

# Weekly Aviation Headline News

## WORLD NEWS

### Loganair announces four new routes from Cornwall Airport Newquay

Loganair continued to expand its growing network by unveiling four new routes from Cornwall Airport Newquay. The services to Newcastle, Aberdeen, Glasgow and Norwich commence in spring 2020, and will transform connectivity between the South West and the East of England and Scotland. Loganair Managing Director Jonathan Hinkles said: "We're excited to be working with Cornwall Airport Newquay and have been working for some time to develop these routes at just the right level."

### Japan Airlines and Amadeus expand partnership

As Japan Airlines (JAL) takes the next step in its global growth strategy, the airline and Amadeus announced a reinforced partnership with an extended distribution and IT agreement. Through this agreement, JAL will benefit from enhanced technology as Amadeus becomes JAL's recommended distribution partner in the Japanese market. This comes just five years after the airline announced it was to migrate to Amadeus' full Altéa Suite for reservations, inventory and departure control modules, back in 2014.

### Schiphol Group acquires stake in Australian airport

Royal Schiphol Group and QIC have won the bid for a 70% stake in Hobart International Airport in Australia. Both consortium partners will acquire a 35% stake and act as independent shareholders after the deal. Tasplan will remain shareholder for the remaining 30%. Hobart Airport, the largest airport on Tasmania and the 9<sup>th</sup> busiest airport in Australia currently handles 2.7 million passengers per year.



The Gatwick centre is equipped with state-of-the-art flight simulators. Photo: CAE

## Aviation training facility opens at Gatwick

CAE partners with easyJet

Continuing their global expansion and investment in Europe, CAE inaugurated their latest aviation training centre at London Gatwick Airport.

Equipped with state-of-the-art flight simulators, the new centre provides advanced training facilities for Europe-based airlines, including easyJet, with whom CAE signed a 10-year exclusive pilot training agreement in 2018.

On a daily basis, the CAE London Gatwick training centre have the capacity to host over 500 people a day, including pilots, cabin crew, and

technicians. The centre is currently the home to seven CAE 7000XR Series full flight simulators (FFS) from the Airbus A320-family, A350 and Airbus A330 platforms. By the end

The new aviation centre is capable of training around 13,000 pilots a year, supporting the demand for commercial pilots, that continues to grow at an accelerated pace. For

**"We are delighted to be celebrating the launch of this brand-new, state-of-the-art pilot training facility."**

*David Morgan, easyJet interim Chief Operations Officer*

of 2020 that number will increase to 13 full-flight simulators. CAE will add a new Boeing 787 simulator and relocate five full-flight simulators from the current CAE Gatwick centre; two A320, one B757/767, one B737NG, and one E190.

Marc Parent, President and CEO of CAE, "These new training centres and our expansion in Europe underscore the important role that CAE plays in helping the industry build and grow a strong pipeline of professional pilots."

Nick Leontidis, Group President of Civil Aviation Training Solutions, CAE said "We will need more than

*Continued on page 3*

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300,000 more pilots over the course of the next ten years. We are here at London Gatwick centre, that will be equipped with 13 simulators, to serve many companies. We also inaugurated a centre in Manchester, and we will open another one this month in Milan. That's a lot of expansion to fit this pilot demand."

It was an historical day for easyJet too, according to David Morgan, the airline's interim Chief Operations Officer, "we are delighted to be celebrating the launch of this brand-new, state-of-the-art pilot training facility". In addition to the full flight simulators, easyJet will be the first airline to use two, new generation of fixed flight training devices, the CAE600XR.

"We know that a key element of success is to have the very latest standard of training devices, which accurately reflect the modern fleet of aircraft that we have.

"We are delighted to be partnered with CAE as a trusted manufacturer and training provider. We are confident that this partnership will ensure that easyJet pilots will continue to be regarded as the best pilots in the world."



Marc Parent with David Morgan, the COO at easyJet

Photo: CAE

## AIRCRAFT & ENGINE NEWS

### Airbus Helicopters and EASA sign MOC to bring next generation of VTOL platforms to life

Airbus Helicopters and EASA have signed a Memorandum of Cooperation aimed to harness their respective experience and know-how to bring the next generation of VTOL platforms to life, along with the necessary regulatory framework to support them. "I am very pleased to be joining efforts with EASA to build a common framework for the next generation of vertical lift solutions over the next decades," said Bruno Even, CEO of Airbus Helicopters. "Innovation that benefits customers is at the heart of Airbus Helicopters' strategy. We are committed to working hand in hand with the authorities on our innovation projects with the same professional approach

### BOC Aviation delivers third Boeing 787-9 to Air Europa

BOC Aviation has delivered the third of seven new Boeing 787-9 Dreamliners committed for lease to Air Europa under a purchase-and-leaseback transaction. One more aircraft will be delivered in the fourth quarter 2019, with the remaining three aircraft scheduled for delivery by the end of the fourth quarter of 2020. All seven aircraft are to be powered by Rolls-Royce Trent 1000 engines.



BOC Aviation delivers the third Boeing Dreamliner to Air Europa

Photo: AirTeamImages

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## AIRCRAFT & ENGINE NEWS

that drives the design and certification of our current product range.” The areas of cooperation covered by this agreement include high-speed flight with the Racer demonstrator, the certification of new piloting assistance systems such as Airbus Helicopters’ EAGLE technology, the thermal/electrical hybridization of rotorcraft, including electric vertical take-off and landing systems (eVTOLs), and condition-based maintenance.

### Further problems for Boeing 737 Family as FAA orders inspection for wing support cracks

Boeing has been ordered to begin carrying out inspections on all 737 NG models, namely the 737-600, -700, -800 and -900. The currently troubled 737 MAX is excluded from the FAA order. The problem concerning the cracking came to light when a number of 737-800s were being converted from passenger aircraft to cargo aircraft. The FAA has demanded the immediate inspection (within the next seven days) of 165 registered 737-800s, all of which have clocked a great many flight hours. According to the FAA, if the problem is not effectively addressed, the cracking could: “adversely affect the structural integrity of the airplane and result in loss of control of the airplane.” The FAA statement relating to this order indicated that Boeing “discovered the cracks while conducting modifications on a heavily used aircraft. Subsequent inspections uncovered similar cracks in a small number of additional planes.” The part is called a pickle fork. While the order will ultimately affect over 2,000 aircraft, the urgency of inspections will depend on the number of flight hours performed by each individual aircraft and further inspections will be required based on thresholds hit. Southwest Airlines has a fleet of approximately 700 737 NGs, none of which will require immediate inspection, while United Airlines confirmed it has no 737 NGs requiring immediate inspection but 80 will require inspecting in the near future. American Airlines has 304 737 NGs but has confirmed that none will require immediate inspection, while Delta Air Lines has a fleet of 200 737 NGs, of which 50 are affected by the FAA’s inspection order, but none require immediate inspection. Inspections of the wing supports is estimated to take approximately one hour.

### The first A350-900 for Air France



Air France takes delivery of its first A350-900 aircraft

Photo: Airbus

Air France has taken delivery of its first A350-900, the world’s most efficient all-new-design wide-body aircraft. Air France will deploy the A350-900 fleet on its transatlantic and Asia routes. The Xtra WideBody aircraft features a comfortable three-class layout with 324 seats including 34 full-flat business, 24 premium economy and 266 economy-class seats. Fully in line with Air France’s commitment to the environment, the all-new A350-900 will provide a 25% reduction in fuel burn and CO2 emissions. Additionally, the aircraft’s delivery flight from Toulouse to Paris will be powered with a blend of conventional and synthetic biofuel. Air France operates an Airbus fleet of 143 aircraft. It includes 114 single-aisle and 29 wide-body planes. In addition, the airline recently opted to purchase Airbus’ newest aircraft family member, the A220.

### Embraer Praetor 500 receives EASA and FAA approval



The Praetor 500 receives EASA and FAA type certification

Photo: Embraer

Embraer’s new Praetor 500 midsize business jet was granted its Type Certificate by the EASA (European Union Aviation Safety Agency) and by the FAA (Federal Aviation Administration). The Praetor 500 received regulatory approval from Brazil’s Civil Aviation Authority (ANAC—Agência Nacional de Aviação Civil) in August, less than a year after having been announced in October 2018 at NBAA-BACE. The Praetor 500 surpassed its certification goals achieving an intercontinental range of 3,340 nautical miles (6,186 km—NBAA IFR Reserves with four passengers), a high-speed cruise of 466 KTAS, a full-fuel payload of 1,600 lbs (726 kg), a takeoff distance of only 4,222 ft (1,287 m) and an unfactored landing distance of 2,086 ft (636 m). For a 1,000-nautical-mile mission, the take-off distance is a mere 2,842 ft (867 m).

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## Saudi Arabian Airlines takes delivery of first 787-10 Dreamliner



SAUDIA has taken delivery of its first 787-10 Dreamliner from Boeing

Photo: Boeing

Saudi Arabian Airlines (SAUDIA) has taken delivery of its first 787-10 Dreamliner from Boeing. The new aircraft will play a key role in the airline's fleet and network expansion. The largest member of the Dreamliner family sets the benchmark for fuel efficiency and operating economics and will complement SAUDIA's fleet of 787-9s. In addition to the 787-10, SAUDIA operates 13 787-9 Dreamliner airplanes, and 33 777-300ER (Extended Range) jets.

## Virgin Galactic and Italian Air Force sign first government contract for human-tended research flight



Photo: ©Virgin Galactic SpaceShipTwo

Virgin Galactic has signed a new contract with the Italian Air Force for a research flight onboard the company's SpaceShipTwo system during which Italian researchers will actively conduct experiments while they are in space. The contract marks the first time a government department has funded a human-tended research flight on a commercial space vehicle. The mission, set to take place as early as 2020, will fly three Italian payload specialists and a rack of research payloads. The Italian Air Force payload specialists and Virgin Galactic's payload team are working with the Italian National Research Center (CNR) on the design of the experimental payloads. Virgin Galactic's SpaceShipTwo system is designed to fly both humans and payloads to space for tourism and research purposes. The company offers an end-to-end solution for payload flights that includes the use of SpaceShipTwo and its carrier aircraft VMS Eve, along with the hardware, processes, and facilities needed for a successful campaign. Virgin Galactic's platform offers routine, reliable, responsive, and affordable access to the upper atmosphere and space that can accommodate a large volume and mass for research payloads. The company has already flown payloads to space through the NASA Flight Opportunities Program. Human-tended research onboard SpaceShipTwo allows a dynamic approach to space-based science with researchers able to actively engage with their experiments, responding to developments in real time, optimizing the effectiveness of the research. Experimentation with humans-in-the-loop may also improve reliability by removing the unneeded complexity of building in automation. Virgin Galactic will be able to provide these benefits to the research community at levels of repeatability, affordability and quality of micro-gravity which have been historically unavailable in human spaceflight. During the spaceflight, following shutdown of the rocket motor, researchers will unclip from their seats and undertake the actions necessary to complete each experiment during several minutes of zero gravity. The company will provide training and preparation for the researchers so that they are fully equipped to carry out their job as mission specialists on this flight and provide onsite pre-flight support for each of the payload experiments. The payload will include medical instrumentation that will measure the biological effects of the transitional phase from gravity to micro gravity on the human body. Other testing equipment may be used to help develop a new understanding of the chemistry of green fuels.

### Tecnam delivers first two P2012 Travellers to Cape Air



The P2012 Traveller on its way from Groningen, Netherlands to Inverness, Scotland

Photo: Tecnam

Tecnam has delivered the first two P2012 Travellers to U.S. customer Cape Air. With the ferry flight from Capua in Italy to Massachusetts, U.S., the P2012 Traveller is officially born and in service. These first two aircraft represent the first batch of the 100 Travellers ordered by Cape Air as a result of a thorough and intensive development process in conjunction with Tecnam. Powered by two 375 HP turbo-charged Lycoming engines, the 11-seat Tecnam P2012 Traveller has a fuel capacity of 750 liters in the wings, but on the ferry flight to the U.S. — the longest ever for Tecnam — the planes carried an extra 450 liters in a collapsible ferry tank in the rear of the aircraft, significantly extending its range. There were fuel stops in five different countries. The first airport was Groningen Airport in the Netherlands, followed by Inverness in Scotland and Reykjavic in Iceland. Next came Narsarsuaq in Greenland and the final refueling was at Goose Bay Airport in Canada, before heading south to Barnstable Airport in Hyannis, Massachusetts, U.S.

### Gulfstream receives order from Philippine Air Force

The Philippine Air Force has established a contract through the United States government to purchase a Gulfstream G280™ as well as parts, tooling and contractor logistics support. The aircraft will be configured for command and control missions and is slated for delivery in 2020. The G280 has a maximum range of 3,600 nautical miles/6,667 kilometers at its long-range cruise speed of Mach 0.80 and a high-speed cruise of Mach 0.84. The aircraft can fly eight hours nonstop and can connect Dubai to Hong Kong, Singapore to Melbourne, Australia, or Singapore to Dubai. Gulfstream has produced special mission aircraft for more than 50 years. Aircraft can be configured for head-of-state and VIP transport; command and control; airborne early warning; medical evacuation; high-altitude atmospheric research; and intelligence, surveillance and reconnaissance. More than 205 Gulfstream aircraft support governments and special missions in more than 40 countries around the world.



The Philippine Air Force has ordered one Gulfstream G280 aircraft

Photo: Gulfstream

### Air Greenland orders two Airbus H225 helicopter for search and rescue



Photo: Airbus Helicopters

Air Greenland has ordered two Airbus H225 heavy helicopters to support its bid to win its home country's search and rescue (SAR) contract. Under the terms of a firm contract assisted by Airbus Helicopters, two H225s repurposed from the oil and gas industry will be delivered over the coming months to replace the ageing S-61 helicopter currently used for the service. Airbus will provide a comprehensive maintenance and support package as well as pilot and crew training. The 11-ton category, twin-engine H225 is the latest member of Airbus Helicopters' Super Puma family with more powerful engines providing a smoother ride and enhanced performance compared to earlier models.



## Singapore likely venue for Volocopter's commercial launch

Volocopter, the Bruchsal, Germany-headquartered aircraft manufacturer specializing in electric multi-rotor helicopters, has announced that Singapore is now the forerunning venue for its commercial launch. Volocopter is an 18-rotor drone electric air taxi developed with the intention of providing the capability of a short-hop air taxi service which will prove a viable option at the same price as a limousine ride. The company's principal hurdles to date have been a lack of infrastructure, regulation and safety concerns. In addition, Singapore currently lacks helipads, while strict rules concerning the flying of drones will also need to be resolved. Volocopter hopes to conduct public



Volocopter 2x flying at Helsinki international airport

Photo: Volocopter/V. Kollwig

test flights in conjunction with Singapore regulators within the next few months, while it is also eyeing up similar operating opportunities in Dubai and Germany. The current time schedule for the provision of a fully operational air taxi service is within a period of two to three years. Backed by Daimler, Intel and Chinese car maker Greely, which each hold a ten percent stake in the company, Volocopter has so far recorded over 1,000 test flights, some human-operated and others remotely or autonomously operated. Singapore has attracted Volocopter through its proactive attitude towards autonomous vehicles; currently it plans to operate unmanned buses in three of its districts beginning 2022. Speaking to Reuters news agency, joint Volocopter founder Alexander Zosel said: "For the commercial routes, we have two customers profiles: one is a business customer, so perhaps from the airport to the business centre, or for tourists flying from Marina Bay to Sentosa." Marina Bay is Singapore's business district and Sentosa is its popular resort island.

## UPS Flight Forward obtains FAA certification – now fully-fledged drone airline



UPS Flight Forward attains FAA's first full approval for drone airline

Photo: UPS

UPS Flight Forward (UPSFF), the UPS drone delivery subsidiary, has taken a major step forward in the drone delivery space having obtained certification from the Federal Aviation Administration to operate the first fully-fledged drone airline in the U.S. The Part 135 Standard certification permits UPSFF to fly an unlimited number of drones with an unlimited number of operators piloting them. Certification also allows it to carry loads in excess of the current limit of 55 pounds and to fly at night. No sooner has certification been awarded than UPSFF launched a Matternet M2 quadcopter from WakeMed's hospital campus in Raleigh, N.C. The company will continue to focus on drone deliveries of medical products and specimens, based on hospital campuses, focus particularly on North Carolina. In a statement, Transportation Secretary Elaine Chao said UPS' certification is "a big step forward in safely integrating unmanned aircraft systems into our airspace, expanding access to healthcare in North Carolina and building on the success of the national UAS Integration Pilot Program to maintain American leadership in unmanned aviation."

Commenting on the milestone achieved by UPS, company CEO David Abney said: "Our technology is opening doors for UPS and solving problems in unique ways for our customers," adding: "We will soon announce other steps to build out our infrastructure, expand services for healthcare customers and put drones to new uses in the future."

## MRO & PRODUCTION NEWS

### CAVU Aerospace acquires two Boeing 747-400 aircraft

CAVU Aerospace has acquired two Boeing ex-United Airlines 747-400 aircraft, N104UA MSN 26902 and N116UA MSN 26908, for dismantling, which has already begun. "We are committed to increasing value by delivering quality material to the aftermarket with accurate documentation," said CAVU Aerospace Founding Partner, Ken Kocalski. He continued, "the acquisition of these aircraft enhances our material service offering to continue to support the 747 market." Once material is removed from the aircraft it will be inspected on-site and will enter into the CAVUSmartTags™ removal tag system. This assures that documentation is accurate and allows for real-time visibility of the assets. After repair and overhaul, the material will be available to end users on an exchange as well as outright basis. In the very near future, CAVU Aerospace will increase its offering with the opening of its CAVU Component Repair Facility in Mesa, Arizona.

### Boeing-Embraer strategic partnership postponed to 2020

Boeing and Embraer are continuing to work closely together to establish their strategic partnership, positioning both companies to deliver greater value to airline customers and the flying public, and to accelerate growth in global aerospace markets. Since receiving approval for the partnership from Embraer shareholders in February this year, the companies have undertaken diligent planning for the creation of a joint venture made up of the commercial aircraft and services operations of Embraer. Boeing will own 80% of the new company, to be named Boeing Brasil – Commercial. Embraer will hold the remaining 20%. The transaction remains subject to regulatory approval; the two companies are actively engaged with authorities in relevant jurisdictions and have obtained a number of regulatory approvals. Following a detailed assessment by the U.S. Federal Trade Commission, the parties' strategic partnership has received clearance to close in the United States. The European Commission recently indicated it will open a Phase II assessment in its review of the transaction, and Boeing and Embraer look forward to assisting with that review. Based on this development, however, the companies now expect the transaction to close in early 2020. Boeing and Embraer are also preparing to launch a joint venture to promote and develop markets for the multi-mission medium airlift KC-390. Under the terms of the proposed partnership, Embraer will own a 51%

### FACC secures production order from Bombardier Belfast



Airbus A320neo

Photo: Airbus/A. Pecchi

FACC has received an order from Bombardier Belfast and is thus successfully expanding its customer portfolio: The company has placed an order with FACC for the production of thrust reverser trans cowl components for the A320neo aircraft family. With this order, FACC has now extended its long-standing cooperation with Bombardier in the areas of Cabin Interiors and Aerostructures including engine nacelle components. FACC was able to demonstrate to Bombardier that it has outstanding expertise in component design for manufacture as well as ultra-modern production facilities. The project marks FACC's first collaboration with Bombardier Belfast. "This new order is of great strategic importance for FACC and for the Engines & Nacelles division in particular, as the cooperation with Bombardier Belfast is an expansion of our customer and product portfolio. Through its cooperation with Bombardier Belfast, FACC is further expanding its market share on the A320 aircraft family and benefits from the global success of the aircraft," explained Günter Nelböck, Vice President Engines & Nacelle of FACC. "Stable growth of the FACC Engines & Nacelles division and the creation of secure long-term jobs in the region are thus guaranteed."

stake in the joint venture and Boeing will own the remaining 49%. Two KC-390 milestones were recently achieved by Embraer: the first KC-390 was delivered to the Brazilian Air Force, and the first international purchase was announced by Portugal.

### Jetaire receives AS9100 Certification

Jetaire has fulfilled the requirements and met the standards for certification to AS9100, the well-recognized International Quality Management System for the Aviation, Space and Defense industry. Certification to AS9100 includes certification to ISO 9001, plus additional aerospace quality and processes requirements. "We have always followed stringent procedures for our manufacturing and related

activities to ensure the highest levels of quality, safety and reliability," said Mike Williams, President of Jetaire. "Completing the review process and receiving registration to AS9100 certification demonstrates to the marketplace, as well as industry regulatory agencies, that Jetaire maintains a comprehensive system of monitoring its processes and procedures to ensure consistent adherence to industry-best practices and quality management systems." AS9100 is a widely adopted and standardized quality management system (QMS) for the aerospace industry. This standard is accepted worldwide, and the standards are identical across the globe. Sourcing from an AS9100-certified organization offers many benefits. It demonstrates that the company has a world-class QMS and that its products and services will meet clients' requirements.



## Grand opening of XEOS – aircraft engine service center



XEOS the joint venture between GE Aviation and LHT officially opened its doors

Photo: LHT

On September 30, XEOS, the new aircraft engine service center located in Środa Śląska near Wrocław (Poland), celebrated its official opening. The company is a joint venture of Lufthansa Technik (51%) and GE Aviation (49%) and is a service center for GENx-2B and GE9X engines. It was built in a record time of 16 months and the first commercial engine was accepted for repair in April 2019. At the end of 2019 a total of about 20 engines will have been inducted for service here. After reaching its maturity in 2023 the plant will repair more than 200 engines per year. The joint venture partners have invested about PLN 1 billion (US\$250 million) to construct the facility and its own training center from scratch, along with a test cell which is still in the ongoing second construction phase of the project. Ultimately, the plant will employ about 600 people. At the moment the XEOS team consists of 300 people: aircraft engine mechanics, engineers, logistics specialists and administration staff. They come not only from Środa Śląska and Lower Silesia, but from all over the world – with 12 nationalities in total.

## Airbus inaugurates new A320 structure assembly line in Hamburg

Airbus has inaugurated its highly automated fuselage structure assembly line for A320 Family aircraft in Hamburg, showcasing an evolution in Airbus' industrial production system. With a special focus on manufacturing longer sections for the A321LR, the new facility features 20 robots, a new logistics concept, automated positioning by laser measurement as well as a digital data acquisition system. These will further support Airbus' drive to improve both quality and efficiency while bringing an enhanced level of digitalization to its industrial production system. For the initial section assembly, Airbus is using a modular, lightweight automated system, called "Flextrack", with eight robots drilling and countersinking 1,100 to 2,400 holes per longitudinal joint. In the next production step, 12 robots, each operating on seven axes, combine the center and aft-fuselage-sections with the tail to form one major component, drilling, countersinking, sealing and inserting 3,000 rivets per orbital joint. Besides the use of robots, Airbus is also implementing new methods and technologies in material and parts logistics to optimize production, improve ergonomics and shorten lead times. This includes the separation of logistics and production levels, demand-oriented material replenishment as well as the use of autonomous guided vehicles. The Hamburg structure assembly facility is responsible for joining single fuselage shells into sections, as well as final assembly of single sections to aircraft fuselages. Aircraft parts are equipped with electrical and mechanical systems before eventually being delivered to the final assembly lines in France, Germany, China and the U.S.



Airbus' highly automated fuselage structure assembly line for A320 Family aircraft, located in Hamburg

Photo: Airbus



### China's Sichuan Dahua acquires Austria's 'ArrowCopter'



Photo: ArrowCopter AC-20

Sichuan Dahua General Aircraft Manufacturing Company of China has successfully acquired the entire assets of the European gyrocopter company, ArrowCopter. The transaction was brokered by consultants Aerospace Investments Co. Ltd (UK) and Silk Wings Aviation (Beijing), who are now actively assisting in the completion phase. The deal follows the recent conclusion of a formal agreement in an insolvency court in Austria. Production of the all-composite ArrowCopter will remain in Austria whilst discussions take place with several of the company's former key personnel. Sichuan Dahua General Aircraft Manufacturing Company is committed to investing in production in Europe. There will also be a parallel, complementary certification program to prepare the ArrowCopter for serial production in China. Dahua will continue to further develop the business, focusing on R&D upgrades on the ArrowCopter series, as well as streamlining production within Europe and China. The market potential for Gyrocopters in Asia is developing rapidly, especially in China, where the ArrowCopter will be certified in the Lightweight Sports (LSA category). Three Gyrocopter manufacturers

have already been certified by the CAAC (LSA) in China and are enjoying strong sales success. ArrowCopter is an innovative high-performance Gyrocopter, available in a single-seater (AC-10) and the two-seat tandem (AC-20) model. ArrowCopter has acquired sport aircraft flight certifications in several EASA countries as well as being registered in the USA in the experimental class, on a designated permit to fly.

### 737 MAX grounding hits flydubai first half 2019 financial results hard

Dubai's state-owned carrier, flydubai, has announced that the continued grounding of the Boeing 737 MAX has put the carrier under unprecedented financial pressure, resulting in a January-to-June loss of US\$53.6 million. Prior to the grounding, flydubai had anticipated expanding its current fleet of aircraft to 62, but instead this will only grow to 43 this year. flydubai is one of the largest 737 MAX customers with 14 of the currently grounded jets out of an existing order of 250. When the 737 MAX was first grounded, the airline's chairman indicated that it would turn to Airbus for replacements. However, Chief Executive Ghaith al-Ghaith, issued a statement saying: "We are in ongoing discussions with Boeing, as our long-standing partner, to resolve the unprecedented nature of this grounding and the significant impact it has had on our business and growth strategy." Having posted a loss of US\$43.6 million last year following a first-half loss of US\$86 million, the carrier was optimistic of returning to profitability this year, prior to the 737 MAX debacle. The current six-month loss is a 38% reduction when compared to the first half of 2018, while total revenue remains unchanged from the same six-month period at US\$759 million. ASKM was reported at 12,877 million; down 14.9% compared to the period ending 30 June 2018. Passenger numbers dropped to 5 million during the first six months of the reporting period; a decrease of 7.5% as a result of the reduction in capacity.



Photo: AirTeamImages, flydubai

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## FINANCIAL NEWS

### ST Engineering completes acquisition of Newtec Group NV

Singapore Technologies Engineering (ST Engineering) has announced that further to its announcement made on March 27, 2019, its subsidiary Singapore Technologies Engineering (Europe) has completed the acquisition of a 100% ownership in Newtec Group NV (Newtec) following the fulfilment of completion conditions, including the receipt of applicable regulatory approvals. This Newtec acquisition, together with the recent acquisition of Glowlink Communications Technology, which possesses advanced satellite communications anti-jamming technology, will enable ST Engineering to harness their unique capabilities to create a highly differentiated global satcom business group. ST Engineering is now in a stronger position to lead in innovation and the transformation of the satcom industry to enable Smart Cities globally. To drive higher brand visibility, Newtec will be renamed as ST Engineering iDirect (Europe) NV.

### SGS acquires majority stake in ARGUS International

SGS, the certification, verification, and inspection company, has acquired a majority stake in ARGUS International. The acquisition aims to strengthen SGS' aviation auditing and consulting services and increase market penetration through the organizations leveraged synergies. "ARGUS is a globally recognized brand name in the airline, business aviation, fixed-wing, and rotary engine markets. Its broad client base and international activities will help SGS grow and keep pace with the increasing global demand of air traffic and safety," said Frankie Ng, CEO of SGS. ARGUS International, PRISM, and ARGUS PROS will continue to operate as distinctive businesses within SGS' Certification and Business Enhancement (CBE) business unit.

## MILITARY AND DEFENCE

### Pratt & Whitney awarded with F135 production contract

Pratt & Whitney has been awarded a production contract for the 12<sup>th</sup> and 13<sup>th</sup> lots of F135 propulsion systems, powering all three variants of the F-35 Lightning II aircraft. This award represents the largest-ever F135 production contract, funding more than 332 engines for the U.S. armed services and international cus-

### Aigle Azur, France's second largest airline, closes down

Having ceased all commercial operations and filed for bankruptcy protection earlier this month, leaving 19,000 travelers stranded, Aigle Azur, France's second-largest carrier, has now closed down. Having immediately been put up for sale, those carriers who expressed interest in Aigle Azur included easyJet and Vueling, while confirmed bids to take over assets were received from Air France, Groupe Dubreuil (owners of Air Caraïbes and French Bee) and Lu Azur. While a joint bid between Air France and Groupe Dubreuil looked the most promising, legal problems relating to the conditions on which personnel would be transferred to a new owner were proving problematic. Ultimately, French courts decided that none of the rescue offers were acceptable and the bankrupt carrier closed down at midnight on Friday, September 27. This also put an end to the French government's attempts to sell off parts of the carrier in order to save approximately 1,150 jobs. Based out of Paris Orly Airport, Aigle Azur's 9,800 take-off and landing slots would have been highly prized, but these could not have been sold directly and only acquired through taking over the company. Aigle Azur flew 1.9 million passengers last year to 21 destinations, predominantly between France and Algeria, but also Brazil, Russia and China.



Photo: AirTeamImages, Aigle Azur

### U.S. Air Force awards Boeing US\$2.6 billion contract for fifth KC-46A tanker lot



John Parker/ Boeing

Photo: John Parker/ Boeing

The U.S. Air Force has awarded Boeing a US\$2.6 billion contract for 15 KC-46A tanker aircraft, spares, support equipment, spare engines and wing air refueling pod kits. With this fifth production lot, Boeing now is on contract for 67 KC-46 tankers. Boeing received its first two production lots, for 7 and 12 aircraft, in August 2016. The third lot, for 15 aircraft, was awarded in January 2017; the fourth lot for 18 aircraft in September 2018. Boeing plans to build 179 of the 767-based refueling aircraft for the Air Force to replace its legacy tanker fleet. The company delivered the first tankers to the Air Force in January 2019. Boeing received its initial contract in 2011 to design and develop the Air Force's newest tanker aircraft. The KC-46A is a multi-role tanker that can refuel allied and coalition military aircraft compatible with international aerial refueling procedures and can carry passengers, cargo and patients. Boeing is assembling KC-46 aircraft at its Everett, Wash., facility and recently started production of the first KC-46 for Japan.

## MILITARY AND DEFENCE

tomers, and includes program management, engineering support, production support, and tooling. The total contract value for Lot 12-14 is approximately US\$5.7 billion and covers all Lot 12 and Lot 13 engines, with priced options for Lot 14.

## OTHER NEWS

**Cambridge City Airport** will begin offering in-house FBO services from October, as part of its plans to grow its executive charter business in line with recent announcements. This will include aircraft, passenger and baggage handling, refueling, security, customs and immigration services. The airport will take over these services from ExecuJet, part of the Luxaviation Group, who have been providing FBO services at Cambridge since 2012. Services are expected to be fully transferred to the airport by the end of October. Cambridge City Airport is owned and managed by **Marshall Aerospace and Defence Group**, who have been making significant investment in the airport in recent months, including appointing Kevan Craske as new director, in August and revamping the airport's corporate image and website

**StandardAero** and **Thales** have signed a long-term partnership agreement for the certification and distribution of the Thales TopMax wearable Head-Up Display (HUD) for use in business aviation aircraft. TopMax is an industry first, resulting from Thales' decades-long experience in military Helmet Mounted Display Systems (HMDS) and civilian Head-Up Display (HUD). It is the only wearable HUD system whose ergonomics and

**Magnetic MRO Training**, an EASA Part-147 approved type training organization, has re-opened its training facility after the most recent expansion. The new premises were opened on Thursday, September 19, 2019 and are aimed to be used mainly by Magnetic MRO and **Estonian Aviation Academy** for theoretical technical training for future aircraft mechanics. The recent expansion to almost 400m<sup>2</sup> of space results in a nearly 50% capacity increase in Tallinn for theoretical type training programs. As type training is lengthy and on average takes between 1.5 – 2 months, the facility not only helps to accommodate the growing needs of professionals in the industry, but also provides a comfortable training center which meets the needs of both instructors and trainees.



Photo: Magnetic MRO training center.



Fraport and AeroGround Flughafen Muenchen develop vr training module  
Photo: Fraport

**Fraport**, the operator of **Frankfurt Airport**, and **AeroGround Flughafen München**, a wholly owned ground handling subsidiary of **Flughafen München** (the operator of Munich Airport), have developed a joint virtual reality (VR) training tool for ground handling operations. New digital training content was created for the joint VR tool. One training module, for example, serves to practice the ground handling processes required right after an aircraft has assumed

its parking position. Other planned modules include apron safety training or a dedicated training course for baggage sorting. The training modules, which are available in German and English, can be used by both new staff and employees who have already received training. The aim is to allow ground handling staff to practice the processes in a safe space before performing them in a real environment. The training content can be shared and used via an online platform – the “Innoactive Hub” – developed by Munich-based startup company Innoactive.



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## OTHER NEWS

functionalities are specifically adapted to the needs of civil pilots, whose missions are longer and therefore need a light-weight wearable HUD. At a glance, pilots with TopMax have instant and intuitive access to critical flight information for navigation and safety. TopMax is unique in the industry as its Synthetic Vision System (SVS) provides a full color, unlimited 360° field-of-regard. The SVS system also allows for off-axis symbology including cross wind, synthetic runway, extended navigational centerline and 3-D traffic display for advanced situational awareness and safety. Utilizing its in-house Organizational Delegation Authorization (ODA), StandardAero anticipates the approval of several Supplemental Type Certificates (STCs) for TopMax systems in multiple business aviation aircraft. Once certified, Thales and StandardAero will collaborate in delivering this new technology to market that is easily installed for minimal aircraft downtime.

**Moscow Domodedovo airport** has started deploying Slot Management System software to improve slot allocation, schedules facilitation, and schedule data collection processes. Moscow Domodedovo is the only Level 2 airport in the Moscow aviation hub according to IATA's classification. The airport infrastructure provides carriers with greater flexibility to optimize their schedules and manage resources more efficiently. Other Moscow's air hubs are designated as Level 3 as the demand for airport infrastructure surpasses the declared capacity. The software consolidates requests submitted through various channels and determines the availability of the requested time, taking both airport and land side capacity into account, and offering alternative slots if necessary. The system files a daily flight plan, based on the seasonal schedule. On a real-time basis, the system provides Domodedovo airport with information about the actual times of arrival and departure as well as operational variations. This year, in partnership with the Moscow ATC Center, a branch of the Federal State Unitary Enterprise State ATM Corporation, Moscow Domodedovo has implemented a project to synchronize flight information with the air traffic controller. The software gathers information from air traffic controllers concerning the actual take-off and landing times, the estimated time of arrival, the final approach course, and the designated runway, as well as including it into the airport's daily flight plan. Moreover, the system provides facilitators with operational data on flight status.

**Ryanair** has confirmed that its pilots based in Germany have voted by a majority of 99% in favor of a four-year Collective Labour Agreement (VTV), to cover all Ryanair's directly employed



British Airways and Malaysian Airlines cabin crew at London Heathrow

Photo: ©Nick Morrish/British Airways

**British Airways** has signed a new codeshare agreement with oneworld partner **Malaysia Airlines**. The new code will be added to 14 destinations the airline serves in Malaysia, including Langkawi, Penang and Kota Kinabalu, and nine cities in Australia, Cambodia, Indonesia, New Zealand and Vietnam. As part of the new agreement, customers will have an even greater choice of routes, destinations and fares and more flexibility between the U.K. and Asia Pacific. Travellers will also be able to through-check to their final destination and collect their boarding passes in advance. British Airways Executive Club members will gain enhanced frequent-flyer benefits and Avios can be used on reward flights, upgrades, hotels, experiences and for part payment, allowing customers to cut the cost of future British Airways' flights.



Ethiopian Airlines

Photo: AirTeamImages

Aviation service provider **ACC Aviation Group**, has announced the expansion of its partnership with national flag carrier and Star Alliance member, **Ethiopian Airlines**, to include the operator's charter and leasing capacity across North America and Asia, in addition to aircraft availability across Europe. To date, the collaboration has yielded significant results for the aviation service provider and Ethiopian, including ACMI operations for Smartwings and aircraft charter flights for the 2018 FIFA World Cup, 2017/18 and 2018/19 UEFA Champions League tournaments and major cruise operators. The agreement encompasses aircraft based across a number of international aviation hubs, including London Heathrow, Manchester, Madrid, Frankfurt, Paris Charles de Gaulle, Moscow Domodedovo, Houston, Bangkok, Hong Kong and Chengdu. ACC Aviation Group CEO, Phil Mathews, commented: "The working relationship between ACC Aviation Group and Ethiopian has continued to develop and strengthen and their decision to extend this agreement symbolizes their trust in our ability to represent their interests globally." Ethiopian Airlines' modern fleet includes Boeing 787 Dreamliners and Airbus A350s, aircraft which are not generally available, and this partnership gives ACC's clients access to some of the most contemporary wide-body capacity in the ad-hoc charter and wet-leasing market.

## OTHER NEWS

pilots in Germany until March 2023. The agreement, negotiated between Ryanair and the **pilot union VC**, will deliver a new pay structure along with a fixed 5/4 roster. Ryanair and VC have also agreed a Social Plan to govern German base closures or reductions.

## INDUSTRY PEOPLE



Teresa Parejo

- Iberia is incorporating sustainability as a key part of its business strategy in keeping with its support of the UN's sustainable development goals under the world body's 2030 UN Agenda. Iberia's commitment to environmental protection and to social welfare in general has moved sustainability to the forefront of its list of priorities, leading to the decision to establish a Sustainability Department to develop a general strategy and specific project to promote environmental and social sustainability in the airline. Formerly, Corporate Social Responsibility and Environmental Management activities of Iberia's, airline, airport handling, and MRO businesses were dispersed across the company. Under the new management structure, they will be the responsibility of the new Sustainability Department, which will be charged with developing a sustainability vision and strategy geared to the fulfilment of the UN's 17 Sustainable Development Goals. The new department will be headed by **Teresa Parejo**, with broad experience in matters relating to the environment, the climate change and sustainability. It will report to the new Corporate Division headed by **Juan Cierco**, which will encompass Corporate Communications, Corporate Affairs, People Development, and Corporate Social Responsibility. Parejo holds a PhD in Law by the University Carlos III in Madrid and a Master in Law by the European Union. She has been a professor of Law in Spain and abroad.

- Bombardier has named **Christophe Degoumois** as Vice President of Sales, International, for Bombardier Business Aircraft, overseeing business jet sales in all regions outside the Americas. Degoumois joined Bombardier in 2004 as a Sales Director, occupying roles of increasing responsibility over the last 15 years, including Vice President of Sales in China and the Asia-Pacific.



## Recommended Events



### Aircraft Economic Life Summit

November 18, 2019 – Gibson Hotel, Dublin, Ireland

[Click here for more aviation events](#)

In his most recent mandate, he was Vice President of Sales for Europe, Russia and the Commonwealth of Independent States (CIS). His expanded role will include the above regions as well as China, the Asia-Pacific, the Middle East and Africa.



Gail Baker

- Collins Aerospace Systems has released that **Gail Baker** has been appointed Vice President, Aftermarket Services, reporting directly to CEO **Kelly Orberg**. In her new role, Baker is responsible for leading the worldwide commercial and military aftermarket business and customer service organizations, including customer offerings, long-term aftermarket programs, spares, part repairs, asset management and technical and strategic support. Baker has been with UTC for more than 30 years and is known companywide as a forward-thinking and customer-driven leader. She most recently led the Intelligence, Surveillance, Reconnaissance & Space Solutions segment for Mission Systems where she was focused on driving long-term growth and profitability through customer support and program execution. Baker succeeds **Ajay Agrawal** who has accepted a new position as vice president of Strategy & Services at Carrier.

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Suite 305, South Tower  
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Richmond, BC  
Canada V6X 3M1

Publisher

Peter Jorssen

Tel: +1 604 318 5207

Editor

Heike Tamm

editor@avitrader.com

Tel: +34 (0) 971 612 130

Advertising Inquiries and  
Customer Support

Jenny Vogel

jenny.vogel@avitrader.com

Tel: + 49 (0) 8761 346 007

For inquiries and comments,  
please email:

editor@avitrader.com





# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A319-111	DVB Bank	CFM56-5B5/P	2870	2006	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-200	ORIX Aviation	V2527-A5	1509	2001	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
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
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	507	2002	Now	Sale	Kevin Ford	aircraft@gatelesis.com	+1-954-676-3111
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
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
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	GA Telesis	CFM56-7B	33813	2004	Now	Lease	Priscilla Ang	aircraft@gatelesis.com	+1-954-676-3111
B737-800	GA Telesis	CFM56-7B	33814	2004	Now	Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
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 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
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
(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
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	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
D0328 Jet	Regional One	PW306B	3185	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	1700155		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

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
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

## Commercial 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
CF34-8E5	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 - Sale				
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) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner-aero.com	+1-703-402-7430
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CFM34-8C5A1	Oct 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B	Q3/2019 - Sale / Lease	Conrail Aviation	Kevin Milligan	kevin@conrail.com	+1 949-933-0797
(1) CFM56-7B24	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950



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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B22	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-7B27	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(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.				
(2) CFM56-7B26/27	Nov 2019 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Oct 2019 - Lease				
<b>JT8D and JT9D Engines</b>					
	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
<b>GE90 Engines</b>					
	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>GENx Engines</b>					
	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
<b>LEAP Engines</b>					
	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
<b>PW Small Engines</b>					
	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(2) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) 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				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krys	rkrys@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Engines (cont.)

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	Sep 19 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Dec 2019 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) V2527-A5	Now - Sale / Lease				
(2) V2500-A5	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				
(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.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B 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) APS2300	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-7B QEC Kit	Q4/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
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
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Q3+Q4/2019 - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) GTCP131-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(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					
(2) GTCP131-9A, (1) GTCP131-9B, (1) GTCP131-9B (MAX),		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (1) GTCP331-350, (2) GTCP331-500, (1) PW901A					
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, APS5000			Rich Lewsley	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9A	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
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
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368