

Weekly Aviation Headline News

WORLD NEWS

Qatar Airways launches cargo services to Almaty

Qatar Airways Cargo has commenced freighter operations to its second new destination in 2019, Almaty in Kazakhstan, offering more than 200 tonnes of capacity each week to the Kazakh city. The twice-weekly Boeing 777 freighters depart Doha on Thursdays and Sundays, arriving in Almaty on the same day. On the return, the freighters arrive into Doha via Hong Kong.

Britten-Norman launches new lease options

Britten-Norman, the aircraft manufacturer, has delivered the first aircraft from its newly established leasing service. The company's leasing arrangements have previously been the preserve of customers who are enjoying the benefits of Britten-Norman's bespoke aircraft delivery programme. The new service is now open to any qualifying customer that has a compatible leasing requirement, be that based on a project, a season or a long-term requirement.

Rome Fiumicino nets new route to Nairobi with Kenya Airways

Kenya Airways plans to launch four weekly 787 direct flights to Rome from Nairobi this June. Kenya Airways had previously operated from Fiumicino until June 2012, and with the resumption of flights to Italy, this will bring the destinations the SkyTeam carrier serves in Europe to five and 55 worldwide. With this new service, Kenya Airways will offer connections from Rome via its Nairobi hub to its 43 destinations in Africa.



A project is now underway, within NATS' bespoke Digital Tower Laboratory at LHR.

Photo: Heathrow Airport

Heathrow Airports trails AI

Technology will help cut delays

The air traffic management service, NATS has begun a trial to understand whether Artificial Intelligence (AI) could be used to help reduce flight delays.

A project is now underway, with in NATS' bespoke Digital Tower Laboratory, at Heathrow Airport to test whether a combination of ultra HD 4K cameras along with state-of-the-art AI and machine learning technology can be used to help improve the airport's landing capacity in times of low visibility and improve punctuality.

Heathrow's 87-metre-tall control tower is the highest in the UK and provides commanding views of

the airport and surrounding landscape, but its height can also mean it disappears into low cloud, even when the runways below are clear.

In those conditions, where the controllers have to rely on radar to know if an arriving aircraft has

NATS is deploying 20 ultra-high-definition cameras at the airfield, the views from which are then fed into an AI platform called Aimee, developed by the Canada-based Searidge Technologies. The Aimee platform can interpret the images, track the aircraft and then inform the controller when it has successfully cleared the runway. The controller then makes the decision to clear the next arrival.

NATS believes the system will help the airport reclaim all the lost capacity.

Andy Taylor, NATS Chief Solution Officer, said: "Safety is always our top priority and Artificial Intelligence is about supporting air

"Safety is always our top priority and Artificial Intelligence is about supporting air traffic controllers."

Andy Taylor, NATS Chief Solution Officer

left the runway, extra time is given between each landing to ensure its safety. The result is a 20% loss of landing capacity, which creates delays for passengers and knock-on disruption for the rest of the operation.

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traffic controllers. While they remain the decision makers at the heart of the operation, we can use it to provide new tools that help them make the best possible decisions and improve efficiency and safety.

“Right now, we’re focusing on when the control tower is in low cloud, where I’m confident we can make a very positive difference, but I am convinced that this technology can totally revolutionise how air traffic is managed at airports around the world.”

The trial is part of a £2.5 million investment NATS has made in a ‘digital tower laboratory’ located inside the Heathrow control tower. There, it is working with the airport to understand how technology could support the air traffic operation now and in the future.

AIRCRAFT & ENGINE NEWS

Air Lease Corporation places one Boeing 737 MAX 9 on lease with Samoa Airways

Air Lease Corporation has announced the lease placement of one new Boeing 737 MAX 9 aircraft on long-term lease with Samoa Airways, the flag carrier airline of Samoa. The aircraft will feature two CFM LEAP-1B27 engines and is scheduled to deliver in Spring 2019 from ALC’s order book with Boeing. “This will be the first new Boeing 737 MAX 9 in the South Pacific region and will operate a frequent schedule from Samoa to Australia and New Zealand,” said Matthew Stevens, Assistant Vice President of Air Lease Corporation. “We are delighted to lease this new Boeing 737 MAX 9 jet from ALC for our flagship international routes, offering the most modern and economical aircraft for our airline,” said Alvin Tuala, Chief Executive Officer of Samoa Airways.

SAS expands fleet with lease of three A321LR aircraft

SAS has signed a leasing agreement with ALC (Air Lease Corporation) which means SAS will expand its aircraft fleet with three Airbus A321LR. This gives SAS an opportunity to offer travelers more intercontinental routes, fewer stopovers and shorter travel times to and from Scandinavia. The first aircraft will enter into service in the first half of 2020. The Airbus A321LR is a narrow-body aircraft type specially configured to fly longer distances than a standard A321neo. The aircraft has sufficient range to reach Northeast U.S. from Scandinavia, one of the most important intercontinental markets for SAS. The A321LR can also reach destinations in Canada, the Middle East and India from Scandinavia. SAS is now in the process of deciding on the first routes and cabin configuration of the aircraft. The new routes will gradually be communicated from spring 2019.

Asia Pacific Airlines acquires third 757-200 for PCF conversion

Asia Pacific Airlines has acquired a Boeing

Lessors struggle to repossess jets from Avianca escalates



Photo: AirTeamImages

At least 20 jets are at the center of a struggle by lessors to obtain possession after the ailing Brazilian airline fell behind with lease payments. Last Friday (Jan.18) Brazil’s aviation regulator ANAC confirmed it would no longer ground ten jets, while another lessor ramped up its efforts to take possession of a further ten aircraft. Both Aircastle Ltd and General Electric Capital Aviation Services (GECAS) have struggled to take back possession of these aircraft after Avianca filed for bankruptcy protection back in December 2018. Last Thursday ANAC confirmed it would ground ten aircraft at the request of GECAS, but a day later advised it was no longer prepared to intervene in the dispute. Separate to GECAS’ dispute, a representative for U.S.-listed Aircastle confirmed last Friday the firm would be filing an appeal of a legal order that stayed repossession of Avianca Brasil’s planes for 15 days until Feb. 1. Aircastle has 10 planes on lease to Avianca Brasil which is its biggest customer. According to Reuters, Avianca Brasil said in a statement that it “continues operating normally,” but did not directly address a question on how an appeal from Aircastle could affect its operations. According to the legal order which the lessors signed, the 15-day stay on repossessions was requested by a bankruptcy judge in Sao Paulo after the airline and its lessors failed to reach an agreement at a hearing last Monday. However, Aircastle said in a statement that the leasing firms did not agree with the judge’s decision, commenting that “His decision is completely contrary to the Cape Town Convention.” This was in reference to a little-known international treaty that allows for swift repossession of aircraft which both Brazil and the United States have signed.

757-200, MSN 25140. The acquisition was arranged by Aerolease Aviation and the asset has entered conversion at Flightsar Aviation in Jacksonville, FL with re-delivery expected in 120 days. The aircraft will return to service after conversion and will be joining two other

Asia Pacific 757-PCF’s converted by Precision and operating in the Asia Pacific theater. Precision’s Vice President of Sales and Marketing, Brian McCarthy, has stated that: “Asia Pacific’s transition from 727 operations to the 757 has been remarkable and has given them signifi-

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AIRCRAFT & ENGINE NEWS

cant range and reach with the necessary performance, flexibility and fuel savings to operate in this demanding environment. This has transformed their route structure as a direct result of the added payload and range. “We are thrilled to have a third PCF aircraft joining our fleet as the demand for our service expands. The 757 performs extremely well under the demanding route structure of Pacific Theatre operations requiring long range and high payload,” said Asia Pacific Airlines President, Adam Ferguson.

Elevate Capital Partners successfully completes third aircraft transaction

In June 2018, Elevate closed on its first transaction, wherein it arranged, structured and managed the lease return of a Boeing 767-300ER (MSN 25449) from American Airlines, and subsequent induction into IAI Bedek (Tel Aviv) for cargo conversion on behalf of a major financial institution. The freighter conversion was completed in December 2018 and the aircraft commenced operations under lease with Cargojet Airways this January. In October 2018, Elevate closed on its second transaction, the acquisition of an Airbus A330-200 (MSN 343) on lease to Air Caraïbes Atlantique, which operates on routes between Paris and the Caribbean. The transaction was completed in conjunction with a large financial institution. In January this year, Elevate closed on its third transaction, the acquisition of a 757-200 (MSN 27971) on lease to Air Astana.

GE Aviation’s Passport engine enters service on Bombardier Global 7500 business jet

GE Aviation’s Passport, the first ultra-long-range business jet engine, officially entered service on Dec. 20 during a ceremony by Bombardier Business Aircraft celebrating the delivery of its first Global 7500 luxury aircraft. This milestone was complemented by news on Dec. 18 that GE Aviation secured type certification for Passport by the European Aviation Safety Agency (EASA). Passport was certified in 2016 by the Federal Aviation Administration. Passport production engines are manufactured and maintained at GE Aviation’s facility in Strother, KS, where an extensive production ramp-up continues as planned. Passport engines are ground tested at GE Aviation’s test site in Peebles, OH with the same rigor as GE’s commercial engines. Twelve Passport engines and a dedicated team were used in the rigorous ground and flight test program.

Boeing successfully completes first test flight of autonomous passenger air vehicle (PAV) prototype



Passenger Air Vehicle (PAV)

Photo: Boeing

Boeing has successfully completed the first test flight of its autonomous passenger air vehicle (PAV) prototype in Manassas, Virginia. Boeing NeXt, which leads the company’s urban air mobility efforts, utilized Boeing subsidiary Aurora Flight Sciences to design and develop the electric vertical takeoff and landing (eVTOL) aircraft and will continue testing to advance the safety and reliability of on-demand autonomous air transportation. The PAV prototype completed a controlled takeoff, hover and landing during the flight, which tested the vehicle’s autonomous functions and ground control systems. Future flights will test forward, wing-borne flight, as well as the transition phase between vertical and forward-flight modes. This transition phase is typically the most significant engineering challenge for any high-speed VTOL aircraft. Powered by an electric propulsion system, the PAV prototype is designed for fully autonomous flight from takeoff to landing, with a range of up to 50 miles (80.47 kilometers). Measuring 30 feet (9.14 meters) long and 28 feet (8.53 meters) wide, its advanced airframe integrates the propulsion and wing systems to achieve efficient hover and forward flight.

British Airways to paint aircraft with much-loved designs from airline’s history



A Boeing 747 long-range wide-body four-engined commercial jet airliner for the BOAC- British Overseas Airways Corporation
Photo: British Airways

As part of its 100th birthday, British Airways will be painting four of its aircraft in much-loved retro designs from across its past, with the first confirmed as a Boeing 747 in a British Overseas Airways Corporation (BOAC) design. The livery from the 1964 – 1974 BOAC era will adorn a B747, reg: G-BYGC. The aircraft will leave the paint shop in Dublin and arrive at Heathrow on February 18, before entering service the following day. This coincides with the 50th anniversary of the first Boeing 747 flight only a few days earlier. The BOAC 747 will be followed by three other aircraft which will all have different retro liveries, with details being revealed in due course. All four aircraft will fly British Airways’ routes, proudly showcasing some of the popular designs as part of the airline’s centenary celebrations. All new aircraft entering the fleet, including the A350, will continue to receive today’s popular Chatham Dockyard design – meaning five designs from across British Airways’ history will be in operation.

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WestJet takes delivery of first 787 Dreamliner



WestJet takes delivery of the first of ten 737 Dreamliners *Photo: Boeing*

Boeing has delivered the first of ten 787 Dreamliners to WestJet, marking the start of the airline’s global expansion. Having long operated a fleet of Boeing single-aisle jets, WestJet will use the super-efficient, long-range 787-9 Dreamliner to profitably serve new international routes. This spring, WestJet will use the 787-9 – the longest-range Dreamliner that can fly 7,635 nautical miles (14,140km) – to offer the first-ever flight connecting Calgary and Dublin. The airline will also offer non-stop Dreamliner service between Calgary and London Gatwick, and Calgary and Paris. WestJet’s 787-9 will accommodate 320 passengers in a three-class configuration. The Dreamliner’s passenger-pleasing interior, which includes large windows, lower-cabin altitude and smooth-ride technology, complements WestJet’s all-new business cabin featuring the carrier’s first lie-flat seats.

SMBC Aviation Capital orders 65 A320neo Family aircraft



Aircraft lessor SMBC signs order for 65 A320neo aircraft *Photo: Airbus*

Aircraft lessor SMBC Aviation Capital has boosted its total order book for the A320neo Family to 181 aircraft after signing a firm order for an additional 65 A320neo Family aircraft (15 A321neos and 50 A320neos). The order was finalized in 2018 and was included in the year-end order figures. In addition, the agreement includes an upsizing of 15 A320neos from a pre-existing order to 15 of the largest member of the single-aisle jet, the A321neo, taking SMBC Aviation Capital’s total for the type to 30. With its unbeatable seat-mile cost, longer range and wider cabin, the A321neo offers airlines the flexibility to expand their networks using wide-body cabin benefits on new longer-haul routes which were not previously possible with a single aisle jet.

GA Telesis buys two E170 aircraft on lease with Republic Airways



Last month, GA Telesis (GAT) completed the acquisition of two Embraer E170 aircraft which are subject to multi-year leases with Republic Airline, which increases its total fleet with Republic to eight aircraft. “Republic Airline has been a great airline partner for GA Telesis and we are very pleased to increase our exposure to such an outstand-

ing operator,” commented Marc Cho, President, GA Telesis’ Leasing Investment Financing & Trading (LIFT) Group. The transaction was executed by GA Telesis Aviation Investments 2 LLC (GAIN 2), an aviation investment vehicle managed by GA Telesis Capital Management and co-funded by GAT and Wafra Capital Partners with a commitment of US\$500 million. Over the past several months, GA Telesis has acquired 12 aircraft into GAIN 2 valued at over US\$200 million.

Cebu Pacific takes delivery of first A321neo



The first A321neo for Cebu Pacific *Photo: Airbus*

Cebu Pacific, the largest low-cost carrier in the Philippines, has taken delivery of its first A321neo. The new addition complements the Manila-based airline’s Airbus fleet, which currently includes 43 A320 Family aircraft and eight A330-300 wide-bodies. Cebu Pacific has ordered 32 A321neo aircraft directly from Airbus and will receive another five A320neos leased from Dublin-based Avolon. These will support the carrier’s expansion and fleet renewal program. The A321neo aircraft for Cebu Pacific features 236 seats in a single-class configuration. The aircraft is powered by Pratt and Whitney Pure-Power GTF engines.

AIRCRAFT & ENGINE NEWS

DAE's managed aircraft portfolio grows to 54 aircraft

Dubai Aerospace Enterprise (DAE) is continuing to make strong progress in building its managed aircraft portfolio. In 2018 DAE concluded transactions adding 19 aircraft to the portfolio valued at over US\$500 million, taking DAE's total managed fleet to 54 aircraft.

DAE is growing its managed portfolio both through sales of assets targeted for divestment and by working with investors to identify portfolios specifically suited to their needs and available in the market. DAE's Aircraft Investor Services (AIS) offering provides investors access to the full expertise across the DAE platform including substantial in-house capabilities related to asset re-marketing, asset valuation, asset disposition strategy, maintenance condition forecasting and valuing, asset surveillance, and credit analysis.

Airbus Helicopters sees strong sales increase in 2018

Airbus Helicopters delivered 356 rotorcraft and logged gross orders for 413 helicopters (net: 381) in 2018 (up from 350 gross orders in 2017), maintaining its lead in the civil & parapublic market while reinforcing its position in the military market thanks to key successes with international campaigns. The company also booked 148 orders for light twin-engine helicopters of the H135/H145 family and secured 15 orders for the next-generation H160. At the end of last year, the overall backlog increased to 717 helicopters. In 2018, Airbus Helicopters delivered the first of 100 H135s for China in Qingdao, where a dedicated final assembly line will serve the growing demand of the Chinese market for civil & parapublic helicopters. Meanwhile, Hong Kong Government Flying Service took delivery of the first H175s in public services configuration. Last year also proved successful for the Super Puma family which demonstrated its versatility by being selected in key military campaigns, while attracting new civil & parapublic customers with repurposed H225s previously operated on the oil and gas market. Likewise, 2018 proved to be a very positive year for the NH90, which attracted orders for 28 units in Qatar while being selected by Spain in the frame of a follow-on order for 23 units. Key program milestones were achieved in 2018, including the power-on and ground testing of the CityAirbus electric vertical take-off and landing (eVTOL) technology demonstrator, ahead of a maiden flight expected early 2019. The first H160 in serial configuration entered flight trials in 2018, while the VSR700 unmanned aerial system demonstrator performed its first unmanned flights at the end of the year.

AJW Technique achieves Japan Civil Aviation Bureau (JCAB) approval



AJW achieves JCAB approval

Photo: AJW

AJW Technique has achieved Japan Civil Aviation Bureau (JCAB) approval under the Bilateral Aviation Safety Agreement (BASA) between Transport Canada (TCCA) and the Japan Civil Aviation Bureau (JCAB). The news sees AJW Technique become the first independent components MRO to gain this approval under the Bilateral Agreement, a notable achievement for the business. JCAB is the latest authority to add to the growing number of regionally specific approvals already achieved by AJW Technique, the AJW Group's Montreal-based MRO. The certification achieved under the Technical Arrangement for Maintenance between Japan and Canada enables AJW Technique to supply new support capabilities and supply chain efficiencies to trade businesses who are looking at supporting operators directly in Japan. The considerable coverage of the region allows consolidation of customer vendor bases and subsequently, reduces administrative strain. AJW Technique now holds a total of nine global approvals, which include TCCA (Canada), which is also accepted by FAA (USA), EASA (Europe), CAAC (China), ANAC (Brazil), CAAS (Singapore), DGCA (Indonesia) and HKCAD (Hong Kong).

MAC Aero Interiors lands TUI Group with Boeing 767 retrofit works



MAC Aero Interiors signs four-year contract with TUI Group
Photo: MAC Aero Interiors

MAC Aero Interiors, has signed a four-year contract with TUI Group for the refurbishment and retrofit of its Boeing 767's lavatories. The new cooperation between TUI Group and MAC Aero Interiors covers the production of 20 lavatory units for TUI's Boeing 767-300 fleet. Under the contract, MAC Aero Interiors will develop and produce new lavatory kits, containing LED lights, mirrors, Corian worktops, new floor pans and other modern convenience elements. The kits for the first two aircraft will be produced in 2019, the remaining ones in 2020. Following the delivery, MAC Aero Interiors will support the refurbished aircraft with lavatory spare parts supply and maintenance.

Weston Aviation FBO open for Business at Gloucestershire Airport



Weston Aviation, the U.K. and Ireland-based FBO and Business Aviation specialist has commenced operations and launched a new Business Aviation Centre and FBO at Gloucestershire Airport (EGBJ/GLO). The new facility and service officially opened its doors on the January 7, 2019 and the FBO has already welcomed a number of visiting aircraft and crews. The new FBO facility, located in the main terminal building, offers crew and passenger lounge facilities with direct ramp access for passengers and vehicles. Established in 1995, Weston Aviation is the second-largest FBO network in the U.K. and Ireland in terms of locations with additional FBO facilities at Cornwall Airport Newquay, Humberside International Airport and Cork Airport in Ireland. Weston Aviation also provides aircraft charter services, aircraft leasing, and fuel services.

West Star Aviation completes new hangar at ALN



West Star Aviation's new hangar at East Alton, IL

Photo: West Star Aviation

West Star Aviation has completed the construction on a new 60,000 ft² hangar at its East Alton, IL (ALN) location. The state-of-the-art hangar is now operational and accepting customers for service. The hangar features 40,000 ft² of hangar space and 20,000 ft² of back shop and office space which supports West Star's growing capabilities, allowing the company to fully expand upon existing aircraft maintenance programs. This additional growth will initially employ 28 technicians to support the expansion, in addition to their existing hiring efforts. "We are excited to expand our East Alton facility. With the new hangar completion, we occupy over 380,000 ft² of space at the St. Louis Regional Airport," said Scott Sweeney, General Manager, West Star Aviation. "Having a new hangar provides us the added capacity to continue offering world-class service to our customers and ensure we meet requested deadlines," Sweeney added.

MRO & PRODUCTION NEWS

Liebherr to supply Boeing 787 Nose Wheel Steering Remote Electronic Unit

Liebherr-Aerospace has been selected by Boeing to deliver the Nose Wheel Steering Remote Electronic Unit for the 787 Dreamliner. This contract from Boeing marks an important milestone in Liebherr's stand-alone electronics strategy to bring the modular technology of ultra-versatile remote electronic units to the skies. One unit of the Remote Electronic Unit (REU) is installed per aircraft. It provides closed loop control of the nose wheel steering angular position. The REU responds to commanded steering angles received via CAN bus by providing outputs to a solenoid valve and servo valve that control the supply of hydraulic fluid to the steering actuators. The electronic architecture of this unit is based on the ingenious concept of Liebherr's ultra-versatile REU which offers high reliability. Liebherr-Aerospace Lindenberg GmbH, Lindenberg (Germany), Liebherr's center of excellence for flight control and landing gear systems will be in charge of developing the software and the unit integration. The development of the hardware and the qualification as well as the manufacturing will be conducted in-house at Liebherr-Elektronik GmbH, Lindau (Germany), center of

Delta completes construction on engine test cell

After breaking ground nearly 18 months ago, Delta completed construction on the world's largest jet engine test cell this month. Standing 48 feet tall, with inlet and exhaust sections measuring 66 feet and 78 feet respectively, the test cell is capable of safely running a



Delta's new test cell will provide capabilities to test a new assortment of engines
Photo: Delta

mounted, stationary engine at full power with 150,000 pounds of thrust. To compare, the airline's current test cell has a 68,000 pound thrust capacity. The test cell will provide capabilities to test a new assortment of engines that will advance Delta into the future. With its 150,000 pound thrust capacity, the cell will open the door to many new, larger engine testing capabilities, including the Trent 1000, 7000 and XWB and the PW1100 and PW1500 variants of the Geared Turbofan. The ability to test larger engines reinforces Delta's commitment to offering repair capabilities for newer engine models and helps facilitate future demand. Delta will host the official grand opening of the test cell in February. Additional next steps include the proving and data validation for the cell, the commissioning of the cell with the Trent XWB engine, Trent 1000 Electric Start System installation, the Trent 1000 commissioning, correlation and production test, with the first production test taking place in late 2019. The new state-of-the-art test cell is the first cell built by a U.S. airline in more than 20 years

MRO & PRODUCTION NEWS

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AAR and Lake Superior College expand partnership

AAR, a global, independent provider of aviation services, and Lake Superior College (LSC) have announced expansion of their partnership to further enhance instruction and career prospects for students enrolled in the aviation maintenance technician program at the college's Center for Advanced Aviation. The new AAR EAGLE Career Pathway program will expand LSC's aviation maintenance technician (AMT) program to include job shadowing and mentoring opportunities, as well as academic support and monitoring. Students who pursue the Federal Aviation Administration (FAA) aircraft mechanic's certificate are eligible for up to US\$15,000 in tuition reimbursements. LSC President Patrick Johns and leaders from the community and technical college joined AAR's Ryan Goertzen, Vice President of Aviation Workforce Development, on January 24, for the official announcement at the Center for Advanced Aviation. AAR and LSC have collaborated since 2013 on marketing and recruiting, and to extend apprenticeship opportunities. AAR is introducing EAGLE Career Pathway at schools near its five U.S. aircraft repair stations. EAGLE demonstrates how students can earn portable, stackable skills credentials to earn a two-year associate degree or enter a management track. The stackable skills enable students who are interested to pursue the coveted position of FAA-certificated airframe and powerplant (A&P) mechanic. There is a predicted shortage of 189,000 new AMTs in North America through 2037, according to a Boeing study.

FINANCIAL NEWS

Safran acquires stake in OXIS Energy

Safran has acquired an equity interest in OXIS Energy through its Safran Corporate Ventures subsidiary which invests in disruptive technology businesses.

OXIS Energy, a leader in lithium-sulfur cell technology for high energy density battery systems, has already been granted 173 patents with 96 pending. Benefiting from more than 15 years of R&D in the field of lithium-sulfur chemistry, interest in its work from different industry sectors is growing significantly. Safran Corporate Ventures is participating in a £7 million (US\$9.1 million) round of fresh funding alongside Aero-tec and new investors, including Arkema. The investments made by these companies take the total capital raised to just under £24m (US\$31.2 million) and include Samsung Ventures which

Bombardier agrees to buy Global 7500 aircraft wing program from Triumph Group Inc.



Global 7500 aircraft

Photo: Bombardier

Bombardier, the Canadian plane and train maker, has signed a definitive agreement to buy Triumph Group Inc.'s Global 7500 wing program in a bid to strengthen its position as a leading aerostructures manufacturer, while also securing the production ramp-up and long-term success of the company's flagship business jet. The wing program will be incorporated into Bombardier's Aerostructures and Engineering Services segment while Bombardier will enter into a lease agreement for Triumph's Red Oak, Texas, facility to enable it to continue the production line with current staffing. "This acquisition is a perfect strategic fit for Bombardier Aerostructures," said Danny Di Perna, President, Bombardier Aerostructures and Engineering Services. "It will allow us to bring our extensive technical expertise to one of the industry's biggest growth programs, while solidifying our position as a leading wing provider. We look forward to welcoming the Triumph employees to Bombardier and ensuring the success of the Global 7500 program." The acquisition of the program's assets and obligations for a nominal cash consideration is expected to close in the first quarter of 2019, subject to certain closing conditions. Bombardier will assume ongoing working capital investments and usual costs associated with the program's production ramp-up, which are expected to fall within Bombardier's consolidated 2019 EBIT before special items and free cash flow guidance ranges, and 2020 objectives. On a business segment level, Aerostructures revenue guidance for 2019 is adjusted upwards to between US\$2.25 billion to US\$2.50 billion, reflecting additional intersegment revenues. The segment's 2019 EBIT margin before special items guidance is also adjusted to approximately 7.5%, reflecting marginal earnings from these additional sales during the program ramp-up. For 2020, the EBIT margin before special items objective of 9% to 11% remains unchanged. At Business Aircraft, the 2019 EBIT margin before special items guidance of approximately 7.5% remains unchanged. For 2020, Business Aircraft now targets 50 basis points of margin growth to approximately 8%, the low-end of the previously provided objective, reflecting the short-term impact of maturing the Global 7500 wing production process.

contributed to the fund in December 2016. The capital raised will be used to commercialize and automate the process of mass production of rechargeable Lithium Sulfur cells/modules, using state-of-the-art digital manufacturing machinery for worldwide distribution to manufacturers of vehicles. OXIS intends to focus on the aviation, defense and the heavy electric vehicles mar-

kets, such as buses and trucks. Simultaneously, OXIS announces the signature of two Joint Development Agreements with its partners. Firstly, Safran and OXIS will cooperate on high energy density battery cells for the aviation industry. Secondly, Arkema and OXIS have defined a common roadmap to further improve battery lifetime and energy density.

FINANCIAL NEWS

United Technologies reports 2018 net income of US\$5.3 billion

United Technologies Corp. has reported fourth-quarter and full-year 2018 results above expectations and announced an outlook for continued sales, earnings and free cash flow growth in 2019. Full-year sales of US\$66.5 billion were up 11% over the prior year, including 8 points of organic sales growth, 1 point of net acquisitions impact and 1 point of foreign exchange tailwind. The remaining 1 point of growth was driven by the adoption of the new Revenue Standard and the absence of a customer contract settlement incurred in 2017. Full year GAAP EPS of \$6.50 was up 14% versus the prior year and included US\$1.11 of net restructuring charges and other significant items, including a US\$692 million tax charge primarily related to undistributed foreign earnings. Adjusted EPS of US\$7.61 was up 14%. Net income for the year was US\$5.3 billion, up 16% versus the prior year. Cash flow from operations was US\$6.3 billion and capital expenditures were US\$1.9 billion, resulting in free cash flow of US\$4.4 billion.

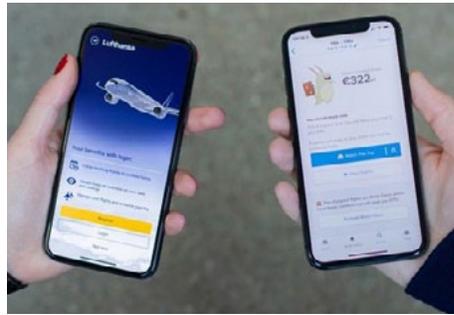
€175 million revolving credit facility for Finnair

On January 18, 2019, Finnair has signed a binding €175 million (US\$199.50 million) syndicated revolving credit facility for general corporate purposes. The coordinating bookrunner and mandated lead arranger for the facility is Nordea Bank. Danske Bank, OP Corporate Bank, Skandinaviska Enskilda Banken AB (publ) and Swedbank AB (publ) act as bookrunners and mandated lead arrangers in the facility. The loan replaces the existing €175 million syndicated revolving credit facility dated June 22, 2016, which was unutilized. The new credit facility carries a three-year tenor and has two one-year extension options. The financial covenant of the loan has adjusted gearing of 175 percent and all other terms of the facility are substantially in line with the previous transaction.

WNG Capital closes US\$345 million aircraft leasing Fund II

On the tenth anniversary of its founding, WNG Capital, an independently owned, specialist operating lessor dedicated to investing in used commercial aircraft manufactured by Airbus and Boeing, has announced the closing of WNG Aircraft Opportunities Fund II. WNG targeted a US\$300 million fund raise to invest in late-life narrow-body aircraft and is oversubscribed with US\$345 committed to date, and a final closing for two additional investors expected in Febru-

Lufthansa Group makes multi-million-dollar investment in AI Partnership with Hopper



Hopper

Photo: LHG

Finalizing their third technology-related investment within a year and after investing in Fleet Logistics and cargo.one. startups, Lufthansa Group and the Lufthansa Innovation Hub have now invested heavily in a research alliance with Hopper which will be focused on the subject of artificial intelligence. The two companies are looking to establish a long-term collaboration involving predictive analytics models and flight-demand forecasting. Hopper operates one of the world's most innovative travel booking apps. By leveraging powerful machine

learning and AI, Hopper's proprietary technology accurately predicts flight and hotel prices. Additionally, the intention is to utilize AI to learn customer preferences at a much deeper level in order to provide personalized recommendations for additional services or upgrades. According to Christian Langer, Vice President Digital Strategy, Lufthansa Group: "Hopper operates one of the world's most successful flight booking apps and has developed a unique AI-based technology. With this research alliance, the Lufthansa Group is further expanding its expertise in this area. This will enable us to provide our customers with even better data-driven, tailor-made offers in the future. This is one of the central goals of our digital strategy for this year," "We are thrilled to have Lufthansa Group and Lufthansa Innovation Hub as partners in research as we further our expansion into Europe," said Frederic Lalonde, CEO of Hopper. "The combination of local market knowledge and dedication to exploring the upper bounds of AI makes this an ideal partnership for Hopper as we double down on our efforts to bring the best in travel booking to a global audience."

easyJet reports £10 million cost impact of drones at Gatwick



Photo: AirTeamImages (easyJet)

easyJet has delivered a good performance in the quarter ending December 31 with robust customer demand driving passenger and ancillary revenue which is in line with expectations. Underlying revenue per seat was positive, including good ancillary revenue growth. This was offset, as expected, by the impact from last year's one-off revenue benefits, the dilutive impact of flying at Tegel and new accounting standards delaying the recognition of revenue. easyJet has made good progress with its cost and operational performance but both were affected by the impact of drone activity at London Gatwick over the Christmas period. Total revenue in the first quarter to December 31, 2018 increased by 13.7% to £1,296 million. Passenger revenue increased by 12.2% to £1,025 million and ancillary revenue increased by 19.9% to £271 million. Passenger numbers in the quarter increased by 15.1% to 21.6 million, driven by an increase in capacity of 18.2% to 24.1 million seats, which was slightly lower than originally planned due in part to the drone issues at London Gatwick and to late A321 deliveries from Airbus. Load factor decreased by two percentage points to 89.7%, as anticipated, due to the one-off increase in prior year late demand and the dilutive impact of Tegel flying. Total revenue per seat decreased by 4.2% at constant currency, in line with expectations. easyJet's underlying cost performance has been solid and in line with expectations before the cost impact of the drones at Gatwick. Headline cost per seat excluding fuel at constant currency increased by 1.0% in the quarter reflecting:

- A £10 million cost impact of the drones at Gatwick relating to customer welfare costs (representing c.1ppt of cost per seat in Q1). The incident affected around 82,000 customers and led to over 400 flights being canceled
- Annualization of crew pay deals; better-than-expected crew retention; some additional inefficiency relating to Gatwick disruption
- Ownership costs reflecting new aircraft year on year, some additional leasing costs resulting from late Airbus aircraft deliveries and the impact of IFRS 16 accounting. (£1.00 = US\$1.30 at time of publication.)

FINANCIAL NEWS

ary 2019. Fund II will primarily invest in mid-life to older narrow-body aircraft. The new fund will build on WNG Capital’s successful track record, generated since its 2009 inception and realized while building a portfolio of 59 mid-to-end-of-life aircraft valued in excess of US\$850 million. Fund II is expected to acquire approximately 40 to 60 Boeing and Airbus narrow-body aircraft with ages ranging from 15 to 20+ years and remaining lease terms of 12 to 48 months. Fund II is closing its first investment and has proposals outstanding for a number of suitable aircraft. WNG has an extensive global network of industry contacts and potential lessees with whom it will partner as it deploys Fund II capital.

MILITARY AND DEFENCE

Bell Boeing awarded US\$144 million for V-22 support

The Bell Boeing Joint Program Office has been awarded a \$143,863,184 firm-fixed-price requirements contract for performance-based logistics and engineering support for the V-22 platform. This is an 11-month base contract with four one-year option periods. Locations of performance are Texas and Pennsylvania for V-22 aircraft belonging to the U.S. Navy, U.S. Air Force and U.S. Marine Corps. The contracting activity is the Defense Logistics Agency Aviation, Philadelphia, Pennsylvania. In July, Bell Boeing received a US\$4 billion contract that included the manufacture and delivery of 39 CMV-22B aircraft for the Navy; 14 MV-22B aircraft for the Marine Corps; and one CV-22B for the Air Force. Under this performance-based logistics (PBL) contract, which expands on work done since 2008 and now adds support for the Navy’s CMV-22B variant, Bell Boeing will focus on improving aircraft maintainability and mission readiness for the Navy, Air Force and Marine Corps V-22 fleets.

INFORMATION TECHNOLOGY

FLYdocs, the aviation data, records and asset management solution provider, has reported exclusive integration capabilities with MRO software solution, **AMOS**. The powerful combination of the two platforms will allow airlines and MRO service providers to automatically link maintenance and engineering (M&E) work packages with a digital record of their associated data and records, streamlining M&E tasks and providing real-time access to up-to-minute and verified data for airworthiness compliance and quality audits. With a unique FLYdocs-branded interface within AMOS, developed in accordance with ATA Spec standards, FLYdocs® and AMOS users can quickly and easily access FLYdocs®’ functionality.

Dassault confirms acquisition of ExecuJet’s MRO operations



Dassault Aviation to acquire ExecuJet’s MRO operations

Photo: Dassault Aviation

Dassault Aviation has announced from its Saint-Cloud base in France that it has signed a binding agreement with Luxaviation to acquire the worldwide maintenance activities of its subsidiary, ExecuJet, this year, subject to obtaining the necessary administrative authorizations. “The acquisition of ExecuJet’s MRO (Maintenance, Repair & Overhaul) operations will strengthen Dassault Aviation’s global footprint, especially in Asia-Pacific, Oceania, Middle-East and Africa. With ExecuJet, we will continue the development of our high-quality customer support network, while growing our Falcon market share”, said Eric Trappier, Chairman and CEO of Dassault Aviation. “Since 1991, the ExecuJet network has gained confidence of clients operating a variety of aircraft types. I am very pleased with this opportunity, to develop our MRO business within the Dassault network”, said Graeme Duckworth ExecuJet’s MRO Executive Vice-President. As an international business aviation company, ExecuJet is headquartered at Zurich Airport, Switzerland with 33 facilities operating in six regions worldwide – Africa, Asia Pacific, Caribbean, Europe, Latin America and the Middle East. Established as a maintenance provider the company’s first base was established in 1991 in Johannesburg, South Africa. After substantial worldwide expansion, ExecuJet was acquired in 2015 by the Luxembourg-based Luxaviation Group. Dassault Aviation has built up expertise recognized worldwide in the design, development, sale and support of all types of aircraft, ranging from the Rafale fighter, to the high-end Falcon family of business jets and military drones. In 2017, Dassault Aviation reported revenues of €4.8 billion (US\$5.5 billion). The company has 11,400 employees.

Turkish Airlines

will launch its inaugural flight to Mexico on August 21, 2019 with a triangle route from Istanbul (IST) to Mexico City (MEX) and Cancun (CUN). The route will operate three times a week and passengers will be the first to experience



Istanbul Airport

Photo: Turkish Airways

the airline’s new B787-9 aircraft, which debuts its latest Business Class. The Mexico City – Istanbul route will be operated from Turkish Airlines’ new home at Istanbul Airport, slated to be the world’s largest once all phases are completed. The newly-opened hub, which will eventually serve up to 200 million passengers a year, will play an important role in the future of Turkey’s aviation sector as global aviation shifts eastwards, with Istanbul at the centre. The smart and innovative design of the airport, already the recipient of many design awards, will allow a streamlined travel experience for travellers flying with Turkish Airlines to enjoy the widest global network.

OTHER NEWS

Following negotiations between **Air France** management and the two unions representing its pilots, **SNPL** and **SPAF**, a tentative agreement has been reached. This draft agreement proposes changes in pilot remuneration and introduces the necessary flexibility on certain rules of use to support Air France's strategy. The SNPL Board, which met January 23, voted in favour of a consultation with all pilots on this agreement, the result of which is scheduled for mid-February.

SWISS is expanding its route network from Geneva by offering a new connection to Larnaca (Cyprus) from July 3. This coastal resort joins the list of new summer destinations announced by SWISS in December 2018. **Swiss International Air Lines (SWISS)** is adding the Cypriot city of Larnaca to its destinations departing from Geneva, offering its passengers six new destinations for the summer of 2019. With the addition of the new flights to Ibiza, Mykonos, Brindisi, Faro, Alicante and Larnaca, the company will fly to 43 direct destinations from Geneva.

In 2019, **airBaltic** will perform up to 104 weekly direct flights from Tallinn to 12 different destinations. It is an improvement of 73% compared to 2018. Martin Gauss, CEO of airBaltic said: "We are continuing to improve our offering from Tallinn. This year we are launching three more exciting destinations and increasing the number of weekly flights also on most other routes we serve from Tallinn," adding: "In order to serve the growing range of destinations, as of summer 2019 we will base two of our new Airbus A220-300 aircraft in Tallinn. This aircraft offers excellent flying experience to the passengers with such benefits as wider seats, larger windows and more hand luggage space among many others." In 2018, airBaltic carried over 440,000 passengers to and from Estonia and 14% more passengers within Estonia than the previous year.

easyJet has released that **Cathay Pacific** will be a new airline partner to its unique connections service, Worldwide by easyJet. easyJet customers will be able to connect seamlessly between easyJet flights across its European network flying into London Gatwick Airport and onwards on Cathay Pacific flights, initially between London Gatwick and Hong Kong once it is live on Worldwide in the coming weeks. Worldwide by easyJet has been consistently growing in popularity. Chicago is currently the most popular long-haul destination connecting through Rome, while the Rome-Reykjavik connection is the most popular short-haul connection. To date, more than 5,000 unique origins and destinations have been booked in combination with partner airlines.



Blue Air

Photo: BARIG

The private airline **Blue Air** with headquarters in Bucharest and French airline **APG Airlines** are as of now new members of the **Board of Airline Representatives in Germany e.V. (BARIG)**, the association representing the mutual interests of over 120 national and international airlines in Germany. The French company APG Airlines, headquartered in Paris and with the home base in Toulouse (airport Blagnac), offers scheduled flights between Toulouse and Lorient as well as individual business charter flights including VIP services. Flights are performed with a King Air 350i from the manufacturer **Beech Aircraft**. The Romanian airline Blue Air carries over two million passengers annually and commands a route network of more than 100 destinations in Europe and the Near East. The airline offers flights on a regular basis from four airports in Germany to Bucharest, Bacau, Iasi and Sibiu. The Blue Air fleet currently comprises 26 Boeing 737s and is targeted to be expanded by another twelve Boeing 737-MAX8 aircraft in 2019.

INDUSTRY PEOPLE



Patrice Provost

Nacelles employee who brings aviation industry expertise in customer support, program and IT management, along with airline-related engineering, maintenance and fleet planning. He is based at Middle River Aircraft Systems' facility in Maryland. Provost has been an Executive Vice President of Nexcelle, representing Safran

Nacelles. He retains the Executive Vice President duties at Nexcelle in addition to his new role as the joint venture's President.

- **Dan Reida**, V.P. of Sales, Marketing, and Support for Universal Avionics (UA), has announced that **Tal Golan** has been appointed to the newly created position of Rotorcraft Business Development Manager. Golan joins UA with an extensive aviation and business development background and 20 years of experience in the commercial aviation industry as a pilot of both rotor and fixed wing aircraft.

- CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., has promoted **Patrick C. Hannigan**, who has served as the company's Chief Commercial Officer since January 2017, to the position

INDUSTRY PEOPLE

of President, as part of the continued strategy to further strengthen executive management for the next phase of development. In addition to providing strategic leadership for the company as President, working with the CEO, the Board and other management to establish long-range goals and strategies, Hannigan will continue to lead the company's commercial operations as Chief Commercial Officer.

- GA Telesis' Board of Directors will appoint **Norman C.T. Liu** as an Independent Board Member effective February 1, 2019. Liu brings over 35 years of experience in aviation financing, infrastructure investing and investment banking. He is the former Chairman, President and CEO of GE Capital Aviation Services (GECAS), a world leader in commercial aircraft leasing and financing. He retired from GE at the end of 2016 after 30 years of service and is currently a senior advisor to various companies in the infrastructure and aviation sectors.

- The Alaska Airlines board of directors has elected three new company officers: **Constance von Muehlen**, Senior Vice President, Maintenance and Engineering; **Ron Calvin**, Vice President, Inflight; and **Jenny Wetzel**, Vice President, labor relations. Beginning Jan. 21, von Muehlen will lead Alaska's maintenance and engineering employees and all safety, compliance and operational performance of the airline's mainline Boeing and Airbus fleet. Most recently, von Muehlen led Horizon Air's operational performance strategy as the airline's chief operating officer, where she oversaw the customer service, inflight, pilot, maintenance and system operations control teams. Prior to Horizon, von Muehlen was Alaska's managing director of airframe, engine and component maintenance. Calvin is an Alaska Airlines veteran with more than 32 years of service. In his new role, he'll provide strategic and operational leadership for the inflight division, working with outstanding flight attendants who – day after day – make Alaska's guests' journeys remarkable with the genuine, caring service the airline is known for. As vice president of labor relations, Wetzel will serve as the strategic executive advisor on all labor relations efforts. She will be responsible for all labor matters at Alaska Airlines and will lead the collective bargaining process for the airline. She joins Alaska Airlines from Kaiser Permanente and before that Group Health in Seattle where she was the vice president

Recommended Events



Inventory Optimization & Supply Chain Management 2019
February 19-20, 2019 – Palma de Majorca, Spain

Operating Lease & Aviation Finance Seminar
March 19-21, 2019 – Gibson Hotel, Dublin, Ireland

Click here for more aviation events

of employee and labor relations since 2015.



Angus Clarke

- Angus Clarke** has been appointed Executive Vice President Strategy of Air France-KLM. He becomes a member of the Air France-KLM group executive committee and reports directly to **Benjamin Smith**, Group CEO.

His appointment will be effective as of February 1, 2019. He is responsible for defining and implementing Air France-KLM's long-term strategy in coordination with all the Group's stakeholders, as well as business development opportunities in its different entities. The Brand Strategy and Customer Insights department will report to Group General Secretary.

- Antony Snelleman** will join Aergo Capital as Co-Chief Commercial Officer & Global Head of Risk. Snelleman joins Aergo from his position as Global Head of Sales with Milestone Aviation Group, GECAS' helicopter leasing business. Prior to Milestone, he served as Senior Vice President and Region Manager Asia for GECAS where he was responsible for a portfolio of some 200-aircraft worth approximately US\$8 billion.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A320-200	ORIX Aviation	V2527-A5	3807	2007	Q1/2020	Lease	Matthew Gialopos	Matthew.Gialopos@orix.ie	+353 83 167 2233
A320-200	ORIX Aviation	CFM56-5B4/P	2620	2005	Q1/2020	Lease	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
A320-200	ORIX Aviation	CFM56-5B4/3	5213	2012	Q2/2020	Lease	Matthew Gialopos	Matthew.Gialopos@orix.ie	+353 83 167 2233
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
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
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidnitz	bristol@bristolassociates.com	+1 202-682-4000
B737-8AS	GA Telesis	CFM56-7B24	33813	2004	Now	Lease	Mauro Francazi	mfrancazi@gatelesis.com	+44 7387 418679
B737-8AS	GA Telesis	CFM56-7B24	33814	2004	Now	Lease	Kevin Ford	kford@gatelesis.com	+64 21 747 109
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopos	Matthew.Gialopos@orix.ie	+353 83 167 2233
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidnitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidnitz	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
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

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	8062	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
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 Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@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
ERJ-145LR	Regional One	AE3007A1	145768	2003	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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THE AIRCRAFT AND ENGINE MARKETPLACE

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
(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
CF34-10E5A1 NEW	Now - Lease	DASI	Ed Blyskal	ed.blyskal@dasi.com	+1 305-525-7308
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	-(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(2) CF34-8C5B1	Feb 19 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF& Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-7B26	Soon - Lease	Willis 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) CFM56-3C1	Feb 19 - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617



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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@wernerairo.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26/27	Now - 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
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
(2) PW123	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 Kryz	rkryz@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
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
(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 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.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.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 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.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.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@Werner aero.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@werner aero.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