires ex-Frontier A320-200 aircraft

Kellstrom Aerospace Asset Management (KAAM), the leasing and financing arm of Kellstrom Aerospace Group, has acquired ex-Frontier A320-200 MSN1806, powered by CFM56-5B's. Both engines have been placed on lease through KAAM and the aircraft is being disassembled in the U.S to support Kellstrom Aerospace airline customers with rotatable airframe inventory.

MRO & PRODUCTION NEWS

ST Engineering to expand US aerospace MRO presence with new facilities

As part of capacity expansion for its aircraft maintenance, repair and overhaul (MRO) business in the U.S., Singapore Technologies Engineering Ltd. (ST Engineering), the global technology, defense and engineering group, is pursuing the development of a 655,000 ft² airframe MRO complex at Pensacola International Airport in Pensacola, Florida. The development cost for the MRO complex is estimated at US\$210 million of which ST Engineering will invest US\$35 million, with the rest to be funded by the City of Pensacola, Escambia County, Triumph Gulf Coast, Inc., the State of Florida, as

GA Telesis completes purchase and leaseback of three aircraft and two spare engines with Aircalin

GA Telesis (GAT) has completed a purchase and leaseback transaction of three aircraft and two spare engines with Aircalin, the international flag carrier of New Caledonia. GAT completed the acquisition of two Airbus A330-200s, one A320-200 aircraft and two spare engines (one CF6-80E1 and one V2527) from Aircalin. Simultaneous with the purchase, the aircraft and engines were placed on operating leases with Aircalin. This is the first lease transaction between GAT and Aircalin.

A portion of the transaction was funded by GA Telesis Aviation Investments 2 (GAIN 2), an aviation investment vehicle managed by GA Telesis Capital Management, a wholly owned subsidiary of GA Telesis.



China Eastern Airlines' first A350 XWB performs maiden flight



The first A350-900 for China Eastern Airlines performs its maiden flight

Photo: Airbus

The first Airbus A350-900 for China Eastern Airlines has performed its maiden flight in Toulouse, France. The aircraft will now enter the final phase of production, ground checks and test flights before being prepared for delivery in the coming weeks. The airline has 20 A350-900s on order. China Eastern Airlines currently operates an fleet of 363 Airbus aircraft, comprising 305 A320 Family aircraft and 58 A330 Family aircraft. Bringing new levels of efficiency and comfort in the long-range market, the A350 Family is especially well suited to the needs of Asia-Pacific airlines. To date, A350 Family firm orders from carriers in the region represent over a third of total sales for the type.



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Embraer “Shark” E190-E2 starts China demo tour



The Embraer “Shark” E190-E2 starts its China demo tour

Photo: Embraer

The Embraer E190-E2 demo aircraft with a striking “shark” paint scheme begins its demonstration tour of China, commencing November 1 and ending November 20, as part of the E190-E2 worldwide demonstration tour. The aircraft will visit several challenging airports in China to

show the capabilities of the quietest, cleanest and most efficient new-generation single-aisle aircraft in the segment, especially when operating in a demanding market. The tour of China follows successful tours of the U.S., Africa, Europe and most recently, Asia Pacific where the E190-E2 demonstrated excellent long-range capability with flights of almost six hours. The demo trip will also include the aircraft’s debut at the 12th China International Aviation & Aerospace Exhibition that will take

place from November 6 to November 11 in the southern Chinese city of Zhuhai. The E190-E2 is the first of three new E-Jets E2s that Embraer has developed to succeed its first-generation E-Jets.

easyJet looks to future to establish electric ‘flyways’ on key short-haul routes

easyJet has confirmed that progress has been made towards its strategy to progressively operate even more sustainably and reduce noise from aviation operations. Partner and U.S. start-up company, Wright Electric, has commenced work on an electric engine that will power a nine-seater aircraft. Wright Electric partner Axter Aerospace already has a two-seater aircraft flying, and the larger aircraft is expected to start flying in 2019. The prototype propulsion system for the nine-seat aircraft is four-times more powerful than the system installed on the two-seat aircraft. Work will commence on an easyJet-sized aircraft by aircraft designer Darold Cummings. Wright Electric has also filed a patent for a motor that will be used in the larger aircraft. This exciting development suggests that the transition towards an all-electric commercial passenger jet capable of flying passengers across easyJet’s UK and European network is in sight. London – Amsterdam is Europe’s second-busiest route with a strong demand for day-return trips, potentially making it an ideal route for all electric plane flying, or what easyJet is calling an electric ‘flyway’. Pio-



Photo: easyJet Wright Electric

neering has always been a core element of the airline’s strategy and since 2000 easyJet has reduced its carbon emissions per passenger per kilometer by over 32%.

MRO & PRODUCTION NEWS

well as several other state and federal organizations. A Memorandum of Understanding (MOU) for the new facility was signed on October 27, with the City of Pensacola represented by its Mayor, Ashton Hayward. The Mayor, along with Escambia County Commissioner Jeff Bergosh and FloridaWest Economic Development Alliance CEO Scott Luth were in Singapore for the signing ceremony. Under the MOU, ST Engineering and the City of Pensacola will develop the MRO complex over four years after the formalization of definitive agreements. The design-to-build complex, adjacent to ST Engineering's newly opened 173,500 ft² MRO facility, will consist of three state-of-the-art wide body aircraft hangars and an administration building. When completed, it will contribute about 1.5 million labor hours in annual capacity, bringing ST Engineering's total annual capacity of its Pensacola MRO facility – to be called the Pensacola Aerospace Campus – to 2.1 million labor hours. Since opening in June 2018, the current facility has already redelivered 25 aircraft.

AeroVision International signs ERJ parts support agreement with Contour Airlines

AeroVision International has signed a long-term component spares and exchange agreement with Tennessee-based Contour Airlines. The parts support agreement provides Contour with access to an extensive inventory of components used to support its growing fleet of ERJ 135 & 145 aircraft. Parts will be forward-positioned at Contour maintenance facilities in Tennessee, Georgia, Arizona, California, West Virginia, and supplied from AeroVision's main Logistics Center in Muskegon, Michigan. "AeroVision is customizing service solutions for Contour Airlines to meet their specific operational, financial and maintenance requirements," said Pete Gibson, Vice President of Sales & Marketing for AeroVision. "We are excited to be chosen as a key partner for Contour."

Lufthansa Technik Malta receives Airbus A350 base maintenance approval

Lufthansa Technik Malta is officially ready to perform all work required for the Base Maintenance of the Airbus A350-900, as the company has been licensed by the German Federal Aviation Office (LBA). The granting of the Base Maintenance Approval certificate by the LBA marks the successful end of an intense period of preparation, in which employees were trained, processes were established, and infrastructure was adapted. Lufthansa Technik Malta kicked off this extensive program in November 2016.

LATAM tie up with American Airlines, British Airways and Iberia Airways obtains Chilean antitrust approval



With the agreements already in place with Uruguayan, Colombian and Brazilian authorities, Chile's antitrust court has given its approval to LATAM's plan to strengthen its ties with American Airlines Group, and IAG's British Airways and Iberia Airways. Approval relates to both passenger and cargo planes, all four carriers being members of the OneWorld Alliance. Enrique Cueto, LATAM Chief Executive commented: "This decision sets an important precedent for commercial aviation in our region. As has been shown in other parts of the world where these alliances already exist, it represents an opportunity to ensure the growth of the industry, increase passenger traffic and generate more tourism and business travel and bolster the economy." The joint business agreements (JBAs) will enable the airlines to coordinate schedules and prices for flights, similar to the North Atlantic revenue-sharing agreement which already exists between IAG and American Airlines. LATAM Airlines Group SA (LATAM), headquartered in Santiago, Chile is seen to be South America's largest airline with subsidiaries in Argentina, Brazil, Colombia, Peru, Ecuador and Paraguay. The company was formed in 2012 after the takeover of Brazil's TAM Airlines by Chile's LAN Airlines.

The first Airbus A350 is expected to arrive for base maintenance services at Lufthansa Technik Malta in spring 2019. Lufthansa Technik's CEO Marcus Motschenbacher said: "More than 50 employees of Lufthansa Technik Malta spent just over three months in personal preparation acquiring the necessary qualifications and practical training to enable them to work on the A350. Two out of six base maintenance lines at the facility have been outfitted to accommodate the A350-900 with an investment of over €3.2 million (US\$3.65 million) to cover the first C-Checks. A substantial investment in new tooling has included the purchase of more than 280 different tools including engine removal tooling." Extensive docking modifications have also been undertaken in Hangar 1, extending the current capabilities of the mezzanine, wing and tail docks. Investment in a new electrical installation was also made due to the A350's dedicated hydraulic rigs.

Oakenhurst Aircraft Services signs partnership agreement with Ontic

Oakenhurst Aircraft Services has entered into a partnership agreement with Ontic. As a recognized approved supplier, Oakenhurst further

increases its OEM support for component MRO services. Charlie Parker, Managing Director, stated "We have reacted quickly to the recent demand for our services by expanding our U.K. Facility in Rayleigh. Additional capacity has been provided by increasing test benches dedicated to each product line and implementing a training program for our engineering teams. This agreement is testament to all the hard work and planning that goes into collaborating with OEMs in partnership agreements".

Liebherr-Aerospace enlarges footprint in China

Liebherr-Aerospace is continuing to expand its presence in China. The company is growing and strengthens further its support to COMAC and to the customers of the Chinese aircraft manufacturer by different measurements at its liaison and customer service center in Shanghai. The Chinese aviation industry is developing rapidly and so are the activities of Liebherr-Aerospace locally in the People's Republic. In line with the Liebherr philosophy of promoting organic growth, the company is committed to a long-term, reliable cooperation with its customers and partners in China. The liaison and

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customer service center of Liebherr-Aerospace in Shanghai with a total floor area of 3,700 m² offers services in maintenance, repair and overhaul. These include, for example, the maintenance of bleed air and air conditioning systems including air cycle machines. In addition, the center also offers the dynamic testing of components for air conditioning and pneumatic systems (ATA 21, 36) for Airbus single-aisle and long-range aircraft, Bombardier and Embraer aircraft and COMAC's ARJ21-700. Moreover, Liebherr-Aerospace China can also service flight control and hydraulic components (ATA 27, 29). Recently, new capabilities for the repair of ARJ21 components were added. Furthermore, the technical support, engineering and flight test support teams were expanded and provide enhanced support for the operation of the ARJ21 as well supporting the C919 flight test program. The continuous growth of Liebherr-Aerospace in China can also be seen in the positive development of the joint venture of Liebherr-Aerospace Lindenberg GmbH (Germany) and LAMC (AVIC Landing Gear Advanced Manufacturing Corporation), called Liebherr LAMC Aviation (Changsha) Co., Ltd. which was founded in 2012 to develop and manufacture landing gear systems for the Chinese aerospace industry and the international market. The number of Chinese suppliers is to be gradually increased so that the joint venture can continue to remain internationally competitive with an increasingly independent location. A further important part in Liebherr's strategy in China is the cooperation between Nanjing Engineering Institute of Aircraft Systems (NEIAS) and Liebherr-Aerospace Toulouse SAS (France) with the aim of designing and producing components for the C919 air management system.

C&L Aviation Group receives STC certification for Saab 340 ADS-B In/Out solution

C&L Aviation Services (C&L), a C&L Aviation Group company, has received STC approval by the FAA for its Saab 340 A&B ADS-B solution. The STC certifies the installation of dual Garmin GTX-3000 transponders and uses either the Garmin GDL-88 SBAS/WAAS GPS or Universal Avionics SBAS/WAAS FMS GPS's including the UNS-1Ew, UNS-1Espw, UNS-1Lw and UNS-1Fw FMS systems to comply with the FAA Automatic Dependent Surveillance-Broadcast-Out (ADS/B-Out) mandate requiring compliance before January 1, 2020. C&L completed the installation and the required FAA in-flight testing in early October. There are many customers that have been eagerly waiting for this certification in order to place their orders. EASA certification will follow shortly. In addition, the Garmin Flight Stream

Leonardo and Kangde Investment Group of China agree guiding principles to partner on the new COMAC CR929 long-range airliner



Leonardo and Kangde Investment Group of China agree to partner on the COMAC CR929 long-range airliner
Photo: Leonardo

Leonardo has signed a Memorandum of Understanding (MoU) with Kangde Investment Group of China within the framework of COMAC CR929 long-range airliner program, aiming at further growth of its presence in the country. Leonardo will leverage competences and intellectual property developed in Italy, while Kangde will provide the financial coverage for the program. Following the finalization of the agreement, the two partners will establish a joint venture named Kangde Marco Polo Aerostructures Jiangsu Co. Ltd., which will be responsible for the development, production and assembly of composite materials components for the CR929 aircraft. This will allow Leonardo to take further advantage of its proprietary technologies and capabilities for the development of a new long-range airliner. China is expected to have requirements for more than 1,500 new wide-body aircraft in the next twenty years. Leonardo is also looking at the development of the Chinese space industry and potential opportunities to collaborate in this growing market. Kangde Investment Group celebrated the laying of the foundation stone of the new facility in Zhangjiagang city, in the Chinese province of Jiangsu, on October 26, where the carbon fiber fuselage sections for the new CR929 long-range airliner will be built. The CR929 program was launched by COMAC, together with the Russian Company UAC, in 2017 with the aim of developing a long-range wide-body aircraft. Leonardo signed a preliminary agreement with COMAC, a public Chinese company in charge of civil aircraft programs in the country, in 2015 to start collaboration on the development and production of sections of the fuselage made of composite materials

110/210 provides wireless ABS/B-In capability from the GDL-88 to provide subscription-free Flight Information Service-Broadcast (FIS-B) Weather and Traffic Information Service-Broadcast (TIS-B) traffic on compatible displays or PEDs. This STC can also be used for transponder/GPS pairing in other Part 23 and Part 25 aircraft.

Lufthansa Technik Puerto Rico receives approval for Airbus A320neo maintenance

Lufthansa Technik Puerto Rico, a wholly owned subsidiary of Lufthansa Technik AG, has re-

ceived Federal Aviation Administration (FAA) approval to carry out maintenance work on the Airbus A320neo. For Lufthansa Technik Puerto Rico, based at Rafael Hernandez Airport Aguadilla in Puerto Rico, this approval marks a significant milestone, since it underlines the company's position as a center of excellence for the Airbus A320 family. An investment of some US\$2.8 million was required for the training, tools and the material necessary for the maintenance of the new aircraft type.

MRO & PRODUCTION NEWS

AFI KLM E&M signs multiple new contracts, receives EASA approval to overhaul LEAP-1B type engines

AFI KLM E&M has won the call for tenders launched by Air Corsica for C-Checks on two of its Airbus A320s. The aircraft will be overhauled in Casablanca by Aerotechnic Industries (ATI), a 50/50 joint venture between AFI KLM E&M and Royal Air Maroc. The two checks will take place in the first quarter of 2019 and will include implementation of a Service Bulletin (SB), and cabin maintenance and engineering services.

AFI KLM E&M’s specialized EPCOR subsidiary delivering MRO solutions for pneumatic components and auxiliary power units (APUs) and NEOS have officially signed a maintenance agreement at the MRO Europe trade show in Amsterdam, covering the APUs of the Italian carrier’s fleet of Boeing 787s. The contract covers repairs for the APUs equipping NEOS’ 787s, two of which it currently operates, with two others awaiting delivery. EPCOR is a world-leading specialist in APU maintenance and has developed extensive know-how on a wide range of products, including latest-generation systems such as the APSS000. For this type of APU, EPCOR has dual technical and operational expertise as a provider of MRO solutions backed by an airline operating the 787, and has already convinced a number of airlines worldwide, who are reassured by this guarantee of quality and understanding of operational requirements.

At the MRO Europe trade show in Amsterdam, Corsair and AFI KLM E&M have signed an extension of their A330 component support contract, binding the two companies for several more years. The scope of the services provided is unchanged, ranging from component repairs to provision of a Main Base Kit and pool access. The two groups have cooperated for many years in the aircraft maintenance sphere, for both Corsair’s Boeing 747s and Airbus A330s, and have built up a genuine partnership. The trust created is again reflected in the extension of the A330 component support contract, for which AFI KLM E&M was able to propose an economically competitive offer to the French airline.

AFI KLM E&M has obtained approval from the European Aviation Safety Agency (EASA) for the overhaul of LEAP-1B type engines. With this latest milestone in its LEAP product industrialization program, AFI KLM E&M is henceforth authorized to offer a complete array of engine support services to customers that operate Boeing 737 MAX fleets, from inspection to modification, repairs, and overhauls.

AFI KLM E&M operationally launched this new product in spring this year after obtaining ap-

Boeing opens first European manufacturing site – Sheffield, U.K.



Boeing Sheffield preview

Photo: Boeing

Boeing has opened its first component factory in Europe, at Sheffield in the U.K. The premises will be used for the manufacture of actuation system components for the Boeing 737 and 767 jets from raw materials sourced in the U.K. Parts by the thousand will be produced each month, then shipped to Boeing’s Portland, Oregon facilities back in the U.S. Actuation systems move the flaps at the back of the wing to provide extra lift at low speeds during takeoff and landing.

Sheffield will be responsible for manufacturing over 100 different high-tech actuation components of the 737 and 767 wing trailing edge, Boeing having invested some £40 million (US\$51.2 million) in the 62,000-square-meter facility. There is a total of 52 employees, including experienced mechanics, engineers and more than 20 apprentices working in the current Boeing Sheffield team. “We appreciate all the community support for Boeing’s new advanced manufacturing factory in the U.K. This is a fabulous example of how we are engaging global talent to provide greater value to our customers,” said Jenette Ramos, Boeing Senior Vice President, Manufacturing, Supply Chain and Operations. “In Boeing Sheffield, we are building on longstanding relationships and the region’s manufacturing expertise to enhance our production system and continue to connect, protect, explore and inspire aerospace innovation.” Greg Clark, U.K. Secretary of State for Business, Energy and Industrial Strategy said: “Boeing choosing the heart of South Yorkshire as its first European home is testament to our capabilities, talent pool and strong manufacturing supply chains which are vital to job creation and creating value for local economies. We are leading the world in UK aerospace manufacturing and through our modern Industrial Strategy, we, along with industry have committed to invest £3.9 billion (US\$5 billion) in aerospace.”

provals from the EASA and the Federal Aviation Administration (FAA) for engine line maintenance (on-wing and on-site) for LEAP-1A and LEAP-1B engines. Today the industrialization program continues to be ramped up, and thanks to bilateral agreements between the EASA and the FAA, AFI KLM E&M will receive approval from the U.S. authorities in the coming weeks and will thus be able to extend coverage for its 737 MAX engine support services worldwide. In parallel, the Group is pursuing its development programs that will enable it to offer the same array of all-round services for the LEAP-1A engines equipping the Airbus A320neo.

Furthermore, KLM UK Engineering, an AFI KLM E&M subsidiary, has added the Boeing 737 MAX to its EASA Part 147 approval. A European leader in the regional jets and narrow-body aircraft market, and having an internationally acknowledged expertise on the Boeing 737, Embraer 170/190, BAe146/Avro RJ, Fokker 70/100

and Airbus A320 Family, KLM UK Engineering is delighted with this latest addition. Ray Flower, Head of Technical Training, said: “KLM UK Engineering is delighted to have gained the approval for the Boeing 737 MAX. This was the natural progression for us, after delivering Boeing 737 training for over 15 years on the Classic, followed by the Next Generation. With significant demand for both type and practical training for this product we look forward to offering solutions for 2019 onwards”. The Company’s training facility recently relocated to the International Aviation Academy Norwich, which is adjacent to the main base maintenance operation. This facility has been purpose built to accommodate aviation engineering training, with a live Boeing 737 aircraft, fully equipped workshops and state-of-the-art classrooms, to create a great learning environment.

MRO & PRODUCTION NEWS

AJW awarded new PBH contract with Azul Airlines

AJW Group has secured a new Power-by-the-Hour (PBH) support contract with the Brazilian cargo unit of Azul Airlines, Azul Cargo Express. The multi-year contract, which marks an extension of AJW's relationship with Azul, will see the business use its industry-leading expertise to manage the complete supply, repair and overhaul of rotatable components for the operator's B737CL freighter aircraft. Headquartered in São Paulo, Brazil, Azul Cargo Express was founded in 2009 and now operates express cargo transportation from over 200 stores across the country, serving more than 100 airports. In recent years, the business has expanded its offering to serve international markets including the United States, Portugal, Argentina, Uruguay and France.

Airborne Maintenance & Engineering Services receives FAA approval for ground-breaking repair process

Airborne Maintenance & Engineering Services, a wholly owned subsidiary of Air Transport Services Group, has received FAA approval of repair specifications for selected aircraft parts using the Supersonic Particle Deposition (SPD) process commonly known as "cold spray." "This ground-breaking approval is the first step in making the cold spray process commercially available for use in aircraft repairs," said Greg Smith, Director of Engineering, Manufacturing and Repair at Airborne, "and it opens opportunities to seek approval for repairs of aircraft parts that are not currently repairable. Developing these emerging technologies is one of the values that we are providing our customers to meet their requirements in cost savings and reducing overall operational waste." The SPD process involves using a supersonic jet of expanded gas to spray metal powder onto a solid surface with sufficient energy to cause bonding with the surface. The material builds up and repairs the metal part or surface without creating a heat-affected zone.

StandardAero dedicates 30,000 ft² expansion at company's existing Miami component repair facility



Opening of StandardAero's new expansion in Miami

Photo: StandardAero

StandardAero Component Services has dedicated the company's 30,000 ft² expansion of its component repair facility, located in Miami, Florida. The additional working space and capital improvements includes the installation of a state-of-the-art clean line, an additional vacuum furnace as well as water jet cleaning capabilities. As a result, the facility will be the largest provider of aerospace and aerospace-derivative combustor overhauls in North America. The Miami location expansion complements StandardAero's recent new building expansion at its Cincinnati facility and the company is still proceeding with another 30,000 ft² expansion at its Hillsboro, Ohio facility, which is expected to be completed by the end of this year. StandardAero Component Services offers a full range of repair and overhaul capabilities using special processes developed and/or implemented at its facilities to solve unique and complex problems. These can range from advanced repair technologies through procedural, compliance and quality assurance processes. Some of its major process capabilities include cleaning, NDT and inspection; thermal spray and coating; plating; welding/brazing and heat treatment; painting, stripping and surface prep; manual and CNC machining; and extensive composite capabilities.

FINANCIAL NEWS

IAG posts nine-months results

International Consolidated Airlines Group (IAG) has presented Group consolidated results for the nine months to September 30, 2018. The company reported third-quarter operating profit of €1,460 million before exceptional items (2017 restated: €1,450 million). Net foreign exchange operating profit impact for the quarter adverse €111 million. Passenger unit revenue for the quarter was up 1.3%, up 2.4% at constant currency. Non-fuel unit costs before exceptional items for the quarter was up 0.5%, down 0.7% at constant currency. Fuel unit cost for the quarter was up 14.3%, up 15.0% at constant currency.

Operating profit before exceptional items for the nine-months period was €2,575 million (2017 restated: €2,400 million), up 7.3%. (Restated for new accounting standards IFRS 15 'Revenue from contracts with customers' and IFRS 9 'Financial instruments'.) (€1.00 = US\$1.14 at time of publication.)

Lufthansa's third-quarter operating profits down

Lufthansa Group achieved an adjusted EBIT of €2.4 billion for the first nine months of 2018 – a 7.7% decline on the prior-year period, which the company says is primarily attributable to the integration costs at Eurowings. Adjusted EBIT margin for the period amounted



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to 8.8%. Nine-month results were also burdened by a €536 million rise in fuel costs, an increase in the costs incurred in connection with flight delays and cancellations, and higher maintenance expenses. “We expect to see our full-year costs increase by more than €1 billion in 2018 due to fuel costs and the extra expenses incurred from delays and cancellations alone,” says Carsten Spohr, Chairman of the Executive Board & CEO of Deutsche Lufthansa AG. “But despite this, we achieved an Adjusted EBIT of €2.4 billion for the first three quarters of this year, the second-best nine-month result in our history. And had it not been for the losses at Eurowings, we would have posted another record earnings result. This is a clear testament to our sustainable financial strength – a strength that we have demonstrated even under challenging conditions this year.” Lufthansa Group generated total revenues of €26.9 billion in the first nine months of 2018. Total revenues increased by 6% on the prior-year period, while traffic revenues were up 7%. As a result of the first-time adoption of the new IFRS 15 accounting standard, the reported growth of total revenues to €26.9 billion was only 0.5%, while the reported traffic revenues declined by 1% to €21.1 billion. (€1.00 = US\$1.14 at time of publication.)

Embraer posts third-quarter loss of US\$21 million

In the third quarter of 2018 (3Q18), Embraer has delivered 15 commercial and 24 executive (17 light and 7 large) jets, compared to the 25 commercial and 20 executive (13 light and 7 large) jets in 3Q17; The Company’s firm order backlog was US\$ 13.6 billion at the end of 3Q18, including contracts of the Services & Support segment. Embraer’s reported EBIT and EBITDA in 3Q18 were US\$45.4 million and US\$104.8 million, re-

spectively, yielding margins of 3.9% and 9.1%. On a year-to-date basis, the Company’s reported EBIT and EBITDA in 2018 were US\$54.1 million and US\$238.4 million, respectively. The year-to-date figures include the negative impact of a non-recurring special item of US\$127.2 million related to additional costs on the KC-390 development contract in 2Q18 resulting from the incident with prototype aircraft 001 in May. 3Q18 net loss attributable to Embraer shareholders and loss per ADS were US\$(21.3) million and US\$(0.12), respectively. Adjusted net loss (excluding deferred income tax and social contribution) for 3Q18 was US\$(29.1) million, with adjusted loss per ADS of US\$(0.16).

WestJet reports third-quarter net earnings of CA\$45.9 million

WestJet has released its third-quarter results for 2018, with net earnings of CA\$45.9 million, down 66.3%. This result compares with net earnings of CA\$135.9 million, reported in the third quarter of 2017. Total revenue increased 3.8% compared to the previous year. Year-to-date, WestJet recorded net earnings of CA\$62.3 million. (US\$1.00 = CA\$1.31 at time of publication.)

Airbus reports nine-month 2018 financial results

Airbus has reported nine-month (9m) 2018 consolidated financial results and provided updated full-year guidance. “The nine-month results mainly reflect the good performance on the A350 and the aircraft delivery profile. Even though we delivered more aircraft than a year earlier, we still have a lot to do to meet our commitments,” said Airbus Chief Executive Officer Tom Enders. “On the A400M, we are progressing with the military capabilities, deliveries and retrofit. The contract amendment discussions are advancing, but a bit slower than

planned. Our primary operational focus remains on commercial aircraft deliveries and securing the A320neo ramp-up.” As of July 1, 2018, the A220 aircraft program has been consolidated into Airbus. Net commercial aircraft orders totaled 256 (9m 2017: 271 aircraft) with gross orders of 311 aircraft including 58 A350 XWBs. Industry fundamentals remain solid with the Airbus order backlog totaling 7,383 commercial aircraft as of September 30, 2018. Net helicopter orders increased to 230 units (9m 2017: 210 units), including 6 Super Puma Family and 36 H145s in the third quarter alone. Airbus Defence and Space’s 9m 2018 order intake of around €5.0 billion included the contract for Heron TP drones from Germany. Consolidated revenues increased to €40.4 billion (9m 2017: €38.0 billion (1)), mainly driven by Airbus and including the perimeter changes. At Airbus, a total of 503 commercial aircraft were delivered (9m 2017: 454 aircraft), comprising 8 A220s, 395 A320 Family, 31 A330s, 61 A350 XWBs and 8 A380s. Airbus Helicopters delivered 218 units (9m 2017: 266 units) with revenues stable on a comparable basis. On a reported basis, Airbus Helicopters’ revenues reflected the perimeter change from the sale of Vector Aerospace in late 2017. Consolidated EBIT Adjusted – an alternative performance measure and key indicator capturing the underlying business margin by excluding material charges or profits caused by movements in provisions related to programs, restructuring or foreign exchange impacts as well as capital gains/losses from the disposal and acquisition of businesses – totaled €2,738 million (9m 2017: €1,208 million). Airbus’ EBIT Adjusted of €2,340 million (9m 2017: €806 million) was driven by the A350 performance and higher deliveries, particularly for the A320neo. On the A320neo program, a total of 222 aircraft were delivered, compared to 90 in the first nine months of 2017. On the A330neo program, the A330-900 received Type Certification from the European Aviation Safety Agency in September with the first delivery expected shortly. Meanwhile, the A350



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program is progressing well, with the targeted monthly production rate of 10 aircraft expected by the end of 2018. Good progress continues to be made on A350 program recurring cost with the A350-1000 benefitting from the A350-900 learning curve. Airbus Helicopters' EBIT Adjusted increased to €202 million (9m 2017: €161 million (1)), reflecting solid underlying program execution which compensated for the lower deliveries. Consolidated net income) of €1,453 million (9m 2017: €1,398 million) and earnings per share of €1.88 (9m 2017: €1.81) included a negative impact from the foreign exchange revaluation of financial instruments partly offset by the positive revaluation of certain equity investments. The finance result was €-413 million (9m 2017: €+101 million). Net income also reflects a higher effective tax rate from the reassessment of tax assets and liabilities. Consolidated free cash flow before M&A and customer financing amounted to €-4,169 million (9m 2017: €-3,344 million) and now includes the A220. It reflects progress on aircraft deliveries but also the on-going ramp-up and some finished aircraft. Consolidated free cash flow of € -3,928 million (9m 2017: € -3,208 million) included around €0.4 billion of net proceeds from divestments at Airbus Defence and Space. Cash flow for aircraft financing was limited. (€1.00 = US\$1.14 at time of publicaion.)

PK AirFinance provides refinancing of 14 aircraft to GTLK Europe

GTLK Europe has concluded a US\$340 million refinancing debt facility secured by a portfolio of 14 aircraft. The portfolio includes 5x Airbus A321-200s, 6x Boeing B737-800s and 3x Airbus A319s leased to Aeroflot, Globus, Germania and Bulgarian Eagle. PK AirFinance, a GECAS company, was the mandated lead arranger of the transaction and provided the financing together with Credit Agricole CIB acting as co-arranger of the loans secured by the Aeroflot aircraft. PK AirFinance also acted as Agent and Security Trustee of the facility. "Understanding our requirements, PK AirFinance offered customized solutions to GTLK Europe. Tools, proposed by PK AirFinance, will promote business development in our com-



TaxiBot launching ceremony

Photo: IAI

The first commercial flight that departed from Delhi using the TaxiBot took place on Oct 29, 2018 with a **SpiceJet** aircraft. The launch of TaxiBot operations followed KSU's preparations with major stakeholders including **DGCA, Delhi International Airport** and **Delhi Air Traffic Control**. Additional Indian airlines including **Jet Airways** and **Indigo Airlines** are currently evaluating TaxiBot for their operations as well. The TaxiBot system offers better efficiency and significant green and economic benefits which will support the rapid growth in India's aviation market that is expected to soon become the third-largest aviation market in the world.

pany," shared Roman Lyadov, CEO GTLK Europe.

Spirit AeroSystems delivers Q3 2018 financial results – all customer deliveries on schedule

Spirit AeroSystems Holdings (Spirit), headquartered in Wichita, Kansas, USA, and one of the world's largest non-OEM designers and manufacturers of aerostructures for commercial and defense aircraft has released its financial results for the third quarter of 2018. Commenting on the results, the Company President and CEO, Tom Gentile, confirmed that: "A full schedule recovery and subsequent cost reduction of the 737 line has been a primary focus while sustaining execution across all programs. We made great progress continuing to improve the consistency and efficiency of 737 deliveries during the quarter and are now fully recovered to our delivery schedule. All other programs, including

the [Airbus] A320 and the A350, are on schedule. We are also on track to increase rates to 57 airplanes per month on [the Boeing] 737 and 14 airplanes per month on the 787, both of which occur next year." Spirit's third-quarter 2018 revenue was US\$1.8 billion, up from the same period in 2017, primarily driven by higher production deliveries on the Boeing 737 program and increased defense-related activity. Spirit's backlog at the end of the third quarter of 2018 was approximately US\$48 billion, operating income for the third quarter of 2018 was US\$223 million, up compared to US\$202 million in the same period of 2017. This increase was primarily due to the recovery of legal fees related to a recent court decision as well as margin recognized on the Airbus A350 program as a result of the adoption of ASC 606. Third quarter EPS was US\$1.59, up compared to US\$1.26 in the same period of 2017. Third-quarter adjusted EPS was US\$1.70, excluding the impact of the proposed Asco acquisition and debt financing costs, compared

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to US\$1.26 in the same period of 2017. Cash from operations in the third quarter of 2018 was US\$170 million, compared to US\$291 million in the same quarter last year. Adjusted free cash flow in the third quarter of 2018 was US\$130 million, compared to US\$240 million in the same quarter last year. Cash balance at the end of the quarter was US\$683 million. The company's revolving credit facility remained undrawn at the end of the quarter. Spirit delivered 431 Boeing, Airbus and business/regional shipsets in total for the third quarter 2018, compared to 404 for the same period in 2017.

OTHER NEWS

WestJet is expanding choice and connectivity for Calgarians when the airline begins operations between **Calgary International Airport (YYC)** and **Hartsfield-Jackson Atlanta International Airport (ATL)** next spring. WestJet is the only airline flying non-stop from Calgary to ATL, the world's largest airline hub – home of **Delta Airlines**, a WestJet codeshare partner since 2011. Together with Delta, via Hartsfield-Jackson airport WestJet will offer codeshare access to an extensive list of U.S. destinations including the southeastern United States and Gulf Coast, and cities such as Memphis, Tenn., Charleston, S.C., New Orleans, La., Savannah, Ga., Pensacola and Panama City, Fla. Starting March 3, 2019, WestJet will fly six times weekly between Calgary and Atlanta, moving to daily on April 7, 2019.

The **Spanish Aviation Safety and Security Agency (AESA)** has hosted the second Aviation Safety conference between the **European Union Aviation Safety Agency (EASA)** and the **Civil Aviation Administration of China (CAAC)** supported by the **EU-China Aviation Partnership project (APP)**. The EASA- CAAC Conference consolidates its status as main discussion platform for Chinese and European stakeholders after the first-ever conference in April 2017. The cooperation has already been proven successful with the current EU-China Aviation Partnership project (APP) led by EASA. The project covers a wide range of areas of mutual interest: development of the General Aviation (GA) sector, airworthiness certification, safety promotion activities and Air Traffic Management (ATM) modernization. With this basis, the level of exchange has increased considerably over the last years in areas of joint interest, such as cooperation at ICAO level, in the ATM domain, ramp-inspections, and validation of products from both Europe and China. Continued cooperation on flight standards and drones are becoming more prominent themes for both regions. Focusing on topics such as the developments achieved in Aircraft certification, Airports and security, advances and technological trends in passenger transport and the cooperation in



Binter Technik goes live with AMOS

Photo: Swiss-AS

Swiss-AS has announced the smooth AMOS go-live of **Binter Technik**, an ATR maintenance, repair and overhaul center based in the Canary Islands. Right from the beginning, the project had a strict timeline as the go-live was planned to take place before Binter's high season starts. Thanks to the dedicated key users, the ambitious timeline for the cut-over was successfully completed with an on-time go-live. The big bang cut-over was very smooth with hardly any disruption to the ongoing maintenance projects and the Binter workforce rapidly integrated the new processes. Binter Technik decided to perform all related project tasks in-house. While other companies may engage third parties to outsource time-intensive project tasks, such as data migration or change management, Binter Technik was in the fortunate position of having the required resources and skills available in-house. The project was characterized by the strong personal dedication and effort of the project team. During the go-live, the Binter Technik key users and the Swiss-AS onsite team joined forces to finalize this implementation with a successful cut-over. Binter Technik has chosen the AMOS Airline/MRO Edition, being the perfect fit for them, as it provides line and base maintenance for the ATR fleet of **Binter Canarias**, whilst also competing for third-party maintenance contracts outside the Binter Group.



Air BP is refueling an operator's aircraft

Photo: Air BP

Air BP, the international aviation fuel products and services supplier, has bolstered its network in Brazil with the addition of **Salvador International Airport (SSA/SBSV)**, effective immediately. Operations at the airport will be managed by **Air BP Petrobahia**, a joint venture between Air BP and Brazilian company **Petrobahia**. Air BP Petrobahia has invested US\$3 million in enhancing fuelling infrastructure and training at the airport and will supply Jet A-1 fuel to both general and commercial aviation customers. Salvador International is a key entry point for customers visiting Brazil from Europe and the USA. It complements Air BP's existing location at Recife International (REC/SBRF), enabling greater choice for customers when travelling within the region. As part of Air BP's 900-strong network, customers using the airport will be able to use their Air BP Sterling Card to purchase fuel, in addition to ordering and paying for fuel via the RocketRoute Marketplace app.

OTHER NEWS

General Aviation operations and ATM, the EASA – CAAC Aviation Safety Conference highlights the partnership between Europe and China. This event intends to enhance cooperation among European and Chinese regulators to accommodate new emerging technologies in aviation and expectations from aviation industry actors and passengers.

Monday’s annual U.K. budget has seen the Chancellor of the Exchequer, Philip Hammond, freeze levies on short-haul flights, but increase levies on long-haul flights in line with inflation. The aviation industry has already expressed anger at the decision, indicating that it makes a mockery of the ambition to become a ‘Global Britain’ after leaving the European Union. Speaking about the new levy for long-haul flights, **IAG**, owner of **British Airways**, commented that: “It’s ironic that this Brexit budget has undermined Britain’s global competitiveness by upping Air Passenger Duty (APD), the world’s highest aviation tax, again. We want to offer more flights to key trading markets, like our European competitors, but APD stifles route development to new emerging markets. If Britain wants to compete on the global stage post Brexit, it should be scrapped now.” IAG also said that British Airways passengers paid £682 million in APD last year. A spokesperson for **Virgin Atlantic** said customers were already paying a levy twice that of any other EU nation, to leave the UK: “APD now accounts for more than a quarter of our lowest fare.” Tim Alderslade of **Airlines UK** commented that the planned tax increase was sending the wrong signal: “APD is nothing but a tax on Global Britain.” Hammond said short-haul APD rates for 2020-21 would not rise, remaining at the same level as they have been since 2012. For long-haul they will increase by £2.00, while the rates for those travelling in premium economy, business and first class will increase by £4.00. (£1.00 = US\$1.27 at time of publication.)

INDUSTRY PEOPLE

- **Johann Panier** has been appointed to helm Business Development at AFI KLM E&M. Since 2014 he has been CEO of Barfield, an AFI KLM E&M Group subsidiary headquartered in Miami and a major player in the MRO market in the Americas. Johann Panier held a variety of senior positions at Air France Industries from 2004 to 2014, in particular as head of Business Development. In July 2014, he took over running Barfield before his 2015 appoint-

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February 19-20, 2019 – Palma de Majorca, Spain

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Johann Panier

ment as CEO of Aero Maintenance Group, another major Group subsidiary in the U.S. He went on to merge the two entities in order to build a stronger MRO component provider that delivers quality and innovative services to customers.

- CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co. has appointed **Nick Hazeldine** as the company’s Chief Operating Officer. Hazeldine will begin his role in November 2018 and will be based in CDB Aviation’s recently opened global headquarters in Dublin. He is a seasoned aircraft leasing professional with more than 16 years of experience in asset finance, working for lessors exclusively owned by large financial institutions. Hazeldine’s background spans a number of key operational areas, such as: risk, commercial negotiation, contract management, and aircraft deliveries. In his most recent role, he was credited with establishing and leading the industry’s first aircraft leasing innovation lab. Hazeldine joins CDB Aviation from SMBC Aviation Capital where, most recently, he was Head of Innovation.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-231	Aircraft Recycling Intern.	V2533-A5	3241	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A321-231	Aircraft Recycling Intern.	V2533-A5	3251	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	29660	2007	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B737-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
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
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR 72-202	ACI Aviation Consulting	PW124B	455	1995	Now	Sale / Lease	Quentin Brasie	Qbrasie@aciaviation.com	+1 540-428-4388
CRJ-200LR	Regional One	CF34-3B1	7369	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15111	2007	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
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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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
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
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				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-10E7	Now - Sale / Exchange	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CF34-8E5A1	Oct 18 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-10E5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease				
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2A2	Oct 18 - Sale / Lease	Castelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+442071906138
(1) CF6-80C2A2	Dec 18 - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(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) CFM56-7B27	Now - Lease				
(1) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B26	Soon - Lease		Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3C1	Soon - Lease		Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) CFM56-5A	Now - Sale		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-5B6/2P	Now - Sale		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-7B24/3	Soon - Sale/Lease/Exch.		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-7B27	Now - Sale / Exchange		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775



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Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Dec 18 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26	Jan 19 - Sale / Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(2) JT8D-219	Now - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
(1) JT8D-217C	Now - Sale				
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	Soon - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	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) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW124B	Now - Sale/Lease/Exch.				
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	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				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcMorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryns	rkryns@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4168	Soon - Sale	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
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
(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	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5	Now - Sale / Exchange	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(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/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent5562 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(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				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
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	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
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
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werneraero.com	+1 201-661-6804
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368