

Weekly Aviation Headline News

WORLD NEWS

SAA suspends Johannesburg – Hong Kong services

South African Airways (SAA) announced the suspension of all services between Johannesburg and Hong Kong from November 23 to December 14, 2019. This decision has been taken to curb significant financial losses incurred on the route, exacerbated recently by the ongoing political tensions in Hong Kong. In recent months, several airlines have announced reductions in services and capacity to Hong Kong. These include the home-based carrier Cathay Pacific, as well as Air China, Singapore Airlines, All Nippon Airways, United Airlines and others.

Menzies wins Scandinavian contracts

Menzies Aviation has secured three new contracts with Qatar Airways in Sweden and Denmark, marking a major expansion of services provided to the airline globally. Menzies Aviation will provide ground handling, de-icing and lounge services at Stockholm Arlanda Airport, Copenhagen Airport and Gothenburg Landvetter Airport. The five-year contract covers just over 2,000 flights a year and begins in January 2020.

Skyborne selects Etihad Aviation Training for IndiGo cadets

Skyborne Airline Academy has selected Etihad Aviation Training to conduct the third phase of its IndiGo Cadet Pilot Programme, delivering combined Multi-Crew Cooperation (MCC) and DGCA approved Type Rating training on the Airbus A320. The 10-week training phase in Abu Dhabi will prepare cadets to operate multi-crew jet aircraft, developing their competencies, decision making and communication skills, before familiarising themselves with the specifics of the A320 aircraft.



Emirates played a key role at the Dubai Airshow.

Photo: Airbus

Dubai's grand showcase

As airshow closes to acclaim

On the final day of the Dubai Airshow, the event was hailed as a success by exhibitors, delegates and sponsors alike, as a lively week of trading ended.

With more than 1,288 exhibitors in attendance, 161 aircraft on the event's static display, and a packed schedule of conferences and keynotes, the programme was the show's busiest to date – as evidenced by the footfall of 84,043 trade attendees. Sales were also booming, with the order book on site reaching \$54.5 billion by close of business.

Some highlights included Boeing

and Emirates finalised purchase agreement for 30 787-9 Dreamliners, valued at \$8.8 billion. It is the second largest order at the Dubai show for Emirates, with the airline

8s to serve as the backbone of its new low-cost airline FlyArystan, the Kazakh flag carrier and Boeing stated. The companies signed a letter of intent for the 30 airplanes with a list price value of \$3.6 billion. 15 MAX aircraft will be leased and 15 purchased – the deal is subject to

The order book on site reached \$54.5 billion by the close of business - Dubai Airshow

earlier in the week concluding a deal for 50 Airbus A350-900s. Emirates had previously signed an initial agreement for the larger 787-10 variant but during the show officially selecting the 787-9.

In some good news for Boeing, the OEM announced that Air Astana plans to order 30 Boeing 737 MAX

further Boeing discussions, internal board and shareholder approvals (and of course re-certification by worldwide regulators.) The airline is seven months old and is regularly securing 94% load factors.

In another boost for Boeing, SunExpress said it would exercise options

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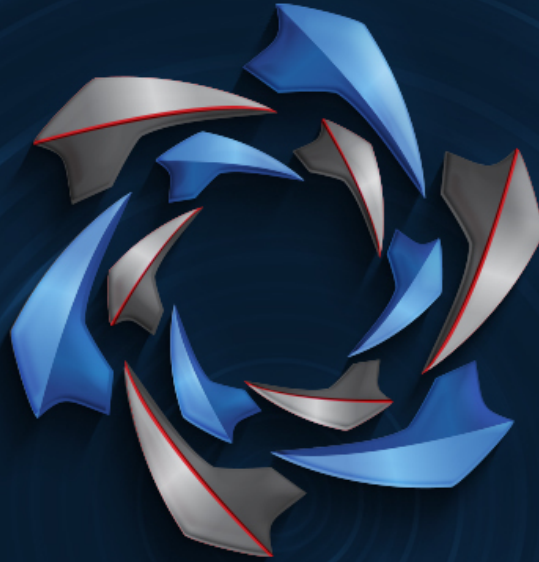


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...continued from page 1

for 10 additional Boeing 737 MAX 8 airplanes to continue renewing its fleet and growing its position in the leisure travel industry, the airline and Boeing said at the show. The purchase, valued at \$1.2 billion according to list prices, adds to a previous SunExpress order for 32 MAX aircraft.

Elsewhere, a host of speciality conferences, offering industry-specific keynotes, Q&A sessions and networking opportunities, attracted huge crowds of professionals. Set across two days, the Global Air Traffic Management (GATM) conference took a close look into the future of traffic

control, with virtual towers proving to be a particularly hot topic.

Commenting on the show's culmination, Michele van Akelijken, Managing Director of show organisers Tarsus F&E Middle East, said: "We always want to outperform our last show, and 2019 has gone above and beyond expectation, with so much great business being done alongside an engaging and innovative programme of conferences, exhibits and flying displays."

AIRCRAFT & ENGINE NEWS

CDB Aviation begins deliveries of six A330neo aircraft to new customer Garuda Indonesia

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing, has delivered the first of six Airbus A330-900neo aircraft as part of a sale-and-leaseback transaction and on long-term lease to a new customer in Asia Pacific, the flag carrier of Indonesia, Garuda Indonesia. The fleet of six A330neo wide-body airliners, equipped with latest-generation Rolls-Royce Trent 7000 engines and configured in a two-class cabin layout with 24 seats in business and 277 seats in economy, will support the company's growth and business expansion in the future. This first aircraft is expected to be joined in the carrier's fleet by two further units by the end of 2019, with the remaining three aircraft slated for delivery in 2020.

Boeing 787-10 to take to the skies with British Airways

British Airways will take delivery of its first brand new 787-10 Dreamliner in January 2020, with its first route being Atlanta in February next year. This state-of-the-art, Boeing 787-10 aircraft has a carbon fiber fuselage which allows the pressure to be maintained at a lower level in the cabin. The internal cabin altitude is the equivalent of 6,000 ft,

Milestone expands Falcon Aviation relationship with Lease of one AW189



Milestone will lease one AW189 helicopter to Falcon Aviation

Photo: Milestone Aviation

Falcon Aviation Services of Abu Dhabi (United Arab Emirates) has expanded its Leonardo AW189 helicopter fleet with the addition of a further two aircraft, of which one is leased from Milestone Aviation Group (Milestone), a GECAS company. The twin-engine medium-sized helicopter will arrive in Abu Dhabi, United Arab Emirates, this month to support increasing demand for uplift in the offshore oil and gas sector. The AW189 will be able to carry up to 19 passengers and is equipped with air conditioning and an auxiliary power unit (APU), allowing for continuous air conditioning in both the cabin and the cockpit without having main engines running. The aircraft is being leased to Falcon Aviation by Milestone through an operating lease and represents the second helicopter lease transaction for Falcon Aviation.

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offering a better level of humidity, reducing the drying effect of the cabin air, so customers arrive feeling more refreshed. The aircraft is also more fuel efficient and quieter than its predecessors. British Airways will take delivery of 12 787-10 Dreamliners, with six arriving in 2020.

AeroCentury sells one CRJ900 aircraft to ASI Aero

AeroCentury, an independent aircraft leasing company, has sold one Bombardier CRJ900 to Aeronautical Support International (ASI Aero), an aircraft and aircraft engine components supplier based in Boynton Beach, Florida, through its affiliate, Cloud Investment Partners. "The CRJ900 that we sold to ASI Aero is one of the four aircraft we repossessed from Adria Airways, the Slovenian flag carrier, shortly before it entered insolvency proceedings," explained Michael Magnusson, President of AeroCentury. "As it became apparent that Adria Airways was having financial difficulties, we commenced remarketing efforts for those CRJ aircraft," Magnusson continued. "This allowed us to expeditiously close this sale in little over a month after the aircraft's return. We believe that the market for CRJ900s is healthy at the moment and are already exploring several lease and sale opportunities for the other three aircraft returned to us from Adria Airways."

Republic of Ghana to order GENx engines for Boeing 787-9 aircraft

The Republic of Ghana announced its intent to purchase GENx-1B engines for its three Boeing 787 Dreamliners that will be used to re-launch an airline in the African nation. The engine order is valued at more than US\$150 million at list price.

Biman Bangladesh Airlines signs order for two 787-9 Dreamliner jets

Boeing and Biman Bangladesh Airlines (Biman) have announced at the 2019 Dubai Airshow that the carrier is expanding its 787 Dreamliner fleet with two additional airplanes valued at US\$585 million at list prices. The purchase – recorded in October as an unidentified order on Boeing's website – complements Biman's fleet of 787-8 jets with the larger and longer-range 787-9 variant. The national flag carrier of Bangladesh says the addition of the 787-9 will help modernize its fleet and expand its international network.



Biman Bangladesh Airlines orders two Boeing 787-9 Dreamliner jets Photo: Boeing

DAE delivers first of two Airbus A350-900 aircraft to Fiji Airways



Fiji Airways takes delivery of its first A350 aircraft on lease from DAE Photo: Airbus

Dubai Aerospace Enterprise (DAE) has delivered the first of two factory-new Airbus A350-900 aircraft to Fiji Airways during a delivery ceremony at the Airbus facility in Toulouse, France. Both aircraft are being delivered on long-term leases. The Airbus A350 XWB is the first of the type to enter Fiji Airways' fleet, making Fiji Airways the first airline in the South Pacific region to operate this all-new, modern aircraft. The technologically advanced, fuel-efficient aircraft will position Fiji Airways as a leader of the environmentally conscious, sustainable travel industry in the South Pacific.

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AIRCRAFT & ENGINE NEWS

Skyworld Aviation arranges sale of two ERJ 145 LRs to Air Peace

Skyworld Aviation is delighted to announce the sale of two FAA-registered ERJ 145 LR aircraft to Air Peace of Nigeria. Serial numbers 145379 (5N-BXG) and 145486 (5N-BXF) were delivered in Kingman, Arizona on October 3. The two ERJ's will be joining a fleet of 25 aircraft including narrow-body and wide-body aircraft. Air Peace is Nigeria, West Africa's largest operator and the airline has acquired ERJ 145s to increase interconnectivity in Nigeria and West Africa, to specifically serve destinations with little or no service. Skyworld Aviation acted on behalf of a U.S.-based regional aircraft sales and leasing firm for whom they had previously arranged a sale of an ERJ 170, two CRJ 700 leases, two further ERJ 145 sales and the sale of an AE3007A engine and APU. This latest transaction further demonstrates Skyworld Aviation's prominence in the regional jet market, now having concluded approximately 180 jet placements worldwide.

Airbus Helicopters delivers first H145M to Luxembourg



The first H145M helicopter for the Government of the Grand-Duchy of Luxembourg
Photo: Airbus Helicopters/Patrick Heinz

Airbus Helicopters has delivered the first of two H145M multipurpose helicopters for defense and security missions to the Government of the Grand-Duchy of Luxembourg. Together with the helicopters, Airbus also provides a training and support package to its customer. The delivery of the second helicopter is scheduled before the end of the year. The delivered H145M is the first H145 in Luxembourg.

Tunisair Express takes delivery of first ATR 72-600



Tunisair Express takes delivery of the first of three ATR 72-600 aircraft

Photo: ATR

Regional aircraft manufacturer ATR has delivered the first of three ATR 72-600 aircraft to Tunisair Express. The Tunisian airline will use these aircraft to renew its regional fleet providing passengers with essential connectivity both domestically and internationally. By upgrading to the ATR -600 series, the airline has also chosen to prioritize the comfort of its passengers, introducing the latest generation 18"-wide seats and the Cabinstream In-Flight Experience, allowing passengers to access a variety of content on their personal electronic devices.

SalamAir expands fleet with two new A321neos from GECAS

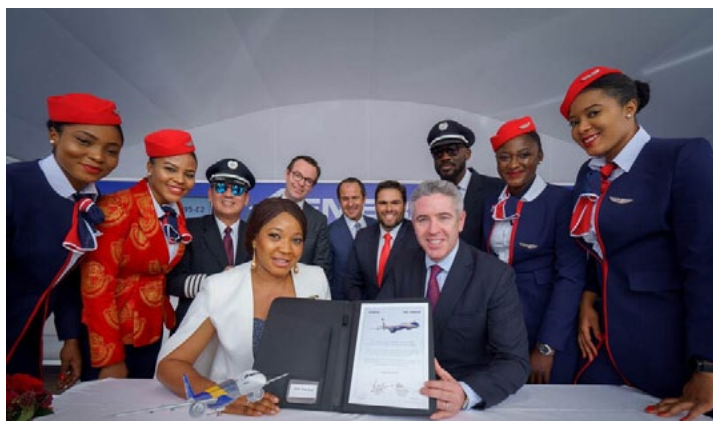
SalamAir and GECAS have entered into a lease agreement for two Airbus A321neos to enter service with Oman's first low-cost carrier. The aircraft are from GECAS' new order skyline and are outfitted with the latest technology CFM-LEAP engines. Based in Oman's Muscat International Airport and serving routes between 28 destinations across 16 countries, SalamAir will be among the first to operate the A321neo in the Middle East.



Salam Air expands fleet with two more A321neos from GECAS

Photo: GECAS

Embraer signs new aircraft orders with CIAF Leasing and Air Peace



Air Peace, Embraer signing ceremony at the Dubai Air Show

Photo: Embraer

Embraer and Cairo-based CIAF Leasing have signed a firm order for three E190 aircraft. The deal has a value of US\$161.4 million at current list prices and will be added to Embraer's fourth-quarter backlog. The three new aircraft will join CIAF's existing fleet of three E170s, two of which are on lease with Jasmin Airways, the other with Air Cairo. CIAF is also due to receive two E195s in mid-November.

Furthermore, Air Peace has decided to order three additional E195-E2s, confirming purchase rights from the original contract signed in April this year. The order was signed on November 17, at the Dubai Air Show. These new E195-E2s will be included in Embraer's 2019 fourth-quarter backlog and have a value of US\$212.6 million, based on Embraer's current list prices. Set to be the first E-Jets E2 operator in Africa, Air Peace's firm order, announced in April this year, is now for 13 E195-E2s with 17 purchase rights for the same model. The first delivery is scheduled for the second quarter of 2020.

Virgin Galactic debuts Astronaut Readiness Program

Virgin Galactic unveiled its Future Astronaut Readiness Program at the global headquarters of Under Armour, who are providing the spacesuits for all Virgin Galactic's customers. A number of Future astronauts, who will be among the first to participate in space flight with Virgin Galactic, were in attendance and underwent guidance and instruction from a number of key team members, as well as carrying out certain flight preparation activities. For those in attendance, the most exciting part of the experience was being fitted for their personal space suits, which will then be ready for them when they venture into space. All passengers will then be allowed to keep their space suit after they have completed their space flight from Spaceport America. In a press release issued by Virgin Galactic, it stated that: "As part of the Readiness Program, in sessions led by Chief Astronaut Instructor, Beth Moses, and Chief Pilot, Dave Mackay, we shared more detailed information with Future Astronauts about what to expect from preparation time at Spaceport America and from the spaceflight itself. Both Beth and Dave flew to space in February this year, so were able to provide exciting insights based on actual experience. Future astronauts will have to undergo rigorous training, meet specific fitness levels that are applicable to all government space agency astronauts, and will also be subject to a rigorous medical examination and specially designed medical consultations from the in-house medical team. In the press release, George Whitesides, CEO, Virgin Galactic, said: "Introducing our Astronaut Readiness Program to our first customers marks an exciting point in our journey as we move closer to the start of commercial service. It is an important step in the process to ensure that our customers are prepared and equipped with the knowledge and training that will help ensure that they savor every second of their spaceflight which we hope will go beyond expectations. My introduction to Virgin Galactic was as a customer, so I've seen first-hand the benefits of involving Future Astronauts as we prepare each individual for the trip of a lifetime." Currently, Virgin Galactic has over 600 Future Astronauts from 60 countries signed up to fly on its SpaceShipTwo.



Lead Designer Nick Cienski trains with Under Armour model

Photo: Virgin Galactic

GoAir selects Pratt & Whitney GTF™ engines to power 72 additional Airbus A320neo family aircraft



GoAir has selected P&W GTF™ engines to power its order of 72 A320neo family aircraft
Photo: AirTeamImages

GoAir, the Mumbai, India-based airline, has signed an agreement selecting the Pratt & Whitney GTF™ engine for the airline's order of 72 A320neo family aircraft. Pratt & Whitney will also provide GoAir with a long-term EngineWise® comprehensive service agreement. The aircraft are expected to begin delivery in 2021. GoAir currently operates a fleet of 38 GTF-powered A320neo-family aircraft. These are part of the initial GoAir order of 72 GTF-powered A320neo aircraft announced in 2012. The additional aircraft offer GoAir the opportunity to add domestic and international routes and expand capacity to provide enhanced connectivity in the region.

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Boeing and EGYPTAIR Maintenance & Engineering sign MRO service agreement

Boeing and EGYPTAIR MAINTENANCE & ENGINEERING (EGME) have announced agreements that will approve the Cairo-based MRO as Boeing's first maintenance supplier in Africa and the Middle East region. The agreement enables EGME to provide aircraft, engines and component maintenance services and solutions to Boeing customers. EGME will also receive landing gear exchange and overhaul support through the Boeing Landing Gear Exchange Program. The program provides flexible exchange solutions that allow customers to quickly repair and replace serviceable landing gear in hours. Boeing will also supply parts for a Quick Engine Change kit. The kit includes hardware and components used to efficiently build up a spare engine to service-ready condition, lowering the maintenance time required to replace an engine and return aircraft to service.

Sanad Aerotech becomes maintenance center for LEAP engines

MRO solutions provider Sanad Aerotech, a wholly owned subsidiary of Mubadala Investment Company PJSC (Mubadala), has signed a landmark agreement with GE Aviation (GE) to provide maintenance services to GE for the next generation of narrow-body and wide-body aircraft. Under this agreement, the Abu Dhabi-based company will provide performance restoration overhaul services on the GENx-1B engine as well as continued time (quick turn) overhauls on CFM International's LEAP engines for GE. Effective January 1, 2020, Sanad Aerotech will expand its existing maintenance and repair services to include full overhaul on 315 GENx engines until 2035, and quick turn on 237 LEAP engines until 2030 at its Abu Dhabi shop. The LEAP engine, which powers Boeing and Airbus aircraft, and the Comac C919 boasts a 18,000-plus worldwide order book, making it the world's most in-demand commercial airplane engine.

Jet Aviation Dubai and USW cooperate to provide learning opportunities in aviation maintenance engineering

Jet Aviation Dubai and the University of South Wales (USW) Dubai have announced their cooperation to help support the development of aspiring aviation professionals. Effective immediately, Jet Aviation will provide required on-the-job training opportunities to students in Dubai enrolled at USW Dubai, while USW will support tuition for qualified Jet Aviation employees. This collaboration will help to help

GECAS places orders for 32 Airbus aircraft



GECAS orders twenty A321XLR and twelve A330-900 aircraft from Airbus

Photo: GECAS

GECAS has entered into an agreement to purchase twenty A321XLR and twelve A330-900 aircraft from Airbus, with all 32 aircraft slated for delivery prior to the end of 2026. With more than 150 medium-haul operators facing a significant replacement need—forecasted by Airbus to impact over 2,700 wide- and narrow-bodies in the coming 20 years and most of these by 2030—each of these new types from Airbus are ideally suited to the medium-haul market. Prior to this order, the A330-900 aircraft, which does not compete with a GE-powered product, has garnered more than 270 orders for the type. As previously disclosed, GECAS' fleet has been roughly 85% GE/CFM-powered for many years.

Leonardo and Abu Dhabi Aviation sign contracts for five helicopters



Contract signing ceremony between Leonardo and Abu Dhabi Aviation at this year's Dubai Airshow

Photo: Leonardo

Abu Dhabi Aviation (ADA), the largest commercial helicopter operator in MENA and Leonardo have signed contracts for five helicopters, including three intermediate AW139s and two light intermediate AW169s, at the Dubai Airshow. The aircraft are scheduled for delivery in 2020. The agreement, which represents ADA's first order for the AW169 helicopter, will expand ADA's fleet of Leonardo helicopters which already incorporates 16 intermediate AW139 helicopters, primarily supporting the oil and gas industry. These latest orders are part of an agreement for 15 helicopters, including the AW139/AW169/AW189 types announced at the end of 2015. Like the AW139s, the AW169s will also benefit from the support solutions provided locally by AgustaWestland Aviation Services, an Abu Dhabi Aviation (ADA) and Leonardo joint venture delivering thorough support and maintenance services in the region. Operating both the AW139 and AW169, ADA will also add to the range of customers worldwide who are benefitting from the unique advantages of the AW Family of new-generation helicopter models.

MRO & PRODUCTION NEWS

build an industry-ready cohort of local aircraft maintenance engineers and related professionals for the aviation industry, fostering teaching, learning, training and knowledge transfer to aspiring aviation professionals in Dubai. Jet Aviation's EASA, FAA and GCAA-approved maintenance facility in Dubai will cooperate with USW by offering industrial training and internships to aviation students at USW Dubai. Meanwhile, USW will provide Jet Aviation employees with the unique development opportunity of pursuing a BSc in Aircraft Maintenance Engineering or an MSc in Aviation Engineering and Management at the USW Dubai Campus.

LHT will start completion of first A350 head-of-state cabin in 2020

Work on the first head-of-state cabin conversion of an Airbus A350 long-haul aircraft will begin next year at Lufthansa Technik. The German Federal Government's Special Air Mission Wing will be the user of the aircraft. It will be equipped with a special transitional cabin for the transportation of delegations. The transitional cabin will be tailored precisely to the customer's specific requirements, featuring an office area and spacious conference area, adjoined by a multi-functional lounge area. The rest of the cabin area will be available to the accompanying delegations. It will be equipped with modern, comfortable seats, a generous number of washrooms and a kitchen designed to cater for up to 150 people. Preparations have already begun at the company's VIP workshops in Hamburg, where the aircraft is expected in April 2020.

SAFAIR expands GE's TrueChoice Overhaul agreement for CFM56 engines

SAFAIR has extended and expanded its TrueChoice™ Overhaul agreement with GE Aviation for the maintenance, repair and overhaul of its CFM56-7B engines that power its fleet of Boeing 737-800 aircraft. The new agreement is valued at more than US\$70 million over the life of the agreement.

GE and LOT Polish Airlines sign TrueChoice agreement for CF34 engines

LOT Polish Airlines and GE have signed a five-year TrueChoice Overhaul service agreement for the airline's fleet of CF34-8E engines that power its 18 Embraer E170/175 aircraft. The TrueChoice Overhaul agreement provides time and material overhauls with tailored workscopes. The agree-

Chorus Aviation expands leasing portfolio with new aircraft type and new customer airBaltic



Chorus Aviation Capital enters into a sale-leaseback agreement with airBaltic of Latvia

Photo: AirTeamImages

Chorus Aviation Capital (CAC) has entered into a sale-and-leaseback agreement with airBaltic of Latvia to acquire five new Airbus A220-300 aircraft, marking the addition of this new aircraft type to the CAC product offering. This transaction brings its customer base to 15 airlines on six continents. Two deliveries are anticipated in the fourth quarter of 2019 with the balance to be completed by the end of the third quarter in 2020. Upon the completion of this transaction and one other aircraft pending delivery to other customers, CAC's portfolio will include 43 turboprops and 17 regional jets. When combined with the planned aircraft leased under the Capacity Purchase Agreement with Air Canada, Chorus' fleet of leased aircraft will reach 131 aircraft valued at approximately US\$2.2 billion.

ALS confirms selection of Rolls-Royce TotalCare for engine servicing



ALS and Rolls-Royce sign TotalCare agreement at the Dubai Airshow

Photo: Rolls-Royce

Rolls-Royce and Kenyan Airline ALS have signed an agreement for engine maintenance, repair and overhaul services for the Kenyan airline's fleet of AE3007-powered Embraer ERJ135 and ERJ145 aircraft, up to 10 in total. The agreement, which is for five years, will see Rolls-Royce provide the Nairobi-based specialist operator with its flagship TotalCare long-term aftercare service solution, which is designed to maximize aircraft availability.

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ment is valued at more than US\$100 million over the life of the agreement.

Voyageur Aviation and Segers Aviation establish regional aircraft parts depot in Dubai

Voyageur Aviation, a subsidiary of Chorus Aviation and Segers Aviation, a Segers Group company, will establish a regional aircraft parts depot in Dubai, UAE. This new partnership includes a spare parts distribution agreement that will leverage Segers' experienced logistics and sales expertise to sell Voyageur-owned spare parts to operators in the region and beyond. Under this agreement, Voyageur will be providing a pool of Dash 8-400, CRJ, and Dash 8 Classic spare parts to Segers for sale or exchange. Segers' UAE office has expertise in marketing its own inventory and MRO services to operators in the Middle East, Africa and Asia. The two organizations have a long history of successful cooperation and partnership with Voyageur having sent Dash 8 propeller components to Segers' U.K. MRO, Proptech Aero for many years.

Columbia Manufacturing introduces new large-scale electronic measurement capabilities

Columbia Manufacturing, a privately held manufacturer and supplier of precision metal components for turbine engines, has announced the completion of a capital investment to install a large-scale coordinate measuring machine (CMM). Located in Eastern Connecticut, Columbia Manufacturing is one of only a few specialty manufacturers in the country to offer large-scale CMM capabilities. The aerospace industry demands exacting tolerances in the fabrication of turbine engine components. The new Mitutoyo machine will enable trained technicians to electronically inspect and verify large and bulky parts as big as five feet wide, nine feet long and five feet high, with tolerances less than the width of a strand of hair. This announcement caps a year-long resurgence at Columbia Manufacturing to position the company as a world-class supplier. Since being named president and CEO in November 2018, Robert Friedland has led efforts to modernize the 39-year-old company to be competitive in the 21st-century aerospace industry.

Boeing told by NTSB to redesign 737 NG after engine blowout kills passenger in 2018

The U.S. National Transportation Safety Board has recommended Boeing Co. redesign the

Airbus secures two megadeals at second day of Dubai Airshow



Air Arabia orders 120 Airbus aircraft comprising 73 A320neos, 27 A321neos and 20 A321XLRs

Photo: Airbus

After a quiet first day for aircraft orders, the second day of the Dubai Airshow saw Airbus triumph over long-time rival planemaker Boeing with two megadeals worth a total US\$30 billion. The first of the two massive Airbus deals was with Emirates Airline (Emirates) for 50 350-900 wide-body aircraft valued at US\$16 billion at list price. Emirates is looking to restructure its fleet having previously reduced its order for the A380 superjumbo by 39 units, which led Airbus to call time on further plans for the aircraft. Having then agreed a deal with Airbus to replace the A380s with a combination of 30 A330neos and 30 A350s, today's deal supersedes this. Sheikh Ahmed said the decision "follows a thorough review of various aircraft options and of our own fleet plans", though he did not rule out the possibility of acquiring a number of A330neos in the future. Airbus' second major deal was with United Arab Emirates low-cost carrier Air Arabia for 120 A320s, worth approximately US\$14 billion at list price. Currently operating a fleet of 53 Airbus A320 and A321 jets, Air Arabia recently announced an agreement with Abu Dhabi-based Etihad Airways to launch a new low-cost carrier, Air Arabia Abu Dhabi. Deliveries for the order should commence in 2024, allowing it to move ahead with plans to add new routes to its network which takes in 170 destinations.

Airbus signs new orders with flynas, easyJet and Air Senegal



flynas

Photo: Airbus

Airbus has announced that Saudi budget carrier flynas has signed a firm order for 10 A321XLRs aircraft, while also revealing that Air Senegal has made a provisional order for eight of the smaller A220 narrow-body aircraft. easyJet has exercised options for 12 more A320neo aircraft.

MRO & PRODUCTION NEWS

predecessor of the trouble 737 MAX, the 737 NG, to avoid any repeat of an engine blowout on April 17, 2018, which killed one passenger who was partially sucked out of the aircraft mid-flight after the structure at the front of the engine came apart and pierced the fuselage of the stricken Southwest Airlines jet. A fan blade of the CFM International engine broke, which led to a chain of events which resulted in damage being inflicted on the engine's front structure. The recommendation by the NTSB is that the inlet to the engine be redesigned in order that it could now contain any loose part during an engine failure. The NTSB has called on the Federal Aviation Administration (FAA) to require the redesign to be installed on all new 737 NG aircraft and retrofitted on all existing 737 NGs, with the latter request likely affecting some 7,000 aircraft.

C&L Aviation Group completes teardown of ATR42 aircraft

C&L Aerospace has purchased an ATR42-320 which is currently being disassembled. Parts from this aircraft (MSN 0284) will join the more than 132,000 other ATR line items in C&L's warehouses, strategically located around the globe, where a unique cataloging process makes purchasing transparent and seamless for customers. Notable highlights from this teardown include Propellers, Wheels, Brakes, ATR42 Flight Controls and Leading Edges. This is the 7th recent ATR purchase for teardown made by C&L who has also employed Warrick Hood to oversee the ATR program.

FINANCIAL NEWS

AeroCentury reports third-quarter 2019 results

AeroCentury, an independent aircraft leasing company, has reported a third-quarter 2019 net loss of US\$8.2 million, compared to a net loss of US\$4.5 million for the third quarter of 2018. In the first nine months of 2019, the Company reported a net loss of US\$9.6 million, compared to a net loss of US\$4.2 million in the first nine months of 2018. Third-quarter and year-to-date 2019 results reflect the combined operations of AeroCentury and its subsidiary, JetFleet Holding (JetFleet), which was acquired by the Company on October 1, 2018. EBITDA was (US\$5.2) million compared to US\$5.3 million in the preceding quarter and US\$0.1 million a year ago. Average portfolio utilization was 97% during the third quarter of 2019, compared to 98% during the second quarter and 93% in the third quarter

L3Harris Technologies delivers three custom wide-body paint completions in 2019



Boeing 787 completion

Photo: L3Harris Technologies

L3Harris Technologies has delivered its third custom wide-body paint completion in 2019 at its recently enhanced facility. L3Harris' aircraft paint completions occur in a 73,000 ft² climate-controlled hangar capable of accommodating some of the largest military and civilian aircraft, including the Boeing 747-8 and Lockheed C-5 Galaxy. The paint facility recently received a multi-million-dollar upgrade to replace its analog HVAC system with the latest digital technology for temperature and humidity control, allowing the company to produce custom paint jobs on a variety of aircraft. The work is supplemented by multiple onsite component paint booths. L3Harris' facility offers paint services as part of a broader suite of M3 solutions – Missionization, Modernization, and Maintenance, Repair and Overhaul (MRO) for military, government and commercial customers. The facility specializes in complex wide-body aircraft modifications.

Kenya Airways and Corendon Airlines sign agreements with Joramco for base-maintenance on 787 and 737 aircraft



Joramco and Kenya Airways sign base maintenance agreement

Photo: Joramco

Joramco, the Amman based MRO and the engineering arm of Dubai Aerospace Enterprise (DAE) has won another base maintenance contract from Kenya Airways, Kenya's flag carrier, to perform seven heavy checks and modifications on its 787 aircraft. The checks will commence in 2020, between January and September. A new customer for Joramco is Corendon Airlines, a Turkish leisure airline headquartered in Antalya. The airline has signed its first agreement with Joramco for heavy maintenance work on four Boeing 737NG aircraft of the carrier's fleet. These checks are planned to commence during Winter 2019/2020.

FINANCIAL NEWS

of 2018. The decrease from the second quarter was a result of the return of four aircraft in late September 2019. The increase from the previous year was a result of the purchase of two on-lease aircraft during the second quarter of 2018 and sales of off-lease assets during the second half of 2018. Total revenues increased 235% to US\$24.0 million for the third quarter of 2019, compared to US\$7.2 million in the preceding quarter, and increased 375% from US\$5.1 million in the third quarter a year ago. Total operating expenses increased 374% to US\$34.5 million from US\$7.3 million in the preceding quarter, and increased 220% from US\$10.8 million in the year-ago quarter.

Chinese airlines look for growth closer to home after three years of industry losses

After three years of an aviation industry operating in the red and losses reaching 21.9 billion yuan (US\$3.23 billion) according to China Air Transport Association data, Chinese airlines are now looking to add seats to short-and medium-haul routes to Asian destinations rather than loss-making long-haul routes to North America. With over 800 current international routes in operation, the majority of the planned additional 105 international routes for the new spring season 2020 are to East Asia and Southeast Asia. According to John Grant, senior analyst at aviation data firm OAG: "Chinese carriers are now taking a more commercial approach to international services. If you could fly an aircraft for four hours and stay profitable compared to a 12-hour sector and not make any money, then you could do that thrice on a daily basis, thus making a better business sense." China Eastern has just received approvals to open new routes from the tier-two cities of Qingdao and Chengdu to South Korea's Cheongju-si and to Osaka in Japan, and will additionally fly Shanghai to Aomori Prefecture in Japan and from Xining to Nagoya in Japan. Loong Air received approval in October to open a new route linking Chengdu with Jakarta. As demand on North American routes weakens, four Chinese airlines have withdrawn six U.S.-bound flights this year, according to aviation data provider Variflight. Air China has suspended Beijing-Hawaii flights, while Xiamen Airlines has suspended its Xiamen-Shenzhen-Seattle service. In general terms, long-haul flights are usually more lucrative for carriers as there is less competition from low-cost carriers experienced on short-haul routes, which means higher fares can compensate up for higher cost of fuel, bigger planes and bigger crews. However, as state and local government subsidy-backed Chinese airlines chased their market share, they drove down long-haul rates so low that they can now make more money on international routes closer to home.

Hawker Pacific provides Royal Jordanian's Embraer fleet with landing gear services



Photo: Royal Jordanian Embraer 195 aircraft

Royal Jordanian Airlines has entrusted Hawker Pacific Aerospace, a subsidiary of Lufthansa Technik, with landing gear services for the airline's regional aircraft fleet of Embraer E-Jets. The three-year contract encompasses landing gear overhauls for one Embraer 195 and two Embraer 175s. In addition, Hawker Pacific will support Royal Jordanian with landing gear spares on a loan-and-exchange basis. The first overhaul of the aircraft's landing gears in Hawker Pacific's Sun Valley facility is scheduled for November 2019. Lufthansa Technik already has a decades-long business relationship with Royal Jordanian, that in addition to the new contract encompasses both landing gear services as well as a Total Component Support (TCS®) for the airline's Airbus A320 fleet.

Honeywell equips Middle East Airlines' new fleet with latest cockpit technologies



Honeywell will equip MEA's new fleet with its latest cockpit technologies

Photo: Honeywell

Honeywell has signed a selection agreement with Middle East Airlines, the national flag-carrier airline of Lebanon, to provide cockpit technologies to support the airline's new fleet of 19 aircraft. The deal, which includes four of Airbus' latest variant, the A321XLR, will see Honeywell provide its latest full avionics suite to help Middle East Airlines maximize safety and ensure regulatory compliance. Middle East Airlines' (MEA) purchase of Airbus aircraft includes 11 A321NEOs, four A330NEOs and four A321XLRs, the latest evolution of the successful A321NEO aircraft. MEA is a launch customer of the A321XLR, and through the completion of this agreement, Honeywell is one of the first selected suppliers of cockpit technologies for the launch of the aircraft.

MILITARY AND DEFENCE

Boeing Embraer – Defense joint venture to develop new markets for the C-390 Millennium

Boeing and Embraer have announced their joint venture to promote and develop new markets for the C-390 Millennium multi-mission airlift and air mobility aircraft will be called Boeing Embraer – Defense. The organization will only be operational after the companies' joint venture receives regulatory approvals and meets closing conditions. The C-390 Millennium is a tactical transport aircraft designed to set new standards in its category, while presenting the lowest life-cycle cost on the market. The aircraft brings airlift and air mobility into the jet age with increased mobility, rugged design, higher flexibility, state-of-the-art proven technology and easier, more-efficient maintenance. The C-390 Millennium can perform a variety of missions, such as aerial refueling, cargo and troop transport, cargo and paratrooper airdrop, search and rescue, aerial firefighting and humanitarian missions.

INFORMATION TECHNOLOGY

Solenta Aviation, the South African aviation solution provider and ACMI specialist, has gone live with **Rusada's** maintenance management software ENVISION. Solenta Aviation, founded in 2000, provides customized passenger and cargo solutions, aircraft charter and ACMI services to multiple industries. The airline operates and manages a fleet of almost 40 aircraft, including Beechcraft 1900's, ATR's and Embraer ERJ's, located at sites across the continent. In addition to this, Solenta has a sizeable MRO operation, conducting both base and line maintenance from its facilities across the globe and recently adding passenger-to-freight conversions to its growing list of capabilities. Solenta have signed up for seven of ENVISION's modules, which will ultimately be deployed across its network of 20 sites across Africa, the Middle East, Central Asia, Central America and Europe.

Aircamo Aviation has selected OASES to support its established CAMO and technical management operations. Aircamo is an aircraft asset management and airworthiness company, providing transition and heavy maintenance support to airlines, leasing companies and operators worldwide. Based out of Manchester Airport Business Park (U.K.), they specialize in Private/Commercial Aircraft and Engine Technical and CAMO Management advisory services. Aircamo's technical approvals include: EASA Part M – UK.MG.0697, Guernsey 2-REG.39.34, Bermuda BDA/CAMO/166, and Cayman Islands 081-CAY-CAMO-2019. The Aircamoteam consists of very

JAL selects Lufthansa Technik for APU maintenance services



JAL Airbus A350

Photo: LHT

Lufthansa Technik and Japan Airlines (JAL) have signed an agreement for APU (Auxiliary Power Unit) maintenance services for the carrier's Airbus A350 fleet. The five-year contracted services will provide repair and overhaul maintenance with spares support for the APU HGT1700 series. Currently JAL holds 31 firm orders and 25 options for the state-of-the-art long-range A350 jet.

Czech Airlines Technics enters into Base Maintenance Agreement with Austrian Airlines



An Austrian Airlines aircraft at Czech Airlines Technics' hangar

Photo: CSAT

Czech Airlines Technics (CSAT), a subsidiary of Prague Airport and provider of aircraft repair and maintenance services, has entered into a Base Maintenance Agreement with Austrian Airlines. Under the contract, CSAT will provide Airbus A320 Family base maintenance checks in its facilities at Václav Havel Airport Prague for the carrier effective November 2019. "At the moment, this new contract includes five base maintenance checks, namely C-checks, of Airbus A320 Family aircraft provided in our hangar in Prague," says Pavel Hales, Chairman of the Board of Directors and CEO of Czech Airlines Technics. "Czech Airlines Technics has provided Austrian Airlines with its services before and with this new contract, we believe that the co-operation in the base maintenance division will advance even further," Hales adds.

INFORMATION TECHNOLOGY

experienced senior technical managers, many of whom previously worked with a variety of large airlines, MRO's and leasing companies. Aircamo has chosen the Core, Airworthiness and Planning OASES modules, which will be implemented in **Commsoft's** Private Cloud. Discussions are well underway between Commsoft and the Aircamo team, where data migration consultancy and support will be key components of the project plan. Due to uncertainty within the market, Aircamo are providing 'Shadow CAMO' services for several lessors who want to react quickly in the event of a default or collapse.

Vistara, a joint venture of **TATA** and **Singapore Airlines**, has selected AMOS as its end-to-end MRO software solution for its entire fleet of Airbus and Boeing aircraft. The airline recently inaugurated its international operations and aims to expand into geographies across the world as it inducts new aircraft from Airbus as well as Boeing. The state-of-the-art AMOS software solution supports Vistara's ambitious growth plans. Vistara's newly phased-in Boeing B737-800NG aircraft will be directly managed in AMOS. This project has a very special, non-standard set-up in order to efficiently support the airline's requirements. The implementation will be split into two main phases: Phase one will focus on transferring the B737 fleet into AMOS with a planned go-live as early as autumn 2020. The next phase foresees the transfer of the complete fleet including Airbus and future Boeing 787 Dreamliner into AMOS.

OTHER NEWS

Alcoa Corporation, a global leader in bauxite, alumina and aluminum, has been accepted as a member of the **International Council on Mining and Metals (ICMM)**, an organization focused on enhancing the industry's contribution to society with safe, fair and sustainable practices. Alcoa is a recognized leader in sustainability, with certifications from the Aluminium Stewardship Initiative and inclusion in the annual Dow Jones Sustainability Indices, where the company was recently recognized as the aluminum industry leader. "Our membership in ICMM gives us an opportunity to learn, define and share best-in-class mining practices through a common set of international standards," said Alcoa President and Chief Executive Officer Roy Harvey. "Alcoa is focused on delivering value through our strategic priorities, which includes a focus on advancing sustainably, and we are working to leverage our extensive experience to win in an evolving marketplace that will demand sustainably and responsibly produced materials."



Lufthansa and Lufthansa Cargo will join the AMOS community

Photo: Swiss-AS

Lufthansa German Airlines and **Lufthansa Cargo** are joining the AMOS community with a scheduled first Go-Live in autumn 2020 followed by two later cut-overs in 2021. The initiative will see both airlines and their entire fleets adopting AMOS, which is at the forefront of the Maintenance and Engineering software market. Lufthansa German Airlines and Lufthansa will both benefit from the vast experience gathered by the Lufthansa Group member airlines: **Swiss International Air Lines**, **Austrian Airlines**, **Eurowings**, **Brussels Airlines** and **Lufthansa CityLine**, with some of them having used AMOS for almost 20 years. After completing the in-depth Definition Phase including AMOS business process/interface workshops and the specification of comprehensive business requirements, the Lufthansa Executive Board has now approved the start of the project's Implementation Phase. A highly skilled and dedicated team of Lufthansa German Airlines and Lufthansa Cargo aviation experts, supported by Swiss-AS Consultants and Project Managers, will guide the flag carrier through this next project phase. Both carriers will implement AMOS including AMOSmobile for its Line Maintenance and CAMO Operations, based on best practice processes already implemented within the group.



Signees of the LOI to cooperate on Human-Centric Lighting development

Photo: LHT

SCHOTT, **jetlite**, **Etihad Engineering** and **Lufthansa Technik** have signed a ceremonial letter at the Dubai Airshow, expressing co-operation in further exploring and promoting a new "Human-centric Lighting" technology and bringing it to the market. The collaboration aims at combining SCHOTT's expertise in cabin lighting systems, jetlite's holistic and scientifically proven solution for jetlag reduction, Etihad Engineering's and Lufthansa Technik's expertise for aircraft systems integration, design certification, and innovation capabilities. The result is an effective system for automated cabin lighting scenarios that will positively affect air travelers' well-being on multi-time-zone flights by reducing jet lag and headaches and enabling higher concentration and energy levels. The jointly developed system makes use of SCHOTT's Helio-Jet® LED cabin illumination technology that enables a homogeneous light distribution as well as a high color stability throughout the cabin. It is combined with jetlite's intelligent automation software integrated into Lufthansa Technik's "nice" cabin lighting control system. The new lighting-pilot technology permanently calculates and executes the optimum illumination sequence for any flight route and phase, or any desired lighting choreography without the need for cabin crew to intervene. Etihad Engineering and Lufthansa Technik bring decades-long experience with aircraft and systems integration, certification, and validation into the partnership, contributing to development capabilities in design and parts manufacturing (EASA Part 21-J and 21-G).

INDUSTRY PEOPLE



Ken Sain

• Panasonic Avionics Corporation (Panasonic Avionics), a leader in in-flight entertainment and communications (IFEC) solutions for the world's foremost airlines, has named **Ken Sain** as chief executive officer. He succeeds **Hideo Nakano**, who has served as Panasonic Avionics CEO since 2017 and as deputy CEO prior to that. Nakano will now serve as Special Advisor for Panasonic Avionics. Sain, who most recently served as vice president of Digital Solutions and Analytics for Boeing Global Services and as CEO of Boeing subsidiary Jeppesen, will join Panasonic Avionics on December 2, 2019.



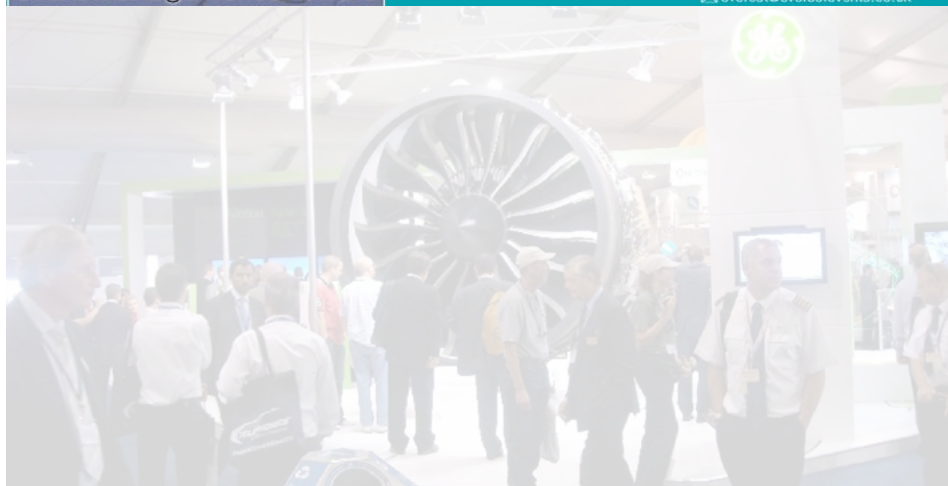
Jacob Schram

• Norwegian's Board of Directors has appointed **Jacob Schram** as CEO of Norwegian, starting January 1, 2020. **Geir Karlsen** will continue as CFO and Deputy CEO. Schram has 30 years of experience from large international companies. He has previously held managing roles in Circle K, Statoil Fuel & Retail (SFR), McDonalds and McKinsey. As CEO, he led the process of publicly listing SFR on the Norwegian Stock Exchange in 2010. When Couche-Tard acquired SFR in 2012, he held the position as Group President for Europe until he stepped down in 2018. Schram initiated and led the global rebranding to Circle K at more than 10,000 stores across Couche-Tard's international network and service stations.

• IBA Group, the specialist aviation consultancy, has established a representative office in California. The move is a further example of IBA's ongoing commitment and growing presence in North America, and an example of the continued popularity and demand for aviation investment in the region. **Phil Seymour**, CEO of IBA, is pleased to welcome **Claudio Salazar** who joins as Regional Sales Manager, Americas. Salazar will be responsible for heading commercial business development. His primary focus will be strategic market development of IBA's digital and data services in North and South America, as well as facilitating



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growth across IBA's asset management, appraisal and advisory services divisions. He joins from aviation and analytics firm CIRIUM, where he spent over six years as a member of the Americas senior sales team with roles in business development across their core product and bespoke aviation advisory services portfolio.



Martin Longden

• Trenchard Aviation Group, a leading partner in aircraft cabin component design, manufacture, repair and on-wing maintenance, has appointed **Martin Longden** to the position of VP Interiors. Longden comes to the business with over 20 years' aerospace experience spanning MRO and aircraft interiors manufacturing. He has held senior C-level roles with an MRO business handling 60 airlines over 20 locations, and interiors manufacturing businesses. He has also held accountable manager positions for EASA PT21 G&J as well as PT 145. Bringing a unique blend of expertise to understanding a customer's needs and challenges, Longden has extensive experience across soft and hard products within the cabin and has worked with airlines on cabin solutions as well as supplying OEMs.

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publications

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Richmond, BC
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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	DVB Bank	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
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
A320-200	DVB Bank	V2527-A5	3734	2009	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-232	DVB Bank	V2527-A5	4552	2010	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
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
A330-223	Aircraft Engine Lease Finance	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 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
B737-800	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	ORIX Aviation	CFM56-7B26	34153	2005	Q1/2021	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
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800	Willis Lease	CFM56-7			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
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Nov 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164

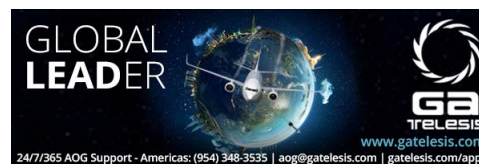
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THE AIRCRAFT AND ENGINE MARKETPLACE

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
(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				
(3) CF6-80E1A4	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 (all thrust levels)	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(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				
(2) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B6	Now - Sale / Lease				
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(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				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx1B74/75 Propulsor	Jan 2020 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(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
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4056-1C	Nov 2019 - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(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
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
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	jcmarin@logix.aero	+33.6.4782.4262
(2) PW127E/F	Now - Sale/Lease/Exch.		Remi Kry	rkry@logix.aero	+33.6.2079.1039
(4) PW127M	Now - Sale/Lease/Exch.				
(1) PW118	Now - Lease / Exchange				
(1) PW118A	Now - Lease / Exchange				
(1) PW119B	Now - Lease / Exchange				
(1) PW121	Now - Lease / Exchange				
(1) PW121A	Now - Lease / Exchange				
(1) PW125B	Now - Lease / Exchange				
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(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
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	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
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				

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 Cowl & Fan Cowl	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowl and Fan Cowl	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowl and Fan Cowl	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowl & Fan Cowl	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowl	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@azureres.com	1-954-249-7935
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, (2) GTCP131-9B,		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (3) 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 GTCP131-9B	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					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368