

Weekly Aviation Headline News

WORLD NEWS

British Airways takes flight to Islamabad

British Airways is beginning flights between London and Islamabad in Pakistan from June 2. The three-times a week Boeing 787 will offer World Traveller, World Traveller Plus and Club World services. BA is hoping to tap into the large British Pakistani population visiting the two countries every year and the cultural links between the two. Passengers can expect bespoke services to enhance the onboard experience including a halal meal option in every cabin, while the airline will also ensure sauces in every meal do not include alcohol or pork.

Unilode expands services portfolio

Unilode Aviation Solutions is strengthening its ULD solutions offering with the addition of short- and medium-term ULD leasing services. Effective immediately, customers have access to PMC and heavy-duty pallets, and further ULD types will be available soon. The ULDs can be leased from different strategic storage locations around the globe to increase customers' operational flexibility and cover for ULD imbalances and seasonal shortages.

FAA holds talks over Boeing relationship

The U.S FAA has held talks with aviation regulators from 33 countries to update them on the 737 MAX software update to try and get an idea as to when the troubled jetliner might head back to the sky. There is currently a total of 371 737 MAX aircraft grounded and regulators will be asking how the FAA approved the aircraft and specifically the anti-stall system that was implicated in the two crashes, and why it took so long to ground the aircraft.



Design work for Terminal F has started.

Photo: DFW

DFW and American build on partnership

Announcing plans for sixth terminal

Dallas Fort Worth International (DFW) Airport and American Airlines have announced plans to develop a sixth terminal.

The plans call for DFW to invest up to \$3.0 to \$3.5 billion in terminal improvements, including the construction of Terminal F and enhancements to Terminal C. The identified site south of Terminal D provides significant flexibility for phasing in the number of gates for Terminal F, with a long-term projection of up to 24 gates, as demand for additional facilities is warranted.

Design work for Terminal F will begin immediately. DFW and American

will explore several different options for the layout of the Terminal F site. DFW and American expect the details to be finalised as

“This announcement sets the stage for DFW Airport’s next 50 years,”

said Sean Donohue, CEO of DFW Airport.

part of a new airlines lease agreement for DFW that is being negotiated. DFW and American anticipate the investment to be financed by bonds and repaid through airlines rates and charges over the life of the bonds.

“This announcement sets the stage for DFW Airport’s next 50 years,”

said Sean Donohue, CEO of DFW Airport. “The new Terminal F and the expansion that could follow will provide the region with the growth it needs to compete with international business centres. The airport is growing faster than ever, and it needs to keep pace with the Dallas-Fort

Worth economy to provide jobs and connections for businesses and families. We’re grateful to Dallas Mayor Mike Rawlings, Fort Worth Mayor Betsy Price and Board Chairman Bill Meadows for their leadership. I want to especially recognise American for its commitment to DFW Airport. We look forward to

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working together to deliver what will be an efficient, modern terminal with a state-of-the-art customer experience.”

“This is exciting for American and our more than 31,000 team members who call Dallas/Fort Worth home,” said American Airlines Chairman and CEO Doug Parker. “American enjoys a wonderful relationship with the City of Fort Worth, the City of Dallas and DFW Airport, and we thank Mayor Price, Mayor Rawlings, and Sean and the entire DFW team for being such great partners. DFW is American’s largest hub and a central gateway to our extensive international and domestic network. The plans we’re announcing will allow for the continued growth of DFW and ensure the airport remains a premier gateway for American for many more years to come.”

“This is one of the most significant announcements in my eight years as mayor,” said Dallas Mayor Mike Rawlings. “The fact that American Airlines believes in the DFW International Airport Board and management enough to make this tremendous investment in the future of the Airport is something we should all celebrate. This will further solidify DFW’s standing as one of the best international airports in the world.”

The design of Terminal F is expected to accommodate a changing aviation industry as DFW utilises innovative technologies to facilitate the movement of customers, maintain cost efficiencies for airlines and improve operational performance.



American and DFW will continue to build their relationship
Photo: DFW

AIRCRAFT & ENGINE NEWS

German Government places order for three ACJ350s

The German government has placed a firm order for three Airbus ACJ350-900 XWBs, becoming the first government customer for the type, which has already been ordered by private customers. The aircraft are destined for a mix of government, troop transport and medical evacuation roles. Delivery of the first aircraft is planned for 2020, and the other two in 2022. Cabin outfitting will be facilitated by ACJ’s Easyfit cabin-outfitting concept, which features pre-installed attachments and standardized interfaces that greatly simplify installing walls and furniture in a carbon fibre fuselage. The ACJ350-900 XWB can fly 25 passengers 11,100 nm/20,550 km or more than 22 hours in its ultra-long range version.

Airbus delivers its 12,000th aircraft – an A220-100 to Delta Air Lines

Airbus has delivered its 12,000th aircraft ever in its 50-year history. The aircraft was an A220-100, assembled in Mirabel, Canada and handed over to U.S.-based Delta Air Lines. The aircraft is the 12th A220 delivered to date to Delta Air Lines since the carrier received its first A220 in October 2018. The A220 started scheduled service with Delta in February 2019, while it was the first U.S. airline to operate the A220 and is the largest A220 customer, with a firm order for 90 aircraft. This milestone delivery of a Canadian-made Airbus aircraft to a U.S.-based airline highlights the growing presence of Airbus in North America. Since Airbus’ leadership of the A220 program became effective on July 1, 2018, ground was broken in January this year in Mobile, Alabama for the construction of a second A220 final assembly line, set to start deliveries to U.S. customers in 2020. Airbus delivered its first aircraft, an A300B2 to Air France, back in 1974. Fast forward to 2010, Airbus handed over its 6,000th aircraft, 36 years after its first. The pace continued to accelerate, taking Airbus just nine years to double that number, reaching the 12,000th Airbus aircraft delivery on May 20, 2019.



The 12,000th Airbus jetliner is delivered to Delta Air Lines Photo: Airbus

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Embraer Praetor 600 now triple-certified

Embraer’s new Praetor 600 super-midsize business jet was granted its Type Certificate by EASA (European Union Aviation Safety Agency) and by the FAA (Federal Aviation Administration). The announcement was made during the company’s press conference at the European Business Aviation Conference and Exhibition (EBACE) in Geneva, Switzerland. Brazil’s Civil Aviation Authority (ANAC—Agência Nacional de Aviação Civil) awarded the new aircraft its Type Certificate on April 18 of this year. The Praetor 600 was announced and debuted at NBAA-BACE in October 2018, and is the only super-midsize business jet to be certified since 2014.



Photo: Embraer Praetor 600

Comlux delivers first VIP wide-body cabin completion



Comlux delivers first VIP wide body completion

Photo: Comlux

Comlux has delivered its first VIP wide-body cabin completion on an Airbus ACJ330. Both the interior design and the cabin outfitting have been performed by Comlux Completion, the Completion & Services center of the group, based in Indianapolis USA. The ultra-spacious interior of over 200 m² /2200 ft² allows up to 31 passengers to travel in ultimate comfort in various master suites, lounges, a dining area and first-class

seating. The aircraft is also equipped with a gym room and an entertainment area featuring a 52in curved OLED monitor. Since 2009, Comlux Completion has completed a full range of narrow-body completions from ACJ319/BBJ to ACJ321/BBJ3. This aircraft represents the 12th interior completion for Comlux Completion overall and the 1st wide-body completion.

SAS and Airbus to research hybrid and electric aircraft

SAS and Airbus have signed a joint Memorandum of Understanding for hybrid and electric aircraft eco-system and infrastructure requirements research. This is a unique cooperation to establish the requirements for the next generation of sustainable aircraft. The project aims to gain an understanding of the introduction of hybrid-electric aircraft for large-scale commercial use. The partnership involves a joint research project where SAS and Airbus will work together to build knowledge of the opportunities and challenges regarding operations and infrastructure linked to large-scale introduction of hybrid and electric aircraft in commercial traffic. SAS has, for decades, worked to reduce emissions while focusing towards a more sustainable flying. SAS' goal is to reduce emissions by 25 per cent by 2030, mainly by modernizing the fleet and increasing the use of biofuels. It sees electric aircraft as the next step beyond the current technology. The collaboration also includes an ambition to involve a renewable energy supplier to ensure genuine zero-emissions operations.



SAS and Airbus research hybrid electric aircraft

Photo: SAS

Helitrans becomes first operator to receive H125s with digital logcards



One of Helitrans' Airbus H125 helicopters delivered with digital logcards

Photo: Airbus Helicopters/Eric Raz

Norwegian helicopter operator Helitrans has taken delivery of two Airbus H125 helicopters with digital logcards, becoming the first H125 operator able to manage the maintenance history of its aircraft components digitally, resulting in better data quality, time savings, and simpler processes, thereby reinforcing flight safety. These helicopters are the first two in a series of seven H125s ordered by Helitrans to be delivered with fully digital logcards. They will be used for a wide range of missions that cover powerline construction and firefighting, as well as sightseeing trips, passenger transport, photography and telecom network development.

HK Bellawings Jets signs LOI for five Global 7500 aircraft

Hong Kong aircraft management company HK Bellawings Jet Limited has signed a letter of intent (LOI) with Bombardier for five new Global 7500 business jets and has also exercised options for two others, as part of the initial agreement signed in May last year. The Global 7500 aircraft was showcased for the first time at the European Business Aviation Conference & Exhibition (EBACE) in Geneva. Established in 2014, HK Bellawings Jet Limited is a distinguished business jet management company dedicated to providing a diverse array of professional, highly efficient and comprehensive business aviation services and solutions, which include business jet management, aircraft maintenance, travel concierge service, aircraft acquisition service, and business aviation consultancy. It operates a fleet of Challenger and Global business aircraft.



Bombardier and HK Bellawings Jet signing ceremony at EBACE 2019

Photo: Bombardier

AIRCRAFT & ENGINE NEWS

Air Lease Corporation delivers new Airbus A350-900 to Sichuan Airlines

Air Lease Corporation has delivered one new Airbus A350-900 aircraft on long-term lease to Sichuan Airlines. Featuring Trent XWB-84 engines, this A350-900 is the first ALC A350-900 to deliver to an airline in China. The aircraft is from ALC's order book with Airbus and joins eight other Airbus aircraft currently on lease from ALC to Sichuan Airlines.

MRO & PRODUCTION NEWS

Southwest Airlines to build new maintenance hangar in Denver

Southwest Airlines has announced that it intends to begin construction on its first maintenance hangar at Denver International Airport this summer. The nearly US\$100 million investment will allow Southwest's Mechanics to work on up to three aircraft inside the 130,000 ft² hangar. There will be parking and facilities outside the hangar for eight additional aircraft. Ground breaking is expected to occur within the next few months and the hangar is anticipated to be completed in late 2020. The facility can house the 75 Technical Operations Employees currently working in Denver, who are responsible for maintaining Southwest's all-Boeing 737 fleet. Once opened, it will join the six other hangars located in Atlanta, Chicago, Dallas, Houston, Orlando, and Phoenix. Overall, the carrier employs more than 4,000 people within its Technical Operations department. Denver International Airport is one of Southwest Airlines' top-five airports in terms of daily departures in its network of more than 100 cities and offers up to 224 daily departures to nearly 70 nonstop destinations. The carrier employs 4,200 people in Denver.

Honda Aircraft Company to expand production facility in Greensboro, NC

Honda Aircraft Company plans to expand its global headquarters in Greensboro, NC by investing an additional US\$15.5 million in a new 82,000-ft² facility on its 133+ acre campus in Greensboro. This will bring the company's total capital investment in its North Carolina facilities to more than US\$245 million. Scheduled to break ground in July 2019, the building will house a new wing assembly process for the HondaJet Elite. The new facility will allow for more wings to be assembled concurrently, resulting in a major increase in production efficiency. Additionally, this ex-

Airbus increases A220 aircraft range by up to 450 nm



A220 Family in flight

Photo: Airbus

Airbus has reported that the A220 Family aircraft, the newest addition to its single-aisle portfolio, will now be offering increased range starting from second half in 2020. The A220 aircraft maximum take-off weight (MTOW*) is now confirmed to increase by 2,268 kg (2.3 metric tons). The new MTOW will increase the respective maximum range capabilities to 3,350 nm for the A220-300 and 3,400 nm for the A220-100, some 450 nm more than currently advertised. This performance increase is achieved by taking credit of existing structural and systems margins as well as existing fuel volume capacity. This will allow airlines to tap into new routes that were not possible before, connecting key cities in Western Europe with the Middle East or from Southeast Asia to Australia. The A220 has been purpose built for efficiency. It brings together state-of-the-art aerodynamics, advanced materials and Pratt & Whitney's latest-generation PW1500G geared turbofan engines to offer at least 20% lower fuel burn per seat compared to previous-generation aircraft. *The current basic MTOW is at 60.8 t for the A220-100 and 67.6 t for the A220-300. With the new MTOW increase of 2.3 t, the respective aircraft's MTOW will be brought up to 63.1 t for the A220-100 and 69.9 for the A220-300.

pansion will add more storage for service parts for the growing fleet of HondaJets around the globe. The facility is expected to be completed in July 2020.

CAS awarded Maintenance Approval Certificate from Civil Aviation Authority of the Philippines

Certified Aviation Services, (CAS), has been awarded the Maintenance Approval Certificate from the Civil Aviation Authority of the Philippines (CAAP AMO 483-F). The scope of this

certificate covers work for CAS' LAX line maintenance station and its AOG Go-Team division. The CAAP AMO requires its candidates to assemble a safety management system (SMS). After the completion of the SMS it must then be approved by the Philippine's government. CAS completing and receiving approval of its SMS shows its commitment that safety and quality standards are always met. The certification authorizes CAS to provide line maintenance support at its LAX station on all Philippine's registered operators. It will also permit CAS' AOG Go-Team division to release any aircraft in its operations specification that is a Philippine's registered operator.

MRO & PRODUCTION NEWS

StandardAero adds Business Aviation Engine MRO capacity at Fleetlands, U.K. facility

StandardAero's Fleetlands, U.K., engine MRO facility has increased capacity by 50% to support its TFE731 engine line MRO services. As a result, StandardAero can fully process engine overhauls and has recently completed a pair of TFE731 Major Periodic Inspections (MPIs) within established U.S. shop turnaround time for a European customer. In addition, and since the beginning of this year, the company has also added capabilities including technicians, tooling, workstations and hardware, while adopting its global best practices developed over nearly 40 years of servicing TFE731 engines at its U.S.-based facilities. StandardAero is also continuing to invest into PW300-series capabilities at Fleetlands by adding additional capacity for PW305, PW307 and PW308 engine model MRO services, including rental engines that have been procured to support operators who may not have OEM rental coverage. On top of investments to expand and grow its engine MRO services, StandardAero has added new customer offices to provide operators with convenient workspaces on site and near the engine shop. Additionally, a new Mobile Services Center has been created at the Fleetlands site, as a base for launching mobile support teams across the region.

GKN Fokker Services supplies ADS-B Out solution to Estafeta's Cargo Airline

GKN Fokker Services and Estafeta's cargo airline have signed a contract to deliver GKN Fokker Services' customized ADS-B Out solution to Estafeta's cargo airline B737 fleet, that is servicing Mexican domestic and global markets. Estafeta, a logistics service provider, needed to equip their fleet in order to comply with the new ADS B-Out mandate with a deadline of 2020. Operating its cargo airline from the international Airport Ponciano Arriaga as their main hub, Estafeta placed an order with GKN Fokker Services to ensure compliancy with the new regulations. In need of an ADS-B Out solution including standalone GPS, and flying a fleet with different configurations, the cargo airline was looking for a tailored solution. After a phase of extensive information exchange, GKN Fokker Services and Estafeta are closely working together to guarantee the timely installation of a solution that fits all requirements and specifications. Estafeta has also purchased the Traffic alert and Collision Avoidance System 7.1 (TCAS7.1) modification from GKN Fokker Services.

Lufthansa Technik starts support for South African carrier Comair

Lufthansa Technik supports South African-owned carrier Comair with comprehensive

Rolls-Royce delivers first Pearl 15® production engines



Rolls-Royce delivers the first sets of Pearl® 15 production engines to Bombardier for the first Global 6500 aircraft
Photo: Rolls-Royce

The first sets of Pearl® 15 production standard engines were delivered to Bombardier and have been fitted to the first Global 6500 aircraft that is now in completions in readiness to power its latest business jet into service. While Bombardier has started interior completion work on the first customer aircraft, the Rolls-Royce site in Dahlewitz, Germany, is ramping up the Pearl® 15 production. Flight testing is on track to support the aircraft certification and a smooth entry into service later this year. The Pearl® 15 is the newest addition to Rolls-Royce's business aviation engine portfolio, exclusively powering Bombardier's Global® 5500 and 6500 aircraft. The engine was carefully designed and optimized in partnership with Bombardier to complement the Global 5500 and Global 6500 aircraft. Both aircraft and engines were unveiled to the public at the 2018 European Business Aviation Convention and Exhibition in Geneva.

Inflight The Jet Centre secures Rolls-Royce ASC status

Inflite The Jet Centre, part of the Inflite group of companies, based at London Stansted Airport, has received Authorised Service Centre status from Rolls-Royce to support the engines that power Embraer's Legacy 600 and 650 business jets. Effective immediately, Inflite will deliver the OEM's CorporateCare® and CorporateCare Enhanced MRO services to the Rolls-Royce AE 3007, covering line maintenance and power-by-the-hour support. The OEM's CorporateCare, the comprehensive, fixed-cost engine maintenance management program, protects against unforeseen costs and unscheduled events anywhere in the world and reduces the administrative burdens for operators, freeing them



Photo: Inflight The Jet Centre secures Rolls-Royce ASC status

up to focus on their day-to-day business. Inflite is making an investment in parts and training in support of the contract. It is also adding personnel, with an initial four Rolls-Royce trained technicians moving over to its London Stansted facility this month.

MRO & PRODUCTION NEWS

technical services and integrated fleet management. Operations at the first two local line maintenance stations of the MRO company have already begun. Comair has contracted Lufthansa Technik to provide Total Technical Support (TTS®) for its Boeing 737 fleet. The agreement includes integrated fleet management, known as Technical Operations Management (TOM), engineering services, the provision of consumables and expendables, integrated component delivery as part of Total Component Support (TCS®) and the establishment of local line maintenance stations. The first two such stations providing comprehensive line maintenance services have been set up in Johannesburg (up to A-checks in an own maintenance hangar) and Cape Town (up to weekly checks). Full technical support for the first Boeing 737-800 of Comair started in the middle of May 2019. On May 22, 2019, the first two local facilities of Lufthansa Technik Maintenance International in South Africa were officially opened. Ulrich Hollerbach, CEO of Lufthansa Technik Maintenance International, commented: “We have a lot of experience in setting up maintenance stations in different regions of the world, but South Africa is something special for us. It’s a much bigger project than most, since we had to construct the entire organization literally from the ground up.” 45 local mechanics, avionic technicians and managers are already working at the new stations – with more to follow this year. By the end of 2020, Lufthansa Technik will be servicing the entire Comair fleet and will have set up various line maintenance stations with up to 120 local employees.

Joramco performs first B787 C-check for Royal Jordanian airlines

Joramco, the Amman based MRO and the engineering arm of Dubai Aerospace Enterprise (DAE), has performed its first C-check on a Royal Jordanian Boeing 787 at its facility in Amman-Jordan. Jeff Wilkinson, Chief Executive Officer of Joramco said: “We are delighted to be increasing our B787 capability; the B787 is a key aircraft within our strategic plans and the increased scope of approval has been welcomed by our customers. We continue to build on Joramco’s success as a leading MRO facility offering a globally competitive suite of MRO services”.

C&L Aviation Group receives EASA approval for Saab 340 ADS-B out solution STC

C&L Aviation Services (C&L) has received EASA approval for its Saab 340 A&B ADS-B solution. The STC certifies the installation of dual Garmin GTX-3000 transponders and uses either the

Lufthansa Technik ready to offer cabin completions for Airbus A220



A220 SkyRetreat

Photo: LHT

Lufthansa Technik AG is ready to offer cabin completions for Airbus’ smallest commercial aircraft family, the A220. The company has already developed a first VIP cabin interior concept, parts of which will be showcased for the first time at this year’s European Business Aviation Conference and Exhibition (EBACE) in Geneva. The spacious SkyRetreat concept will feature a totally new and unconventional design approach. As a consequence, the cabin interior envisaged by Lufthansa Technik’s designers for the Airbus A220 calls for a reduction to the essential, thereby cleverly and discreetly integrating latest cabin technologies, from 4K roll-up displays and smart touch surfaces to a totally unique Observation Lounge to be revealed in the coming months. “Although the A220 represents the new entry level of both Airbus’ corporate jet portfolio as well as our completions offerings, it already provides an incredible amount of space for breathtaking VIP interiors,” states Wieland Timm, Senior Director Sales, VIP & Special Mission Aircraft at Lufthansa Technik. “Our SkyRetreat concept makes optimum use of this spacious cabin and its technical features will provide our customers with a whole new sense of space and a unique travel experience.”

Four Seasons selects A321LR for air cruises



Four Seasons A321LR seating

Photo: Airbus

Four Seasons Hotels and Resorts has chosen the A321LR as its private jet for luxury worldwide travel, launching a new role for the Airbus corporate jet family. The aircraft will enter service in 2021. Airbus’ A321LR is one of the newest aircraft in its NEO family, and features new

engines and wingtip-mounted Sharklets – as well as extra fuel tanks in the cargo-hold. These features give the A321LR the efficiency and range to fly nonstop to landmark sights around the world, while maintaining the ability to land at nearby airports.

MRO & PRODUCTION NEWS

Garmin GDL-88 SBAS/WAAS GPS or Universal Avionics SBAS/WAAS FMS GPS including the UNS-1Ew, UNS-1Espw, UNS-1Lw, and UNS-1Fw FMS systems to comply with the FAA Automatic Dependent Surveillance-Broadcast-Out (ADS/B-Out) mandate requiring compliance before January 1, 2020, and the EASA requirement date of June 7, 2020. This is the first STC approval C&L has generated using their in-house engineering company, C&L Engineering Services. The company is working on several other STC projects, including ADS-B solutions for other regional and corporate aircraft types.

Passport and CF34 Authorized Service Center network expanding globally

GE Aviation has strengthened its service and support network in critical regions where the Passport-powered Bombardier Global 7500 and CF34-powered Challenger series aircraft and customers are based. GE Aviation named Bombardier’s Tianjin Service Centre in China as

CTT Systems partners with Airbus Corporate Jets to optimize humidification system for ACJ320 Family

CTT SYSTEMS AB (CTT), a market leader in aircraft humidity control systems, has signed a memorandum of understanding with Airbus Corporate Jets to optimize a humidification system for the ACJ320 Family to further improve efficiency and performance. Cabin humidity



Peter Landquist of CTT (left) and Benoit Defforge of ACJ Photo: Airbus

is typically low in VIP passenger aircraft cabins, but with a CTT humidification system it can be increased to better than 20% by continuously introducing moisture to improve passenger comfort and well-being. Moisture build-up in insulation blankets will be avoided by combining a dryer with the humidifier to achieve balanced humidity. “Our shared goal is to create evenly distributed humidification throughout the VIP cabins of Airbus corporate jets, while minimizing the potable water needed, bringing the benefit of our airliner experience to the world of private jets in an optimized and economic way,” says Peter Landquist, Vice President Sales & Marketing, CTT Systems.



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MRO & PRODUCTION NEWS

an Authorized Service Center for GE's Passport and CF34-3 engines in April. With the announcement, GE has combined Passport and CF34-3 Authorized Service Centre agreements in place at eight Bombardier Service Centre facilities around the world. These include Tianjin in China, Biggin Hill in England, Singapore, and Hartford, Fort Lauderdale, Dallas, Wichita and Tucson in the United States. GE also has services agreements in place with Bombardier's European line station network and the fleet of U.S.-based mobile repair trucks. GE has a maintenance support agreement with Lufthansa Technik AERO Alzey GmbH (LTAA) for dispatching mobile repair teams to locations outside the United States. LTAA's mobile repair teams will have ten dedicated technicians to support GE Passport operations. LTAA has been a member of GE's Authorized Service Center network for CF34-series engines since October 2014. The GE Strother mobile repair team is providing support in the Americas. Both the Strother and LTAA mobile repair teams supported the Global 7500 aircraft flight test program for Passport to gain operational experience with the engine and to ensure concierge-style service in parallel with entry into service. Both GE and LTAA have received EASA Part 145 certification for the Passport engine.

FINANCIAL NEWS

FL Technics finalizes year 2018 with €10,8 million net profit

FL Technics, a global provider of integrated aircraft maintenance, repair and overhaul services, earned €119 million in revenue in 2018, which is approx. 14% more than in 2017 (€103 million) and reached net profit of €10.8 million (€5,7 million in 2017). FL Technics has expanded their clients' portfolio by signing Lufthansa Group for an €11 million contract for 28 aircraft per annum for base maintenance services. The company signed a long-term line maintenance contract with Wizzair for 11 Airbus A320 family aircraft in the Vienna line station. It also has increased its training program scope for the Boeing 777, Airbus A320 NEO, ATR 42/72, Boeing 767, and Airbus A330. Now, FL Technics has 240 technical training programs in 59 locations worldwide. FL Technics Indonesia earned a Part-145 certificate from U.S. Federal Aviation Authority to provide maintenance and repair services to aircraft registered in the United States. The company has established FL ARI – a joint venture with China Airlines Leasing Group Holdings Limited (CALC) and its subsidiary Aircraft Recycling International (ARI) that will service aircraft in Harbin (China). FL ARI will operate a 15,000 m² hangar with four slots for narrow-body aircraft.

MTU Maintenance and GoAir sign exclusive CFM56-5B contract



Photo: MTU

MTU Maintenance has signed an exclusive four-year CFM56-5B contract with GoAir, a low-fare carrier based in Mumbai, India. The contract covers the maintenance, repair and overhaul as well as spare engine support and on-site services for the CFM56-5B engines powering the airline's 17 A320 aircraft. Launched in 2005, GoAir is an aviation foray of the Wadia group, one of the largest conglomerates in India. The carrier operates 230 flights per day across the Indian subcontinent and international flights to Phuket, Male, Muscat and Abu Dhabi. With 144 A320neo aircraft on order, the airline is poised for further growth.

Three major Chinese Airlines turn to Boeing for 737 MAX compensation



Photo: AirTeamImages, Air China

According to Chinese state media reports, Air China, China Eastern and China Southern, the country's largest three airlines, have all submitted formal requests to Boeing for compensation as a consequence of the grounding of all 737 MAX jets worldwide. Following the second of two fatal crashes involving the MAX jet which had displayed similar problems to the first, China's regulator was the first to order the grounding of all Chinese airline-owned 737 MAX jets. Currently China Southern Airlines has 24 grounded 737 MAX jets, while it also has orders for 56 more, though delivery of these will now be delayed owing to the halting of all deliveries until the aircraft is deemed airworthy again by the U.S. Federal Aviation Authority (FAA). Air China has 15 grounded 737 MAXs with a further 30 on order, while China Eastern Airlines has 3 grounded MAX jets and a further 36 on order. In addition to compensation for the grounded jets, it is understood that compensation will also be sought for delays to the delivery of ordered jets. Last week Boeing confirmed it had completed development of the software update to the 737 MAX, just in time for the aviation regulators summit which is taking place in Texas this Thursday, May 23, at which the FAA is expected to deliver an update on the reviews of the software fix and new pilot training. 57 agencies from 33 countries, including China, France, Germany and the U.K., as well as the European Union Aviation Safety Agency will be attending the summit. However, as yet, there is no indication whether the grounded 737 MAX jets will be flying again in time for the traditionally busy summer period.

FINANCIAL NEWS

Héroux-Devtek reports fiscal 2019 net income of CA\$26.2 million

Héroux-Devtek, a leading international manufacturer of aerospace products, has reported strong results for the fourth quarter and fiscal year ended March 31, 2019. For fiscal 2019, consolidated sales reached CA\$483.9 million, up 25.2% from CA\$386.6 million in fiscal 2018. Commercial sales were at CA\$236.3 million, up from CA\$195.1 million a year ago, while defense sales stood at CA\$247.6 million, up from CA\$191.5 million last year. Sales growth was mainly driven by CESA and Beaver, followed by increased deliveries for the Boeing 777 and 777X programs, higher sales in the business jet market from the ramp-up of deliveries for the Embraer 450/500 program and higher sales of spares to the U.S. Government. Year-over-year fluctuations in the value of the Canadian currency versus foreign currencies had a positive net impact on sales of US\$4.3 million. Gross profit for fiscal 2019 increased to CA\$83.2 million, or 17.2% of sales, from CA\$61.3 million, or 15.9% of sales last year. Operating income was CA\$37.2 million, or 7.7% of sales, from CA\$23.4 million, or 6.0% of sales a year ago. Adjusted operating income grew to CA\$41.6 million, or 8.6% of sales, up from CA\$30.3 million last year, or 7.8% of sales. Adjusted EBITDA reached ca\$74.2 million, or 15.3% of sales, up from ca\$56.9 million, or 14.7% of sales last year. Net income stood at CA\$26.2 million an increase from CA\$13.7 million in fiscal 2018. Adjusted net income stood at CA\$30.4 million an increase from CA\$24.2 million last year. (US\$1.00 = CA\$1.35 at time of publication.)

Italian government won't let Piaggio be broken up despite being in administration

Having been in administration since last year, Italian aircraft maker Piaggio Aerospace will not be broken up as a buyer is sought, according to a statement from Italian government Deputy Prime Minister Luigi Di Maio. The hope is that a buyer will be found for the whole, or one of its two divisions – engines or aircraft – both of which have production and maintenance capabilities. May 15 had been set by Piaggio Aerospace's extraordinary commissioner for non-binding expressions of interest. According to Reuters, 39 non-binding expressions had been received from potential buyers, 26 of which were for the company as a whole. Leonardo, the Italian defense group has expressed an interest, but only for the maintenance activities of the engine and aircraft divisions. However, this option has not been ruled out by Di Mayo, despite confirming "What I don't want is a break-up of this company." Formerly known

Ryanair's annual profit slumps 29% to four-year low

Ryanair has reported its lowest annual profit for four years, warning that earnings could fall further during what CEO Michael O'Leary describes as "attritional fare wars". Shares closed at €10.30, a drop of 4.6%, having rallied slightly from a 6% drop after reassurance from O'Leary that a couple of years of lower fares and profitability was a reasonable price to pay for consolidation and an increased market share. This is still 40% below its August 2017 high of €19.39 prior to disruptive industrial unrest and fare weakness. The €1.02 billion after-tax profit annual profit to March 31, a drop of 29% year on year, was in line with investor forecasts, while revenues increased 6% to €7.56 billion, traffic grew 7% and fares declined 6% for the year. However, the low-cost carrier's forecast for the current financial year, ending March 31, 2020, at between €750m and €950m was much worse than anticipated. However, this figure includes the acquisition of loss-making Laudamotion for the first time. Ryanair has also been hit by the worldwide grounding of the Boeing 737 MAX jet in March. While the carrier currently has none of the aircraft, it had anticipated, starting early this year, to take delivery of the first of the 135 737 MAX 200s it has on order with an option for a further 75. This delay has forced the carrier to cut around 1 million seats for the period to end March 2020. However, despite the delays in delivery of the MAX200s, which is suspended until the FAA grants Boeing approval for upgrades which are believed to reduce the likelihood of any similar crash to the two recent ones, Ryanair anticipates operating up to 50 of the MAX 200 aircraft by next summer.



Photo: Ryanair

AAR delivers first P-8A Poseidon to U.S. Navy fleet



AAR delivers first P-8A Poseidon to U.S. Navy fleet

Photo: AAR

AAR has completed its first planned overhaul, age exploration and planned inspection of its first U.S. Navy P-8A Poseidon (P-8A) aircraft. As part of a seven-year, indefinite-delivery/indefinite-quantity (IDIQ) contract signed last year with the Navy, AAR is providing heavy depot airframe maintenance, as well as year-round field support, for the U.S. fleet. The P-8A aircraft arrived at AAR for its first Age Exploration Plan Depot (AEPD) visit, which is part of a systematic, scheduled maintenance requirement. In addition to the P-8A program, AAR has also performed service on the U.S. Navy's C-40, Clipper, Harrier Jet Sustainment, C-9 Nightingale and H60R fleets. All of the maintenance for the P-8A Program is performed at AAR's Indianapolis facility, which has serviced over 2,000 B737 aircraft both for commercial and government customers.

FINANCIAL NEWS

as Piaggio Aero Industries and founded in 1884, Piaggio Aerospace is one of the world’s oldest aircraft manufacturers. The company is currently 100 percent owned by the Abu Dhabi-based Mubala Development Company. Piaggio Aerospace requested it be placed into receivership on November 22, 2018, having declared itself insolvent only a year after Mubala had injected €255 million (US\$308 million) and repurchased its bank debt.

MILITARY AND DEFENCE

Heroux-Devtek firms up landing gear supply agreement for Boeing’s F/A-18 program

Héroux-Devtek has concluded its previously announced agreement to supply the main landing gears for Boeing’s F/A-18E/F Super Hornet and EA-18G Growler and has extended the scope of the agreement to include the manufacturing of the nose and main landing gears for Boeing’s Advanced F-15 program. The extended scope will also include the supply of spare parts and aftermarket services for both defense aircraft programs and covers a period of performance of five years. The original supply agreement, announced during the Farnborough Airshow on July 17, 2018, provided for the manufacture and assembly of main landing gears and side braces for Boeing’s F/A-18E/F Super Hornet and EA-18G Growler, with first deliveries in the third quarter of 2020. This extended “Indefinite Delivery / Indefinite Quantity” scope now also includes the delivery of spare parts and aftermarket services for these landing gears. Additionally, the agreement has been extended to include the manufacture and assembly of the nose and main landing gears for Boeing’s F-15 fighter jets, including spare parts and aftermarket services. First deliveries are expected to occur towards the beginning of 2023.

INFORMATION TECHNOLOGY

Ideagen, the UK-based, global software firm, has announced it is to supply its software to a major aircraft maintenance organization in the Middle East. **Joramco**, an independent commercial aircraft maintenance, repair and overhaul (MRO) organization based in Jordan, will adopt Ideagen’s Q-Pulse, Q-Pulse Risk and PleaseReview products. Joramco will use Ideagen’s software as it aims to automate and support key processes associated with its quality, safety, risk and regulatory requirements. Operating for more than 50 years, Joramco – majority owned by Dubai Aerospace Enterprise (DEA) since 2016 – has



hullo Aircrew expands into permanent pilot recruitment

Photo: hullo Aircrew

Two years after the launch of its industry-first software platform connecting operators with aircrew for freelance and contract flights at EBACE 2017, **hullo Aircrew** has reported a 200% growth in its membership. It holds 3,000 candidates on its database and recently moved into offering permanent air crew positions, in response to demand. Since February, Edward Cousins has been back on the team as Director of Business Operations, overseeing widening out its reach through the EMEA region. He has now brought in Andrea Jilkova as Business Development Manager, a seasoned professional within the business aviation industry, already proving a valuable member of the team exploring new markets. The whole team is geared up to solve obstacles when it comes to all things crewing. Cousins is also passionate about pro-actively addressing the industry’s reported pilot shortage. “We are looking to approach local authorities to encourage standardization on training across the industry, using hullo Aircrew’s skillset in building a network to help build a consortium of operator training agreements,” he comments. This, Cousins believes, would play a part in alleviating the pressure on commercially competitive flight operations – and also help to drive down costs.



Boeing and HK Bellawings Jet sign agreement for Jeppesen JetPlanner Pro at EBACE 2019

Photo: Boeing

Boeing has signed agreements with business aviation companies **Jet Aviation** and **HK Bellawings Jet** for its advanced **Jeppesen Operator** and **Jeppesen JetPlanner Pro** digital solutions. Signing a five-year agreement for the Jeppesen Operator digital offering, Jet Aviation now has a tool that integrates its key business aviation functionality in a one-stop shop self-service environment for its U.S. operations. Jeppesen Operator integrates overall flight planning, runway performance, weight and balance, and crew and fleet scheduling/management. It also integrates self-service trip planning, reporting, customer account management, real-time pricing and cost accounting capabilities. HK Bellawings Jet signed a seven-year agreement for the Jeppesen JetPlanner Pro offering, which provides end-to-end flight planning, dispatch operations and route optimization for its fleet. With an intuitive dual-screen interface and a built-in business-rule automation system, this digital solution also integrates with other external services to provide a comprehensive operations environment.

INFORMATION TECHNOLOGY

maintained a strong track record as a leading commercial aircraft MRO organization.

Finnair and the artificial intelligence company **Silo.AI** have built a machine-learning artificial intelligence tool that enables an airline to predict possible disruptions to air traffic more accurately. In Finland, this unprecedented solution can, for example, be used to assess the impact of weather on the punctuality of flights, so that preparations for irregularities can be made in advance. Flight punctuality is one of the biggest factors that affects customer satisfaction, and weather is one of the biggest factors affecting the punctuality of air travel globally. With Silo.AI's artificial intelligence solution, Finnair will be able to better prepare for exceptional circumstances caused by weather and plan actions to minimize the impact on customers well in advance. "We tested the artificial intelligence solution in the pilot phase last winter and the results were encouraging," says Juha Karstunen, digital transformation lead at Finnair. "The goal is to implement the solution as part of a broader technical reform later this year. We are also developing other intelligent solutions to support decision-making. Exceptional weather conditions are common in air travel, and our goal is always to minimize their impact on our customers' travel plans." Silo.AI is the largest private artificial intelligence laboratory in the Nordics that builds artificial intelligence solutions as a consultancy service for various industries. In the pilot phase of the project, the company utilized Finnair's historical punctuality data, total runway capacity forecasts, actual weather forecasts as well as past weather forecasts. There is also a warning mechanism built into the artificial intelligence solution that alerts if a certain number of flights are expected to be delayed.

OTHER NEWS

Pobeda Airlines has purchased the Fox Training Management System (Fox) by **Britannica Knowledge Systems** as its new training management platform. Operating since December 2014, Pobeda is a new and growing low-cost airline, slated to have 108 routes across Russia and abroad by mid-June 2019. Pobeda will use Fox to manage and improve pilot qualification training and compliance, courseware delivery, online testing, and performance evaluation. Fox's scheduling module will oversee all pilot training events and resources. Pobeda's instructors and evaluators will use the Fox Grading app to ensure training quality and to maintain standards by capturing performance data, in real-time on mobile devices, both online and offline. In addition, Pobeda will implement Fox with the support of Fox's new



Photo: Ural Airways

Moscow Domodedovo Airport has announced the introduction of direct flights to Bordeaux and Montpellier. From June 1, 2019, **Ural Airlines** will fly three times a week on Mondays, Thursdays, and Saturdays from Moscow Domodedovo Airport to Bordeaux. From June 2, 2019, Ural Airlines will also add Moscow Domodedovo-Montpellier route. The flight will operate three times a week on Wednesdays, Fridays, and Sundays. Ural Airlines and Moscow Domodedovo Airport have been cooperating for more than a quarter century. Over the past ten years, the airline has served 27 million passengers at Moscow Domodedovo Airport and operated 200 thousand airfield operations. Ural Airlines' network from Moscow Domodedovo Airport includes north of fifty regular and charter destinations. The compound annual growth rate of the airline's passenger traffic amounted to 23% from 2009 to 2018.

easy onboarding tools and guidelines. Probeda is wholly owned by Aeroflot, the country's 96 year-old flag-carrying airline. Pobeda boasts 29 modern and comfortable Boeing 737-800 NG aircraft.

Finnair and **China Southern** have agreed on new codeshare partnership starting on June 1, 2019. The cooperation includes the Finnair route between Guangzhou and Helsinki, and selected China Southern destinations in China. The new codeshare partnership adds five new destinations to Finnair's network in China, and customers will be able to connect with China Southern from Guangzhou to Changsha (CSX), Chongqing (CKG), Hangzhou (HGH), Nanjing (NKG), Sanya (SYX), Wenzhou (WNZ), Xiamen (XMN) and Xi'an (XIY). In addition, China Southern code CZ will be added to Finnair flights from Helsinki to several popular destinations in Europe: Amsterdam (AMS), Billund (BLL), Copenhagen (CPH), Goteborg (GOT), London (LHR), Paris (CDG), Riga (RIX) and Stockholm (ARN).

IBA Group, the specialist aviation consultancy, has established a representation in Tokyo, Japan.

The move is a further example of IBA's ongoing commitment and growing presence in Asia Pacific, and an example of the continued popularity and demand for aviation investment in the region. IBA's main services include aviation data, appraisals, asset management and advisory. "Introducing formal and experienced representation in Japan builds on our strategic plan for closer ties with the aviation community across the wider Asia region. In the coming months we will also be announcing representation in China to further strengthen our capability with another local team," says Phil Seymour, CEO of the IBA Group. IBA's associates in Japan include Reina Akiyama and John Duley. "Their significant experience in aviation, software, and their understanding of the complexities of aviation jurisdictions and the market will hone our core service provision and tailored customer programs" he adds. IBA hopes to further strengthen ties with the Japanese aviation community over the coming months and the team will facilitate the delivery of IBA's aviation data intelligence platform IBA.iQ. IBA.iQ is an online analysis tool providing data on portfolio values, historical data, utilization of aircraft, fleet data and the impact of macro-economic variables.

OTHER NEWS

WestJet Encore flight dispatchers, represented by the **Canadian Airline Dispatchers Association (CALDA)**, have successfully ratified a three-year agreement. This ratified agreement starts May 22, 2019 and expires on May 22, 2022. “We are pleased with today’s outcome and believe that this agreement recognizes the hard work and valuable contributions of our WestJet Encore dispatchers,” said John Aaron, WestJet Vice-President and General Manager, Encore.

Following **Brazil’s** lower chamber approval, the Senate has passed legislation which will allow foreign-controlled airlines to operate domestic flights within the country, which is Latin America’s largest air-travel market. However, as Congress has added a codicil whereby airlines are now banned from charging passengers for their first checked bag, this now means that President Jair Bolsonaro’s signature will be required before the legislation becomes law. The checked-bag restriction has not been welcomed by airlines or the Latin American and Caribbean Air Transport Association transport group as this may restrict opportunities for low-cost airlines and may ultimately see higher fares being charged. According to Reuters, Brazil’s air travel regulator **ANAC** has already granted its first preliminary permit to a foreign airline, Spain’s **Air Europa**, to explore setting up a domestic subsidiary. The carrier’s interest was announced last Saturday by Brazil’s infrastructure minister. Previously, any stake by a foreign owner in a Brazilian airline had been capped at 20%. This new legislation will now see that ceiling totally removed. Certainly there will now be a shake-up of the previously dominated domestic market where the top-three Brazilian carriers, **Gol Linhas Aereas Inteligentes**, **LATAM Airlines Group** and **Azul SA**, hold a 92% share and all of which have minority investments from foreign carriers: **Delta Air Lines** Inc owns 9.4% of Gol, the leader in domestic flights in Brazil and **United Airlines** owns 8% of third-place Azul. **Qatar Airways** owns 10% of LATAM, Brazil’s No. 2 domestic airline. Currently, Brazil’s fourth largest carrier, **Avianca Brasil**, is going through a bankruptcy reorganization, whereby it is now selling off its most profitable domestic routes. This could be extremely beneficial to any foreign investor looking to get a head start in the domestic Brazilian market.

Intended to generate growth for European business, foster innovation and enable passengers to profit from safer, cleaner and cheaper flights, in a follow-up to the April 9 EU-China summit the **European Commission** signed an agreement on civil aviation safety and also a horizontal aviation agreement aimed at strengthening aviation cooperation on Monday May 20. The signing



TAG Aviation Macau FBO receives IS-BAH Accreditation for Ground Handling Operations at EBACE 2019
Photo: TAG Aviation

TAG Aviation Macau’s Fixed Base Operation (FBO) has been awarded the International Standard for Business Aircraft Handling (IS-BAH) Stage 1 certificate of registration from the **International Business Aviation Council (IBAC)** for their unwavering commitment to safety and quality ground handling. The IS-BAH standard, which focuses on the refueling, ground handling and storing of general aviation aircraft, is a set of global industry best practices in safety management and risk mitigation for business aviation ground handlers. The accreditation process involves a complete audit of the FBO’s safety management systems, emergency and security procedures, organizational structure, training protocols and operating procedures. Certificates of registration are issued by IBAC to FBOs that have successfully demonstrated conformity to the industry’s best practice standards through completion of a Third Party external audit by the IBAC accredited auditor.

of a bilateral civil aviation agreement (BASA) will support worldwide trade in aircraft and related products. It should reduce costs incurred through the previous need for duplication of evaluation and certification activities for aeronautical products by the civil aviation authorities, while also promoting cooperation between the EU and China towards a high level of civil aviation safety and environmental compatibility. The signing of the horizontal aviation agreement marks China’s recognition of the principle of EU designation, meaning that any EU airline

will be able to fly to China from any EU Member State with a bilateral air services agreement with China under which unused traffic rights are available. This differs from before where only airlines owned and controlled by a given Member State or its nationals could fly between that Member State and China. These two agreements form a part of EU President Jean-Claude Juncker’s EU Commission Aviation Strategy for Europe. Commenting on the agreements, Juncker said: “In an increasingly unsettled world, Europe’s partnership with China is more important than ever be-

OTHER NEWS

fore. The EU firmly believes that nations working together makes the world a stronger, safer and more prosperous place for all. Today we took a first big step in this direction by signing two aviation agreements with China that will create jobs, boost growth and bring our continents and peoples closer together. Today's agreements show the potential of our partnership and we should continue on this path of cooperation. For it will always be in unity that we find strength."

INDUSTRY PEOPLE



Sally Franks

- Air Navigation Solutions (ANS), a U.K. air traffic management provider, has appointed **Sally Franks** as its General Manager at Gatwick Airport. Sally has 20 years of industry experience in the air traffic management

(ATM) industry, and her role at ANS will include leading the team of air traffic controllers and service assistants and overseeing the delivery of air traffic services at London Gatwick Airport. She was previously with GAL Air Navigation Services, based in Abu Dhabi, and was General Manager of its Abu Dhabi Airports operations for three years.



Karim Grinate

- Innovative aircraft and engines leasing, trading and part-out specialist APOC Aviation, has appointed **Karim Grinate** as new sales manager. Alongside his world-wide sales responsibilities, Grinate will focus on establishing

world-class status for APOC's AOG department in tandem with its enhanced stock inventory of Boeing and Airbus spare parts. Headquartered in The Netherlands, APOC Aviation's expanding global footprint includes three regional sales offices in Colombia, Lithuania and Miami. It will be Grinate's role to strengthen ties with existing customers and build new business opportunities for APOC's aircraft parts division. Previous experience includes senior positions with Qatar Airways Cargo, Oman Air Cargo and Air France – KLM Cargo. This valuable experience and knowledge of the cargo process will spearhead APOC's parts distribution improvements.



Recommended Events



Managing Technical Aspects of a Leased Asset & Maintenance Reserves Training Seminar

June 11-12, 2019 – Novotel Barcelona City Hotel, Barcelona, Spain

Click here for more aviation events

rience and knowledge of the cargo process will spearhead APOC's parts distribution improvements.

- The worlds of Formula 1 and commercial airlines are mourning the sad passing of **Niki Lauda**. His family announced on May 21, that he had "passed away peacefully" on Monday, May 20. He was 70. Lauda was F1 World Champion three time, in 1975 and 1977 while driving for Ferrari, and again in 1984 while driving for McLaren. His achievement in 1977 was even more remarkable as this followed a horrific accident in the 1976 German Grand prix where he suffered extensive burns and life-threatening damage to his lungs but returned to full-time racing just 40 days after the incident. On his retirement from F1 in 1985, Lauda turned his full-time attention to the management of Austrian-headquartered Lauda Air, the airline he founded in 1979. Having later sold the airline to Austrian Airlines, in 2003 Lauda then founded his second Airline, Niki, which then merged with Air Berlin in 2011. In 2016 he acquired the Austrian carrier Amira Air, renaming it Laudamotion, which then went on to acquire Niki in January 2018 after Air Berlin went bankrupt. Having taken an initial 24.9% stake in Laudamotion in March 2018, Ryanair increased its holding to 75% in August that year, before completing it's 100% buyout of the carrier in January this year.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-200	Castlelake	CFM56-5B6/3	3560	2008	Now	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A319-200	Castlelake	CFM56-5B6/3	3533	2008	Now	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	ORIX Aviation	V2527-A5	3807	2007	Q1/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/3	5213	2012	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	Castlelake	V2533-A5	1648	2001	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-232	DVB Bank	V2527-A5	2156	2004	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-232	DVB Bank	V2527-A5	2395	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / 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	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B757-200PCF	Wahoo Aviation	RB211-535E4B	22210	1984	Now	Sale	Tim Corley	tcorley@wahooaviation.com	+1 (360)870-9172
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
(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
Dash 8 Q400	DVB Bank	PW150A	4160	2007	Now	Sale	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
D0328 Jet	Regional One	PW306B	3185	2001	Jul 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581

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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-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Boivar	mboivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-10E5A1	Now - Lease	DASI	Ed Blyskal	ed.blyskal@dasi.com	+1 305-525-7308
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5B1	Now - Lease				
(1) CFM34-8C5A1	Jun 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF& Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(2) CFM56-5B4/3	Soon - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24/3	Soon - Sale / Lease				
(1) CFM56-3B1	Soon - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837



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Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B20	Now - fresh from OH	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B26	Now - fresh from OH				
(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	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-115B	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1B28	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1A33	Soon - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123B/E	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(2) 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 Kryns	rkryns@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2530-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.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) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-5B Kit, PN 642K9001-211	Q4/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
Neutral CFM56-7B QEC Kit	Q3/2019 - Sale				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(1) GTCP131-9B	Now - Sale/Lease/Exchange	LongReach Aviation	Melanie Wood	info@longreach.com	+1-305-271-6650
(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					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Wernerero.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@wernerero.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