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Weekly Aviation Headline News

WORLD NEWS

Air Mauritius to inaugurate Seychelles services

Air Mauritius will be starting operations to Seychelles as from 02 July 2019. The flights will be operated twice weekly by the Airbus A319, offering 16 Business class and 108 Economy class seats. CEO Somas Appavou stated "This new destination will reinforce our regional service and provide enhanced connectivity onto our global network. Our two countries are world class tourist destinations but as islands we also share similar challenges like the size of our home markets and our geographical remoteness. Bringing our islands closer through better air connectivity is key to overcoming such challenges."

SAS divests shareholding in Air Greenland

SAS has divested its 37.5% ownership in Air Greenland A/S to the Government of Greenland. The transaction is a result of several years of discussions and negotiations, ending an era of ownership which dates back over 50 years. Under the agreement, the Government of Greenland will pay millions in cash for SAS' 37.5% shareholding in the Greenland based airline group.

Beirut Airport installs new parking guidance system

INDECT Electronics has announced the installation of their UPSOLUT parking guidance system at Beirut-Rafic Hariri International Airport in Lebanon. 142 camera sensors, monitoring 640 parking spaces, have been installed at this busy commercial hub located 9 km from the centre of Beirut in Lebanon. Beirut Airport is the 16th airport to choose the solution.

CAE works with over 300 airlines and trains more than 135,000 pilots annually.

Photo: CAE

Pilot shortage looms

Calls to boost investment in training

For some time now, the airline industry globally has been trying to tackle the problem of the looming pilot shortages globally. The aviation industry is now calling for much greater investment in pilot training.

CAE for instance have said in response to increased pilot training demand, it is expanding its training capacity for airlines in the Americas - "CAE has steadily increased its commercial aviation training footprint in the Americas to support our airline partners' growing pilot training needs," said Nick Leontidis, CAE's Group President, Civil Aviation Training Solutions. "We will be expanding our training network in the Americas with the addition of more than 15 simulators for a total of over 50 full flight simulators in the region by the end of 2019, that's a 35% training capacity growth in three years."

> "We will be expanding our training network in the Americas with the addition of more simulators..."
>
> *Nick Leontidis, CAE's Group President, Civil Aviation Training Solutions*

Europe holds 34% of the global air traffic and according to Boeing projections it will grow by 113% by 2037. Correspondingly the current fleet size of 4,900 aircraft is to reach 8,800 with the biggest increase in small-medium size airplanes. This means that by that time Europe will need 146,000 new pilots. Avia Solutions Group announced plans to expand its full flight simulators' fleet with six additional units in Europe and Asia, the company said preliminary investments may reach 60m Euros.

Several other airlines have recently announced new training partnerships to raise the numbers of pilots

Continued on page 3

Engine Lease Finance

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...continued from page 1

coming through. In January, Indian LCC IndiGo, said it had chosen UK-based Skyborne Airline Academy to train up to 100 pilots a year over the next five years, as part of the IndiGo Cadet Pilot Programme.

Lee Woodward, CEO at Skyborne feels that forging partnerships with pilot training academies is a fantastic way for airlines to secure the next generation of industry professionals and leads to an increased number of applications.

"Cadet pilots are taught to fly the way the airline requires them to and tend to go on to feel a true sense of loyalty towards the airline they were recruited and trained for," he says.

Global changes towards greater work-life balance and the extension in the retirement age to 65 and beyond has also served to attract women who are changing careers into the profession. At a growing number of training academies, they believe that gender should not be a barrier to entry for pilot training and it is crucial that more initiatives are introduced to encourage a growing number of young women to pursue a career in aviation. With a pending global shortage in airline pilots, stimulating interest from women to enter the career is an essential way forward.

AIRCRAFT & ENGINE NEWS

BOC Aviation takes delivery of 350th Airbus aircraft

BOC Aviation has taken delivery of its 350th Airbus aircraft. The aircraft is an Airbus A320neo and is leased to TAP Portugal. The aircraft is powered by CFM Leap engines. "We congratulate BOC Aviation on its 350th Airbus aircraft. Great to celebrate this achievement with the best-selling A320neo aircraft," said Christian Scherer, Airbus Chief Commercial Officer. "Being one of the most important lessors in the world and one of Airbus' largest customers, we are all very proud to have contributed to BOC Aviation's success and look forward to achieving new important milestones together."

NAC delivers one new ATR 72-600 to Far Eastern Air Transport Corporation

Nordic Aviation Capital (NAC) has delivered one ATR 72-600, MSN 1450, to Far Eastern Air Transport Corporation (FAT) on lease. Far Eastern Air Transport (FAT) is a privately-owned airline providing scheduled international passenger and cargo services from its Taipei base to destinations in North-East Asia, South-East Asia, China and Taiwan, as well as scheduled domestic services linking Taipei and Kaohsiung with regional cities.

Delta receives first highly efficient A330neo

Delta's new A330-900 takes off *Photo: Airbus*

Delta Air Lines has taken delivery of its first A330-900, one of 35 A330neos the Atlanta, Georgia-based airline has on order. With new fuel-efficient engines, aerodynamic improvements, and the advanced Airspace by Airbus cabin, the A330-900 will give Delta a premier long-haul, wide-body aircraft with exceptionally low operating costs. Delta was the launch customer for the A330-900, ordering 25 in November 2014 and an additional ten last year. With the addition of the A330-900, Delta now operates both of Airbus' newest wide-body models. It has 13 A350-900s in its fleet with another 12 on order. The American carrier operates more than 265 Airbus aircraft including A321s and A220s, while its order backlog with Airbus exceeds 270, including 100 A321neos. An environmental milestone was set as a Delta crew ferried the new A330-900 back to the company's Atlanta base using a jet fuel blended from conventional sources and non-petroleum synthetic fuel. Delta will initially base its A330-900s at Seattle-Tacoma International Airport, where it will operate the aircraft on flights to Shanghai, Seoul and Tokyo Narita. Delta will configure its A330-900s for 281 passengers, including 29 in business-class suites, 28 in premium economy, 56 in extra-legroom economy seats, and 168 in standard economy. The aircraft will feature Delta's new internally developed in-flight entertainment system.

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BOC Aviation places six aircraft with Vistara

BOC Aviation has placed four Boeing 737-800 NG aircraft with Vistara. The aircraft include two from the managed fleet – and two Airbus A320neo aircraft with Indian carrier Vistara. All Boeing 737-800 NG aircraft are scheduled for delivery in May 2019. The two Airbus A320neo aircraft will be delivered in the second half of 2019 and will be powered by CFM Leap 1A engines. TATA SIA Airlines, known by the brand name Vistara, is a joint venture between Tata Sons Limited and Singapore Airlines Limited (SIA), with Tata Sons holding the majority stake of 51% in the company and SIA holding the remaining 49%.

Vistara

Photo: AirTeamImages

Air New Zealand invests in new fuel-efficient Boeing 787-10 Dreamliners

Boeing 787-10 Dreamliner in Air New Zealand livery

Photo: Air New Zealand

Air New Zealand has decided to invest in new fuel-efficient aircraft with the purchase of eight Boeing 787-10 Dreamliner aircraft powered by GE Aviation's GEnx-1B engines. At today's list prices, the agreement represents a value of US $2.7 billion. As is usual with such orders, Air New Zealand has negotiated a significant discount on current list prices and the parties have agreed not to disclose the actual purchase price. The first of these highly fuel-efficient aircraft will join the Air New Zealand fleet in 2022 and together they will have the potential to save 190,000 tons of carbon per year. Air New Zealand currently operates a fleet of 13 787-9 Dreamliners which Chief Executive Christopher Luxon says have proved to be the perfect aircraft for the airline's Pacific Rim focus.

AviaAM Leasing sells A321-200 with lease attached

AviaAM Leasing has sold one Airbus 321-200 to Aergo Capital with lease attached to SmartLynx Airlines. The aircraft was acquired earlier this year and, after comprehensive technical preparation, refurbishment and repainting, has been leased to a Latvian ACMI operator. Currently, the aircraft is being operated by the lessee under an ACMI contract with German leisure airline – Condor.

Condor A321-200

Photo: AviaAM Leasing

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MRO & PRODUCTION NEWS

Bii.aero teams up with Rostrom Leasing for CFM56 -3 engine parts

Specialist aircraft component support provider Bii.aero (Bii) has teamed up with Dublin-based aircraft and engine leasing firm Rostrum Leasing to market a suite of engine piece parts resulting from the phased tear-down program of selected B737-300 Classics and CFM56 spare engines formerly operated by Southwest Airlines. Bii has all available piece parts to serve the used materials market at its warehouse near LGW for sales and distribution. To strengthen the expertise within the Bii team, the company has recently appointed James Burley to head up the engines' division. Burley has extensive experience in all aspects of commercial aircraft and engine leasing and technical management following his previous appointments with Avtrade and recently Aircraft Leasing and Management Ltd.

Airbus Helicopters and Hungarian Government to establish manufacturing site in Gyula

Airbus Helicopters and the Hungarian Government have selected the town of Gyula in the Békés County as the site for a new aerospace enterprise in Hungary. Gyula is located in the country's eastern part. The new installation will be built up from scratch and will be the core of an emerging Hungarian aeronautics cluster. At the end of 2018, Airbus Helicopters and Hungary had signed a Memorandum of Agreement to create an industrial cooperation for long-term aviation projects. The purpose of the plant is to manufacture high-precision metallic elementary parts for the dynamic systems of helicopters for the complete Airbus product range. Production is expected to start in 2021. The Hungarian Government plans to establish capabilities for metallic surface treatment and a Hungarian Aerospace Academy to support the new Airbus site by training the future workforce. The new entity will be a joint venture between Airbus and a Hungarian governmental partner. Airbus will hold the majority of the shares and will operate the plant.

Collins Aerospace celebrates 45-year relationship with Airbus with major nacelle delivery milestones

Collins Aerospace Systems celebrated its 45-year relationship with Airbus by delivering the 1,000th nacelle for the A320neo program, delivering the 9,000th V2500 nacelle, and continuing to support the ramp-up of the A220 nacelle program. The relationship with Airbus dates back to the A300, the first Airbus aircraft. The milestones achieved are due to the strong collaboration and hard work from both companies. In support of the Airbus A320neo program, Collins has invested hundreds of millions of dollars to expand manufacturing capacity at six global sites.

Collins Aerospace's innovative nacelle system for the Airbus A320neo is performing with 99.99% percent dispatch reliability. There are currently more than 750 Collins nacelles operating on A320neo aircraft with 32 airlines.

GDC engineering and Joramco sign LoI to form strategic partnership

GDC Engineering (GDC), an Aircraft Engineering and Certification services provider and Joramco, the Amman-based MRO, have signed a Letter of Intent (LOI). Under the LOI, GDC and Joramco will work to form a strategic, long-term partnership to pursue aircraft major and minor modifications and repair opportunities for commercial aircraft throughout the region, under GDC EASA Design Organization Approval. GDC will provide engineering and Part 21J certification services while Joramco will provide engineering, labor, equipment and facilities required to perform modifications and repair services in accordance with EASA & FAA regulations at its facility in Amman-Jordan. The ever increasing market provides an opportunity for Joramco to expand its already comprehensive MRO capabilities to aircraft beyond their current customer base while also allowing GDC to expand its offerings for modification services, including cabin refur-

'Turn the Tide on Plastic' still carrying Hi Fly's sustainability message to global audience

Hi Fly's Airbus A330 "Turn the Tide on Plastic" *Photo: George Aldrich, Birmingham*

Hi Fly's 'Turn the Tide on Plastic' Airbus A330 continues to circumnavigate the globe on its mission to raise public awareness of plastic pollution in the world's oceans. With close to 20 months now decorated in the livery of the campaign with the 'Turn the Tide' message boldly displayed on its fuselage, the aircraft has already travelled to all five continents, taken more than 600 flights and landed in over 60 destinations worldwide. In Europe, the now famous airliner has visited the U.K., France, Belgium, Portugal, Spain, Germany, Italy, Bulgaria and Turkey. While in Africa, Tunisia, Morocco, Nigeria, Ruanda, Madagascar, Guinea, the Congo, Senegal, Kenya, and Mauritius have all welcomed Hi Fly's themed Airbus A330, as have some of the world's most spectacular destinations such as Reunion Island, the Dominican Republic, French Polynesia, Cuba and Jamaica. On the American continents: the USA, Canada and Brazil, Argentina, Panama, Venezuela and Guyana have also received a visit from the plane, while in Asia, travelers in India, China, Thailand, Tajikistan, Afghanistan and Russia, may well have seen the painted jet as it carried its message on sustainability to the four corners of the earth. The Middle Eastern nations of Jordan, Saudi Arabia and Iraq have also been visited, but the region that has seen the inspiring jetliner the most was Australasia, where it flew between Australia and New Zealand. The Hi Fly Airbus was decorated in its 'Turn the Tide on Plastic' livery after its principal sustainability partner, the Mirpuri Foundation, also became the Principal Sustainability partner of the Volvo Ocean Race and founding partner of Team Turn The Tide on Plastic, in the 2017-18 edition of the race. Hi Fly has announced its plan to be the first airline to be completely 'single-use plastic-free' by the end of this year

MRO & PRODUCTION NEWS

bishments and reconfigurations, along with connectivity and IFE upgrades, including GDC's new smart plane offering.

StandardAero introduces PT6A-68-series engine test cell at Summerside facility

StandardAero recently completed the correlation process for its newly upgraded Pratt & Whitney Canada PT6A-68 test cell at its Summerside, PEI facility in Canada. The company is now able to complete pass-off testing for PT6A-68-series engines overhauled at the Summerside facility, for customers in Canada, the United States and elsewhere. StandardAero has provided full service support for the PT6A-68 since 2013, previously from its Winnipeg, MB location. Work on the engine was transferred to the Summerside facility as part of the company's Center of Excellence (COE) activity, announced in May 2018. The facility, located in Slemon Park adjacent to Summerside Airport, has recently expanded its shop floor area by 30% to 130,000 sq. ft., while expanding its workforce with the hiring of 80 additional employees. The 1,250 to 1,600 shp class PT6A-68 series powers a number of high-performance training aircraft.

RUAG optimizes maintenance visit for Bombardier Challenger 850 aircraft

Bombardier Challenger 850 from VistaJet *Photo: RUAG*

RUAG MRO International has refreshed a Bombardier Challenger 850 belonging to VistaJet with a variety of aircraft services during a scheduled maintenance visit. Project management and services included aircraft maintenance, repair and overhaul (MRO), component MRO, aircraft painting, and the integration of both an avionics ADS-B out upgrade as well as a full cabin refurbishment. This is the first in a series of Challenger 850 projects which will be completed on behalf of VistaJet. The customer chose to optimize a scheduled MRO event on their Bombardier Challenger 850 to save on both time and costs. The aircraft, part of VistaJets' global business jet fleet of over 70 aircraft, required regular maintenance services, landing gear MRO, a full exterior repainting to feature the VistaJet livery, an ADS-B compliance upgrade and full cabin refurbishment. Managing the entire project, RUAG applied its MRO, aircraft painting and engineering expertise to reliably fulfill customer expectations. Currently, RUAG MRO International is supporting the second of the series of Challenger 850s, on behalf of VistaJet.

S7 Technics provides newly painted livery for Air Astana Embraer E190

S7 Technics aircraft painting centre completes first work on an Embraer aircraft *Photo: S7 Technics*

S7 Technics' Mineralnye Vody-based aircraft painting center has completed its first project on an Embraer aircraft. Air Astana dispatched one of its Embraer E190s to Mineralnye Vody for a planned refreshing of its paint under a long-term contract with S7 Technics. The aircraft is the fifth in Air Astana's fleet to have been painted by S7 Technics. To work on its first-ever Embraer E190, S7 Technics' painting center made extensive preparations, which included pre-ordering all painting materials, sealers and removers. "For us, any order is individual and there are certain peculiarities in painting an Embraer aircraft. For instance, after completing the painting work it is necessary to apply a polyurethane coat on the wing and stabilizers to protect the paint during operations. There are many such details, and our team was always in contact with Air Astana, to cater for all details of the technological process and complete everything on time," says Denis Sarbin, S7 Technics' sales manager. The ongoing cooperation in terms of aircraft painting between the Kazakh carrier and Russia's leading MRO services provider started in the spring of 2016. Since then, besides the E190, S7 Technics' painting team has redelivered a Boeing 757-200, an Airbus A320 and two Airbus A321s to Air Astana. By the end of 2019, the Mineralnye Vody shop will have painted several other aircraft for the airline.

FINANCIAL NEWS

Safran to implement €2.3 billion ordinary share buyback program

Safran intents to implement a €2.3 billion ordinary share buyback program to run over the two years following completion of the tender offer for Zodiac Aerospace shares. To date, Safran already contributed 14.5 million shares to its program for a total of €1.6 billion euros. On May 27, Safran has entered into an agreement with an investment service provider for a follow-on repurchase tranche. According to this agreement, Safran will acquire up to €150 million worth of ordinary shares no later than June 28, 2019. The average price per share will be determined based on the mean volume-weighted market price observed during the entire duration of the agreement. The unit price may not exceed the maximum of €155 per share set by the May 23, 2019 shareholders' meeting. (€1.00 = US$1.12 at time of publication.)

Fraport increases stake in Lima Airport to 80%

Fraport has increased its stake in Lima Airport Partners S.R.L. (LAP) – the operator consortium of Jorge Chavez International Airport Lima – to 80%. Fraport took over 10% from AC Capitales' Infrastructure Fund, which held the stake for over 10 years. The acquisition raises Fraport's majority ownership in LAP from 70.01% to 80.01%. The share deal strengthens Fraport's position as LAP's main shareholder and airport operator during an important expansion and growth phase for Lima Airport (LIM). The planned expansion program comprises a second runway, a new passenger terminal, as well as related facilities and infrastructure. LAP's concession to operate and manage Lima Airport began in 2001, when Lima Airport served about 4.1 million passengers. In 2018, Lima Airport welcomed 22.1 million passengers, up 7.3% year-on-year. Serving as a popular hub in South America, Lima Airport has been honored as the "Skytrax Best Airport in South America" a total of nine times (including those for 2019.)

ATSG's bank credit facility expands to support fleet growth

Air Transport Services Group has obtained lender commitments for a one-year extension through May 2024 of its secured credit facility, and an expansion of the facility's revolver portion. The amendment to ATSG's agreement with a consortium of banks, led by SunTrust, increases the revolving credit portion of the facility by US$100 million, to US$645 million. ATSG is exercising its access to additional credit, with lender consent, through an accordion feature of the facility. The exercise reduces the additional credit available

Elix Aviation Capital delivers one ATR 42-500 to Air Corsica

Air Corsica flying an ATR 72-500 *Photo: AirTeamImages*

Elix Aviation Capital has delivered one ATR 42-500 MSN 637, on lease to Air Corsica. This new customer for Elix expands its turboprop leasing footprint in Europe and adds the first ATR 42-500 into the Air Corsica fleet. Air Corsica operates over 20,000 flights annually across 33 routes with a fleet of 12 aircraft including the Airbus A320, ATR72 and now ATR42 serving four Corsican airports along with mainland destinations in France, Belgium and the United Kingdom.

Air Partner's freight division reports second year of record results

Air Partner's freight division delivers second year of record results *Photo: Air Partner*

The Freight division at global aviation services group Air Partner has delivered a second year of record results. As announced in Air Partner's recent full-year results for the year ended January 31, 2019, freight gross profit for the year was up 45.3% to £4.9 million, accounting for 13.8% of the group's overall gross profit. Over the course of the last financial year, the group invested in people across its regional offices, expanded its team in Turkey and established a new team in the U.S., in addition to winning sizeable mandates from a variety of new and existing clients. Cargo work has been carried out across a range of sectors, including automotive, aid, aerospace and energy, with customer requirements ranging from the transportation of a small box via Air Partner's growing on-board courier service to chartering the largest aircraft in the world, the An-225. The introduction of a freight offering in Fort Lauderdale has proven particularly successful, helping to push freight gross profit and customer numbers to their highest ever level. The team there had a very busy year working on numerous projects, including the co-ordination of 30 charters carrying humanitarian aid to Guam and Saipan during the typhoon season. Outside of the U.S., the Turkey office arranged the transportation of 500 tons of construction materials to West Africa and the U.K. benefited from its work supporting airlines in their aircraft on ground (AOG) recovery, as well as government flying. The German office also continued to see high levels of activity from the automotive sector and delivered its 11th consecutive year of growth. Furthermore, Air Partner opened two new offices in Singapore and Houston in early 2019, both of which offer freight services, thereby broadening the division's geographic reach even further. (£1.00 = US$1.27 at time of publication.)

FINANCIAL NEWS

under the accordion feature to US$300 million from US$400 million.

SpiceJet posts full-year 2019 loss

SpiceJet reported a profit of INR56.3 crore for the traditionally weak quarter ended March 31, 2019 as against INR46.2 crore in the same quarter last year. In comparison to Q3 FY19, the airline managed to generate higher profits despite challenges on account of seasonality and, more importantly, grounding of its 13 Boeing 737 MAX aircraft. The reported quarter profit does not include any form of reimbursements or compensation on the grounded aircraft and for which the Company continues to work with the manufacturer. The airline reported a net loss of 316.1 crore in FY 2019. Operating revenues were at 2,531.3 crore for the reported quarter and 9113.2 crore for the fiscal 2019. On an EBITDA basis, profit is 122.8 crore for the reported quarter and 48.4 crore for the fiscal 2019. On an EBITDAR basis, the profit is 523.3 crore for the reported quarter and 1,345.1 crore for the fiscal 2019. The year under review posed multiple unprecedented challenges, such as the world-wide grounding of the Boeing 737 MAX . This could have led to huge cancellations and passenger disruptions, but the Company swiftly moved by mounting additional frequencies, inducting planes on wet lease and rationalizing and optimizing the use of its existing fleet. Further, this year saw a 25% increase in aviation turbine fuel prices and a 9% depreciation of the Indian rupee that resulted in cost escalations of 695 crore and 285 crore respectively. (1 crore (10m INR) = US$143,500 at time of publication)

Columbia 's Avianca Holdings management overhaul launched by United Airlines

With major shareholder Germán Efromovich's holding company BRW Aviation defaulting on a US$456 million loan provided by United Airlines, the American carrier has launched a management shake-up that will see the removal of Efromovich from cash-strapped airline Avianca Holdings (Avianca). United is now proposing a three-way joint business deal with Panama's Copa and Avianca. As part of United Continental Holdings, United Airlines is looking to strengthen its foothold in South America. United Airlines' loan was against Efromovich's 51.5% stake in Avianca, though as a result of an existing contract with United Airlines' pilots which restricts the carrier from taking a majority stake in any other airline, United Airlines will cede voting rights to Kingsland Holdings, which currently holds a 15.64% stake and is the second-largest stakeholder. The American carrier is also prepared to

SAS pilot strike hits second-quarter results hard

Photo: SAS

The six-day pilots' strike which ended May 2, is estimated to have cost Scandinavian Airlines 650 million kroner (US$68 million) and contributed heavily to the carrier's 1.2 billion kroner (US$125 million) loss for the second quarter of its financial year. The strike, which began April 26, was the consequence of a breakdown in negotiations between SAS and SAS Pilot Group, which represented 95% of the carrier's pilots in Sweden, Denmark and Norway. In total, over 4,000 flights were canceled, affecting more than 370,000 passengers. To summarize the second-quarter results (2018 figures in brackets): Revenue: SEK 10,187m (9,916m), Income before tax (EBT): SEK -1,216m (-488m), Income before tax and items affecting comparability: SEK -1,211m (-309m), Net income for the period: SEK -933m (-349m), Earnings per common share SEK -2.44 (-1.0), Income before tax negatively affected by strike SEK -430m. (US$1.00 = SEK9.58 at time of publication.)

French Ministry of Armed Forces brings development of future Joint Light Helicopter forward

H160M

Photo: Airbus/E.Raz

The French Minister of the Armed Forces, Florence Parly, has announced that the launch of the Joint Light Helicopter (Hélicoptère Interarmées Léger; HIL) program has been brought forward to 2021. The HIL program, for which the Airbus Helicopters' H160 was selected in 2017, was initially scheduled for launch in 2022 by the current military budget law. Launching the program earlier will enable delivery of the first H160Ms to the French Armed Forces to be advanced to 2026. During a visit to the Airbus Helicopters headquarters, the Minister also revealed the full-scale mock up of the H160M that will be presented on the Ministry of the Armed Forces stand at the next Paris Air Show. The helicopter was also given its official name and will be designated as "Guépard" ("Cheetah") by the French Armed Forces. The H160 was designed to be a modular helicopter, enabling its military version, with a single platform, to perform missions ranging from commando infiltration to air intercept, fire support, and anti-ship warfare in order to meet the needs of the army, the navy and the air force through the HIL program.

FINANCIAL NEWS

lend a further US$150 million. Kingsland Holdings is under the control of Robert Kriete who had been involved in a very lengthy legal battle with Efromovich over an optimum strategy for the struggling carrier. According to Reuters, another Efromovich carrier, Avianca Brasil, filed for bankruptcy protection in December and its operations were suspended on Friday by Brazil's civil aviation regulator ANAC. Avianca is the second-largest airline holding in Latin America by revenue and fleet size after Santiago, Chile-based LATAM Airlines Group. It currently has a fleet of 173 aircraft and over 19,000 staff, serving more than 100 destinations in America and Europe.

MILITARY AND DEFENCE

Honeywell signs maintenance agreement with AMMROC

Honeywell has signed a new maintenance agreement with the UAE's Advanced Military Maintenance Repair Overhaul Center – AMMROC. The contract will see the firms work together to enhance the repair and maintenance options available to AMMROC's key customer the UAE Air Force and its fleet of more than 100 aircraft. This new, long-term agreement is designed to ensure AMMROC and Honeywell provide a high standard of maintenance, overhaul and repair services to the UAE Air Force. It covers the upkeep of Honeywell components used on board the various aircraft types within the UAE Air Force's extensive fleet. Abu Dhabi-based AMMROC was launched in 2010 and is a joint venture of Emirates Defence Industries Company (EDIC), Lockheed Martin Corporation and Sikorsky Aerospace Services. The new collaboration with Honeywell will extend the working relationship between the companies for many years to come.

INFORMATION TECHNOLOGY

Panasonic Avionics Corporation (Panasonic) has opened its first Innovation Studio in Pleasanton, California. Breaking ground as the first of five planned locations worldwide, Panasonic's new Innovation Studio in Pleasanton will serve as a hub for innovation, ideation and solution-building. It is designed as a space where airlines and partners will gather and co-create the future of travel experience. David Bartlett, Chief Technology Officer of Panasonic Avionics Corporation, says: "Innovation is at the center of everything Panasonic Avionics does. Our new facility in Pleasanton will play a major role in fostering our collaboration ethos and is the first of five such hubs that will enhance and enrich the future inflight travel experience for passengers around

Airbus and Spanish Air Force to develop drone and augmented reality inspections for military aircraft

Airbus drone test flight *Photo: Airbus*

The Spanish Air Force has become the first air force worldwide to support the development of Airbus' drone and augmented reality-based maintenance inspection services, with the aim of drastically reducing maintenance inspections for large military aircraft and increasing overall fleet availability. This digital innovation technology will initially be trialled on Spanish Air Force A400M aircraft based at Zaragoza Air Base (31st Wing), with options to extend the technology to other aircraft, including the C295 and the CN235. General José Luis Pardo Jario, Head of the Spanish Chief of the Air Staff office, said: "This technology has the potential to make a major contribution to maintenance tasks for our fleet. Not only is it more time- and cost-efficient, above all it allows the upskilling of aircraft maintenance personnel, in accordance with the new digital era we all need to contribute towards in order to reap its benefits." The technology relies on drones equipped with sensors and high-definition cameras to scan, in a matter of hours and not days, the exterior of an aircraft undergoing a maintenance inspection. A secured connection allows data and information generated to be displayed on tablets and augmented reality glasses, allowing staff to quickly identify and apply maintenance procedures and corrective actions while ensuring all inspection and maintenance procedures are formally and fully recorded on the maintenance log. Not only does this technology reduce the maintenance inspection time, it supports the early detection of defects and helps guarantee quality and post-maintenance airworthiness.

PAS takes off with AMOS *Photo: Swiss-AS*

Swiss-AS and **Petroleum Air Services** have signed agreements regarding the purchase and implementation of AMOS. PAS was searching the market for a fully integrated turnkey solution that provides the option to adapt to new requirements without changes to the source code and reached the conclusion that AMOS provided the best-fit solution for their requirements. AMOS will be implemented without any customer specific changes and PAS can rely on a proven software that reflects industry-best-practices and allows managing both their aircraft and helicopters within one single system. When selecting AMOS, customers also obtain a comprehensive maintenance agreement that guarantees two major releases per year. This assurance proved to be one key factor in convincing PAS that AMOS was indeed the future-proof solution it was looking for.

INFORMATION TECHNOLOGY

the globe, helping travel to become the fourth place." The Innovation Studio is located close to Silicon Valley which is recognized as a global center for tech innovation. The facility will act as a hub from which Panasonic will work with airlines to investigate, illuminate and implement new ways of transforming the passenger experience in a socially collaborative environment. Panasonic's Innovation Studios across the globe will all be located in close proximity to major destinations, leading universities and centers with an established innovation and start-up culture. Each studio will be a place for companies to leverage Panasonic's skilled workforce to prototype, showcase and evaluate product concepts, digital solutions and user experience paradigms.

OTHER NEWS

Deutsche Telekom, the integrated telecommunications company and **DFS**, the German air navigation service provider, have announced the founding of their joint venture Droniq on Wednesday, May 29. Droniq provides a technical platform to track drones, enabling drone flights beyond the visual line of sight of the pilot in the future. DFS and Deutsche Telekom have developed a technology that uses the mobile communications' network to track unmanned aircraft systems (UAS), commonly known as drones. This puts in place one of the central preconditions to be able to safely operate drones across larger distances, and not just in close vicinity to the pilot. Delivering this precondition is a necessary step for the economic operation of unmanned aircraft systems. "Our technology finally makes it possible to fully exploit the potential offered by drones operated in a professional setting. With Droniq, we have combined the aviation expertise of DFS with Deutsche Telekom's competence in mobile communications," said Tim Höttges, Chief Executive Officer (CEO) of Deutsche Telekom AG. The core of the product offering is a UAS Traffic Management System (UTM). This system processes the position data of drones and displays them together with the tracking data of manned aircraft. In this way, a complete air situation display is created. The UTM system also offers additional functions for the safe operation of drones in German airspace, including registration, mission planning and an automated process for obtaining any permissions required for a particular mission. "Droniq offers an entry into the commercial operation of unmanned aircraft systems, especially for drone flights beyond the visual line of sight. That is why we are introducing the first operational UTM system in Germany on the market to integrate drones safely and fairly into airspace," said Klaus-Dieter Scheurle, CEO of DFS.

Photo: Munich Airport Terminal 2

The remarkable growth in **Munich Airport's** network of intercontinental destinations continues. The segment posted strong gains to start the 2019 operating year, with a 10.5% increase in total passengers from January to April 2019. In the summer of 2019, 22 airlines will offer 342 departures per week to 41 intercontinental destinations in 22 countries. Several new routes will be launched in June. After the successful rollout of its new service to Charlotte, North Carolina at the end of March, **American Airlines** will provide a connection between Munich and the metropolitan area of Dallas / Fort Worth, Texas, starting on June 7, 2019. With the famed Dallas Arts District and more restaurants per capita than New York City, it's a dream destination for culture lovers. Chicago – the third-largest city in the USA – will be served by three daily flights from the beginning of June, with two daily departures by **Lufthansa** and one by **United Airlines**. In total, 133 flights will depart from Munich for the USA every week this summer, serving 13 different destinations. Both Lufthansa and **Thai Airways** will be operating daily flights to the Thai capital of Bangkok as of June 3, 2019. Also starting in June, passengers can choose between two daily departures to the megacity of Singapore, either with Lufthansa or **Singapore Airlines**. With Lufthansa now flying every day to Osaka and increasing the frequency of its Seoul-Incheon route to a daily departure, Munich is also experiencing significant growth in services to and from Asia. In addition, Saudia is adding new flights to Jeddah, and will depart from Munich for both Jeddah and Riyadh, the Saudi capital, three times per week.

Etihad at Moscow Domodedovo Airport (DME) *Photo: Konstantin Ventslavovich*

Etihad Airways will launch additional daily flights between **Abu Dhabi** and **Moscow Domodedovo Airport (DME)** starting October 27. According to the carrier, the increase in flight frequency comes from the popularity and success of regular Abu Dhabi – DME operations.
Etihad Airways and Moscow Domodedovo Airport have been cooperating since 2008. In this period the route's annual passenger traffic has doubled. In partnership with Etihad Airways, Moscow Domodedovo Airport has served more than one million passengers.

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Lufthansa Aviation Training Austria is expanding its training facility in Vienna in the field of pilot training, creating space for additional modern training devices used in the training of pilots. **Lufthansa Aviation Training (LAT)** gave the go-ahead at the beginning of the year for the expansion of the training site of Lufthansa Aviation Training Austria in Vienna, involving investments in the double-digit million euro range. The simulator center, in operation since 2006, is home to four full-flight simulators (FFSs) and two flat-panel trainers (FPTs) at present. The facility has attracted a large clientele in the field of pilot training due to the extensive demand for pilots. The cockpit crews of more than 20 airlines regularly undergo training in Vienna.

Air France and **KLM** have signed a new code-share agreement with **Atlantic Airways** for flights linking Paris and Amsterdam to Vágar airport in the Faroe Islands, via Copenhagen, Billund, Bergen, Edinburgh and Reykjavik. With this new partnership, effective July 1, 2019, Air France and KLM customers will be able to benefit from more travel opportunities between the Faroe Islands and Paris and Amsterdam with a single air ticket and check-in. In addition, they will be able to enjoy FlyingBlue benefits on all these flights. Moreover, from July 1, 2019, customers will benefit from the launch of a new non-stop route offered by Atlantic Airways using AF flight codes between Vágar airport in the Faroe Islands and Paris-Charles de Gaulle airport, with three flights weekly.

Photo: IATA

The **International Air Transport Association (IATA)** announced global passenger traffic results for April 2019 showing that demand (revenue passenger kilometers or RPKs) rose by 4.3% compared to April 2018. April capacity (available seat kilometers or ASKs) increased by 3.6%, and load factor climbed 0.6 percentage point to 82.8%, which was a record for the month of April, surpassing last year's record of 82.2%. Regionally, Africa, Europe and Latin America posted record load factors. Comparisons between the two months are distorted owing to the timing of the Easter holiday, which occurred on April 1 in 2018 but fell much later in the month in 2019. April international passenger demand rose 5.1% compared to April 2018. All regions recorded year-over-year traffic increases, led by airlines in Europe. Total capacity climbed 3.8%, and load factor climbed 1.1 percentage points to 82.5%. **European airlines**' April traffic increased 8.0% compared to the year-ago period, up from 4.9% annual growth in March. Capacity rose 6.6% and load factor surged 1.1 percentage points to 85.7%, highest among the regions. **Asia-Pacific carriers** posted a 2.9% traffic rise in April, up from 2% growth in March but well below the long-term average. Capacity climbed 3.7% and load factor dropped 0.6 percentage point to 80.8%. Asia-Pacific was the only region to experience a decline in load factor compared to the same month a year ago. **Middle East carriers** saw demand rise 2.9% in April, which was a recovery from a 3.0% decline in traffic in March. Capacity fell 1.6% and load factor soared 3.5 percentage points to 80.5%. **North American airlines** posted a 5.5% demand increase compared to April 2018, which was up from 3.2% year-over-year growth in March. Capacity climbed 3.2%, and load factor rose 1.8 percentage points to 82.2%. **Latin American airlines** experienced a 5.2% rise in April demand compared to the same month last year, slightly up on 4.9% growth in March. Capacity increased by 4.0% and load factor edged up 0.9 percentage point to 82.8%. **African airlines** had a 1.1% traffic increase in April, which was down from 1.6% growth in March and was the slowest regional growth since early 2015. Capacity climbed 0.1%, and load factor edged up 0.7 percentage point to 72.6%. Demand for domestic travel climbed 2.8% in April compared to April 2018, down from 4.1% growth in March year-over-year. The slowing trend is being driven primarily by developments in China and India. Capacity increased 3.2%, and load factor slid 0.3 percentage point to 83.2%.

The major provider of broadband connectivity products for aviation, **Gogo**, has announced its intention to create a contiguous U.S. and Canada air-to-ground (ATG) network which will be designed for use by business aviation aircraft, commercial regional jets and smaller mainline jets. It is anticipated the network will be operational for business and commercial aviation by 2021. Oakleigh Thorne, CEO of Gogo, commented that: "We expect to launch Gogo 5G at the same time as the terrestrial telecommunications companies are deploying the same generation of technology on the ground – a first in the in-flight connectivity industry. Gogo 5G is the next step in our technology evolution and is expected to deliver an unparalleled user experience, pairing high performance with low latency and network-wide redundancy." The 5G network will be built on Gogo's existing infrastructure of over 250 towers, using unlicensed spectrum in the 2.4GHz range, along with a proprietary modem and advanced beamforming technology. Gogo's 5G infrastructure will support all spectrum types (licensed, shared, unlicensed) and bands (mid, high, low), which will enable Gogo to take advantage of new advances in technology as and when they have been developed. In a similar way in which wireless carriers provide redundancy across their networks, Gogo will continue to employ its 3G and 4G networks throughout the continental U.S. and in Canada which can be used as backup to the 5G network when needed. Compared to satellite technologies, ground-based network technologies normally deliver certain operational advantages such as lower cost of operation and lower latency. Gogo will provide straightforward upgrade routes to 5G connectivity for existing Gogo air-to-ground customers.

Boeing has confirmed that once it takes an 80% stake in Brazil's **Embraer SA's** commercial jet division, the name Embraer is to be dropped completely and the company will be called **Boeing Brasil – Commercial**. This will see one of Brazil's

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most iconic company names disappear from commercial jet manufacturing, despite Embraer retaining a 20% stake in the most profitable arm of the current company. However, the name will still exist as Embraer will still continue to manufacture military and executive jets from the two wholly owned divisions that are excluded from the Boeing joint venture. Additionally, nothing has yet been decided with regard to a potential rebranding of the up to 150-seat jets that will be jointly manufactured. Boeing's move mirrors Airbus SE taking a major stake in and subsequently rebranding of the Bombardier Inc CSeries, now known as the Airbus A220. The Boeing move will see it strengthen its share of the duopoly created in the aerospace industry for the US$150 billion jet market between the French and American planemaking giants. The moves by Airbus and Boeing further strengthen their grip on the small-to-medium-size jet market through the acquisition of weaker competitors, leaving the threat to come from Russia's **Sukhoy** SSJ100 and Japan' **Mitsubishi** MRJ who are both making slow progress, and the largest potential competitor, China's **COMAC**. While the deal with Boeing has received Embraer shareholder approval, regulatory approval is still awaited.

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

INDUSTRY PEOPLE

• Macquarie Group has announced the appointment of **Kate Vetch** as the new Regional Head of Compliance for Macquarie Group in Europe, the Middle East and Africa (EMEA), subject to regulatory approvals. This will take effect from early September 2019. Vetch will join Macquarie as an Executive Director and will sit on the EMEA Management Committee alongside **Paul Plewman**, the EMEA region's new Chief Executive Officer. A qualified accountant by background, Vetch has spent 17 years working in Compliance, starting her career at JP Morgan in Australia and spending time at Citigroup and Bank of America Merrill Lynch. Vetch is currently Global Head of Markets Compliance and Operational Risk Control at UBS. Following this appointment, **Richard Brearley**, currently Regional Head of Compliance, EMEA will move into the Chief Executive's office to focus on regulatory projects on behalf of Macquarie in EMEA.

• Flybe has released that **Christine Ourmières-Widener** has decided to step down from her role as Chief Executive Officer of Flybe Limited on July 15, 2019, following the successful sale of the business to Connect Airways. The Company expects to announce a successor before Ourmières-Widener's departure to ensure a smooth handover.

Luís da Silva

• CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing, has announced the latest addition to its global commercial team; **Luís da Silva** has been appointed as Head of Commercial, the Americas. Da Silva has over two decades of experience in aviation and aircraft leasing, with his career predominantly focused on marketing and sales activities in Latin America and the Caribbean. Prior to CDB Aviation, he served as Senior Vice President and Regional Manager Latin America for GECAS. Previously, he held senior sales positions within Airbus, based in both Toulouse and Miami, where he cultivated the manufacturer's relationships with airlines in Latin America. De Silva started his career as a network planning analyst at DHL Worldwide Network. He will be based in the company's Luís Americas headquarters located in Fort Lauderdale and will report to Patrick C. Hannigan.

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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 Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581

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

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	**Sale / Lease**	**Company**	**Contact**	**Email**	**Phone**
CF34-10E5A1	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@werneraero.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@werneraero.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 Krys	rkrys@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

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@werneraero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers,Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
APUs (2) 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@Werneraero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werneraero.com	+1 201-661-6804
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368